

File CG2430 E15

# 2015 Third Quarter Monitoring and Sampling Report

Hounsfield Heights - Briar Hill  
Community  
Calgary, Alberta

Clifton Associates





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**17 February 2016**

Attention: Mr. Wayne E. Prada wprada@sears.ca  
Company: Sears Canada Inc.  
Address: Department 702 C E Real Estate, 290 Yonge Street  
Toronto, Ontario M5B 2C3

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**2015 Third Quarter Monitoring and Sampling Report  
Hounsfeld Heights – Briar Hill Community  
Calgary, Alberta****File CG2430 E15**

This report documents the third quarter monitoring and sampling event, which was carried out between 3 and 24 September 2015. A Site and Surrounding Properties map is provided as Figure 1.

**General Site Description**

1614 – 14 <sup>th</sup> Avenue NW NE ¼ 20-024-01-W5M	
Type of Site	Former Service Station and Automotive Centre
Site land use	Commercial and Residential/Parkland
Site Status	Decommissioned

**Site History**

The Kal-Tire Automotive Centre, located at 1614 – 14<sup>th</sup> Avenue NW, was originally developed as a service station and automotive centre in 1958 (Figure 1). The service station was located at the North Hill Shopping Centre on a property owned by Sears, and operated as a Sears Service Centre from 1958 to 1984. From 1984 to 1995, the location was operated under license as a Sunoco Service Station. An addition to the automotive centre building was constructed in 1982, and a separate gas bar kiosk was added in 1989. The original USTs were replaced in 1984, and in October 1995, fuel storage and dispensing facilities at the gas bar were decommissioned. The former Sears Service Centre continues to operate under license to Kal-Tire Automotive Centre.

Numerous environmental site assessments characterizing the petroleum hydrocarbon impacts have been conducted. A summary of the historic environmental reports is available in the Site Management Plan (SMP) completed by Clifton on 11 July 2014, entitled *Updated Site Management Plan (2014) Final Version Hounsfield Heights – Briar Hill Community, Calgary, Alberta* (Updated (2014) SMP). A summary of recent environmental reports is available in the subsurface investigation completed by Clifton on 22 January 2016, entitled *Subsurface Investigation Hounsfield Heights – Briar Hill Community, Calgary, Alberta* (2015 Subsurface Investigation).

The monitoring and sampling results from the first quarter are included in the 2015 Subsurface Investigation report.

The 2015 Subsurface Investigation identified five distinct stratigraphic units across the Site. Unit 1 (upper silty sand), Unit 2 (upper clayey silt), and Unit 3 (middle sandy silt) have all been identified in previous investigations. Unit 4, a lower clayey silt, and Unit 5, a lower silty sand and gravel, were identified during the investigation of the southern portion of the Site. These Units will be referred to during the discussion of contamination in the report.

A list of the acronyms mentioned in the text is provided at the end of the report.

### **Purpose and Scope of Work**

Previous environmental work, including the Updated (2014) SMP and the 2015 Subsurface Investigation report identified the presence of petroleum hydrocarbon impacts on-Site. The Updated (2014) SMP proposed that a confirmatory groundwater monitoring and sampling program be undertaken to verify that the petroleum hydrocarbon plume in the groundwater is no longer expanding, and that the contaminant levels are below applicable Site guidelines. Following the Subsurface Investigation, the 2015 third quarter monitoring and sampling event is the third implementation of the confirmatory groundwater monitoring and sampling program. A map of monitoring wells included in this sampling program are shown in Figure 2.

The scope of work consisted of:

- Measuring field headspace vapours in monitoring wells;
- Measuring LNAPL thickness (if present) and depth of groundwater;
- Collecting a bulk groundwater sample for twenty-six existing monitoring wells on-Site;
- Collecting up to two discrete groundwater samples per monitoring well for fifty-five existing monitoring wells on-Site;
- Collecting a quality assurance/quality control (QA/QC) sample from every ten collected samples;
- Submitting groundwater samples from eighty-one monitoring wells for laboratory analysis of BTEX, PHC fractions F1 and F2, and VOCs;
- Submitting groundwater samples from twenty-four monitoring wells for laboratory analysis of PAHs; and,
- Comparing the results to the Alberta Environment and Parks, May 2014, *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (AEP 2014 Tier 1 Guidelines).

### **Applicable Guidelines**

Laboratory analytical results of groundwater samples were compared to the AEP 2014 Tier 1 Guidelines for either residential/parkland land use or commercial land use for coarse-grained soil, depending on the sampling location.

**Discrete Groundwater Sampling**

Clifton collected discrete groundwater samples from the 1.52 meter (5 foot) interval with the highest concentration identified in the second quarter sampling event. For wells with non-detectable concentrations, an interval was sampled from approximately the middle of the screen. Discrete HYDRASleeve™ samples were collected for fifty-five existing monitoring wells on-Site.

**AEP Comparison of Bailer and HydraSleeve Analytical Results**

Five discrete samples were compared against a bulk sample collected with a dedicated, disposable bailer for the same well.

A comparison and discussion of these results has been appended as Appendix A.

**General Monitoring Program Information**

Monitoring Program Details	
Current monitoring date	1-2, 15 September 2015
Previous monitoring date	9, 17 June 2015
Monitoring schedule	Quarterly
Next scheduled monitoring date	November 2015
Number of monitoring wells currently present on-Site (Mall area)	24
Number of monitoring wells currently present on-Site (Hounsfeld Heights area)	77
Total number of monitoring wells monitored on-Site	101

Fluid Level Measurements (see Table 1)					
Water level measurement instrument:		Heron Interface Oil/Water Meter			
Groundwater elevation (m above Msl)		1086.41 (BH1905)	to	1062.29m (BH1946)	
Apparent local groundwater flow direction	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
	W	S/SE	S/SE	S/SE	S/SE
Dry monitoring wells		BH1909, BH1920, BH1931, BH1932, BH1938, BH1949, BH1960, BH1965, BH1968, BH1969, BH1970, BH1973, BH1975, BH1986, BH1987, BH1988			
Comments		None			

LNAPL	
Monitoring wells showing LNAPL	BH1704
Previous monitoring wells indicating LNAPL	None
Current LNAPL thickness	unknown
Previous LNAPL thickness	Not detected

<b>Standpipe Vapour Screening (see Table 1)</b>	
Vapour measurement instrument	RKI Eagle 2 OVA gas monitor with PID
Current hexane vapour concentrations	0 ppm to >11,100 ppm
Monitoring wells with hexane vapour concentrations >11,100 ppm	BH1902, BH1907, BH1915, BH1924, BH1970, and BH1984
Current isobutylene vapour concentrations	0 ppm to >2,000 ppm
Monitoring wells with isobutylene vapour concentrations >2,000 ppm	BH1907, BH1915, BH1970, BH1984, and BH1704
Comments	None

<b>Monitor Well Purging</b>	
Purging method	Dedicated Disposable Bailer
Monitoring wells purged using a dedicated disposable bailer	BH1905, BH1914, BH1916, BH1934, BH1935, BH1939, BH1944, BH1945, BH1946, BH1947, BH1950A, BH1951, BH1962, BH1964, BH1967, BH1972, BH1974, BH1978, BH1979, BH1980, BH1982, BH1701, EX1, EX2, EX3, EX6
Maximum volume removed from monitoring well	57 L (BH1962)
Minimum volume removed from monitoring well	Dry (BH1909, BH1920, BH1931, BH1932, BH1938, BH1949, BH1960, BH1965, BH1968, BH1969, BH1970, BH1973, BH1975, BH1986, BH1987, BH1988)
Comments	None

Sampling Summary	
Groundwater sampling method	Disposable Bailer or HYDRASleeve™
Number of monitoring wells sampled with a dedicated disposable bailer	26
Number of monitoring wells sampled using the no-purge HYDRASleeve™ method	55
Samples submitted to	AGAT Laboratories Ltd., Calgary, Alberta

Analysis Package	Reference Table
BTEX and PHC fractions F1 – F2	Table 2
PAHs	Table 3
VOCs	Table 4

**QA/QC Program**

QA/QC Results (Table 5 – Table 11)	
Trip Blank Samples	
Reference Table	Trip blank results are below RDL:
Table 5	Yes
Equipment Blank Samples	
Reference Tables	Equipment blank results are below RDL
Table 6 (BTEX and PHC fractions F1-F2)	No
Table 7 (PAHs)	No
Table 8 (VOCs)	No
Field Duplicate Samples	
Reference Tables	Duplicate samples <80% RPD:
Table 9 (BTEX and PHC fractions F1-F2)	Yes
Table 10 (PAHs)	Yes
Table 11 (VOCs)	Yes

**Groundwater Sampling**

As part of the third quarter monitoring and sampling event, Clifton deployed HYDRASleeves™ (no-purge groundwater samplers) at 1.52 meter (5 ft) intervals in fifty-five (55) existing monitoring wells on-Site. The



HYDRASleeve™ samples were collected to try and confirm areas of laminar flow within the primary water-bearing unit, Unit 3, which were identified in the second quarter monitoring and sampling event. Upon completion of the discrete sampling, an additional bulk sample was collected from five wells using a dedicated, disposable bailer. A comparison and discussion of these results has been included as Appendix A.

### Results (see Table 2 to Table 4)

There were forty-four (44) groundwater monitoring wells with concentrations below applicable AEP 2014 Tier 1 Guidelines for BTEX and PHC fractions F1-F2, eighteen (18) groundwater monitoring wells for PAHs, and fifty-three (53) for VOCs. Groundwater samples collected from the remainder of the wells monitored during this event exceeded the applicable AEP 2014 Tier 1 Guidelines for at least one parameter. The laboratory certificates of analysis are included in Appendix B.

### Discussion

#### *Groundwater Flow Direction*

The monitoring results from this event show that the interpreted groundwater flow direction from wells screened in Unit 1 is to the west (Figure 3). This is consistent with previous results, which indicate this surficial unit does not follow historic groundwater flow directions.

The interpreted groundwater flow direction from wells screened in Units 2, 3, 4, and the southern portion of Unit 5 is to the south – southeast (Figure 4 to Figure 7), which is consistent with previous results.

The interpreted groundwater flow direction for the northern portion of Unit 5 is inconclusive. Since several monitoring wells were dry during the monitoring and sampling event, there were not enough monitoring points to determine the groundwater flow direction.

#### *Groundwater Chemistry - Monitoring Wells*

The results of the groundwater sampling show elevated BTEX, PHC fractions F1 and F2, 1,2-dichloroethane, and naphthalene concentrations at multiple locations across the Site.

Benzene impacts continue to be observed across the Site, and act as a marker for other petroleum hydrocarbon (PHC) contamination, such as toluene, ethylbenzene, total xylenes, and PHC fractions F1 and F2 (Figure 8). Free product was reported in BH1704, although the LPH thickness is unknown. Concentrations of benzene ranged from below detection (<0.0005 mg/L) to a maximum of 10.7 mg/L (BH1982, Unit 3). The majority of the impacts are located in Unit 3. Impacts to Unit 1 were found in BH1905, located immediately adjacent to the reported source area. Three monitoring wells screened across Unit 2 were found to be impacted (BH1967, BH1971, and BH1974). There was only one exceedance in Unit 4 at BH1939. An exceedance was also noted in BH1943, which is screened across both Unit 4 and Unit 5. A benzene exceedance was reported for the first time in three boreholes (BH1933, BH1954, and BH1984). Two boreholes that exceeded the AEP 2014 Tier 1 Guidelines in the second quarter monitoring event were found to be below guidelines during this event (BH1977 and BH1981).

PAH impacts were observed across the Site (Figure 9). Concentrations of PAH compounds B[a]P TPE, benzo[a]anthracene, and benzo[a]pyrene were above the AEP 2014 Tier 1 Guidelines in BH1905, after being below

guidelines in the second quarter monitoring event. Anthracene, fluoranthene, phenanthrene, and pyrene exceeded the applicable guidelines in both BH1905 and BH1704. Fluoranthene was also found in excess of the AEP 2014 Tier 1 Guidelines in BH1704. Concentrations of naphthalene, the primary PAH compound found on-Site, ranged from below detection ( $<0.00001$  mg/L) to 0.860 mg/L (BH1704, Unit unknown). The majority of PAH impacts were observed in Unit 3. The highest concentration in a known unit was in BH1905 (Unit 1). BH1971, screened across Unit 2, was also impacted by PAHs.

The main VOC compound identified on-Site, 1,2-dichloroethane (1,2-DCA) continues to be found across the Site (Figure 10). Concentrations of 1,2-DCA on-Site ranged from below detection ( $<0.001$  mg/L) to 0.198 mg/L (BH1928, Unit 3). The majority of the 1,2-DCA exceedances were encountered in Unit 3. Only one borehole screened across Unit 1 (BH1905) was found to be impacted. Three boreholes screened across Unit 2 (BH1967, BH1971, and BH1974) were also found to be impacted. 1,2-DCA was also found in BH1939 (Unit 4), and BH1943, which is screened across Unit 4 and Unit 5. Three boreholes (BH1922, BH1943, and BH1981) were found to exceed guidelines in the second quarter event, but were below guidelines in the third quarter.

Free product was encountered in BH1704, resulting in the detection limits for the VOC compounds being raised to levels greater than the AEP 2014 Tier 1 Guideline values. Therefore, it is unclear as to whether or not the groundwater below the free product in this well is impacted.

#### *Equipment Blank Samples*

Equipment blank samples were obtained by completing a double rinse of the equipment with commercially available de-ionized water. Water from the second rinse was collected in laboratory provided containers with zero headspace.

All equipment blank samples submitted for PAHs and VOCs were returned with detectable concentrations of naphthalene and chloroform. Chloroform is a byproduct of the chlorination of drinking water and waste water in municipalities to destroy bacteria. Its presence in the equipment blank may be due to the origin of the water used in the blank, or preparation of the container for the blank. The source of the naphthalene is unclear at this time, but was likely introduced by an outside source. The reported values were at least four times the reportable detection limit, but still below the AEP 2014 Tier 1 Guidelines. These concentrations are not considered acceptable.

De-ionized water is not considered to be organic-free water, and therefore is not appropriate for use when sampling for PAHs or VOCs. The de-ionized water system will not fully remove concentrations of VOCs commonly found in tap water, and has the potential to produce false readings for VOC analyses.

Clifton is conducting an internal investigation into the origin of these compounds in the de-ionized water used on-Site.

**Conclusions**

The results of the monitoring and sampling event suggest that the full extent of the petroleum hydrocarbon plume in the groundwater is not yet fully defined. Impacts are still present throughout the Site above applicable AEP 2014 Tier 1 Guidelines.

The impacts have not been vertically delineated, and the horizontal delineation of the impacts is incomplete to the east and southwest.

There is the potential presence of a second source area located off-Site as indicated by elevated concentrations of BTEX, PAH, and VOC parameters up-gradient or cross-gradient to the groundwater flow direction from the identified source area.

**Recommendations**

At this time, our recommendations are as follows:

- Advance additional boreholes in the southwest corner of the Site, and at the intersection of 15<sup>th</sup> Street NW and 11<sup>th</sup> Avenue NW to delineate the extent of the contamination to the southwest and east of the current network of monitoring wells;
- Advance additional deep boreholes on the southern portion and northwestern corner of the Site to characterize the interface between the lower strata, and define the additional units located below the previously defined lower clay unit; and,
- Advance additional boreholes along 13<sup>th</sup> Avenue NW and south of the LRT line in the northwestern portion of Lion's Park to identify a potential second source of contamination migrating on to Site.

**Acronym List**

AEP	Alberta Environment and Parks
AESRD	Alberta Environment and Sustainable Resource Development
Clifton	Clifton Associates Ltd.
EC	electrical conductivity
ESA	environmental site assessment
BTEX	benzene, toluene, ethylbenzene, and xylenes
LNAPL	light non-aqueous phase liquid
LPH	liquid petroleum hydrocarbon
Msl	mean sea level
N/A	not applicable
ORC	oxygen release compound
OVA	organic vapour analyser
PAH	polycyclic aromatic hydrocarbon
PHC	petroleum hydrocarbon
PID	photo ionization detector
RDL	reportable detection limit
RMP	risk management plan
ROW	right-of-way
RPD	relative percent difference, (difference of concentrations/mean of concentrations x100)
TBD	to be determined
TDS	total dissolved solids
UST	underground storage tank
VOC	volatile organic compound

**Appendices: Figures**

Figure 1	Site Location and Surrounding Land Use Plan
Figure 2	Groundwater Sampling Location
Figure 3	Potentiometric Surface – Unit 1
Figure 4	Potentiometric Surface – Unit 2
Figure 5	Potentiometric Surface – Unit 3
Figure 6	Potentiometric Surface – Unit 4
Figure 7	Potentiometric Surface – Unit 5
Figure 8	Groundwater Exceedances – Petroleum Hydrocarbons
Figure 9	Groundwater Exceedances – PAHs
Figure 10	Groundwater Exceedances – VOCs

**Tables**

Table 1	Summary of Well Monitoring
Table 2	Summary of Groundwater Laboratory Analyses – BTEX and PHC fractions F1-F2
Table 3	Summary of Groundwater Laboratory Analyses – PAHs
Table 4	Summary of Groundwater Laboratory Analyses – VOCs
Table 5	Summary of Groundwater Laboratory Analyses – QA/QC – Trip Blank - VOCs
Table 6	Summary of Groundwater Laboratory Analyses – QA/QC– Equipment Blank – BTEX and PHC fractions F1-F2
Table 7	Summary of Groundwater Laboratory Analyses – QA/QC– Equipment Blank – PAHs
Table 8	Summary of Groundwater Laboratory Analyses – QA/QC– Equipment Blank – VOCs
Table 9	Summary of Groundwater Laboratory Analyses – QA/QC – Field Duplicate – BTEX and PHC fractions F1-F2
Table 10	Summary of Groundwater Laboratory Analyses – QA/QC – Field Duplicate – PAHs
Table 11	Summary of Groundwater Laboratory Analyses – QA/QC – Field Duplicate – VOCs

**Appendix A – Comparison of Bailer and HydraSleeve Analytical Results**

Table A1	Summary of Groundwater Laboratory Analyses – BTEX and PHC fractions F1-F2
Table A2	Summary of Groundwater Laboratory Analyses – PAHs
Table A3	Summary of Groundwater Laboratory Analyses – VOCs

**Appendix B**

AGAT Laboratories Certificates of Analysis

**Closure**

This report was prepared by Clifton Associates Ltd. for the account of Sears Canada Inc. The material in it reflects Clifton Associates Ltd. best judgment available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Clifton Associates Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Our conclusions and recommendations are preliminary and based upon the information obtained from the referenced subsurface exploration. The Site monitoring and associated laboratory testing indicate subsurface, groundwater and chemical conditions only at the specific locations and times investigated, only to the depth penetrated and only for the soil and chemical properties tested. The subsurface conditions may vary between the investigation points and with time. The subsurface interpretation provided is a professional opinion of conditions and not a certification of the site conditions. The nature and extent of subsurface variation may not become evident until construction or further investigation. If variations or other latent conditions do become evident, Clifton Associates Ltd. should be notified immediately so that we may re-evaluate our conclusions and recommendations.

This report has been prepared in accordance with generally accepted engineering practice common to the local area. No other warranty, expressed or implied is made.

No environmental site investigation or remediation can wholly eliminate uncertainty regarding environmental conditions in connection with a property. This investigation is intended to reduce, but not eliminate the uncertainty regarding environmental conditions. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site and beneath structures are of the same quality as those sampled. Further, contamination could also exist in forms not indicated by the investigation. The work was based in part upon the environmental quality guidelines and regulations in effect when the work was begun. Future regulatory changes may require reassessment of the findings of this investigation.



**Terryn Kuzyk, EIT**  
**Environmental Engineer**

**Association of Professional Engineers  
and Geoscientists of Alberta**  
**Permit to Practice P4823**



**Claude David, PEng, PGeo, PMP**  
**Director, Environmental Sciences**

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# Clifton Associates

## Figures

### Clifton Associates

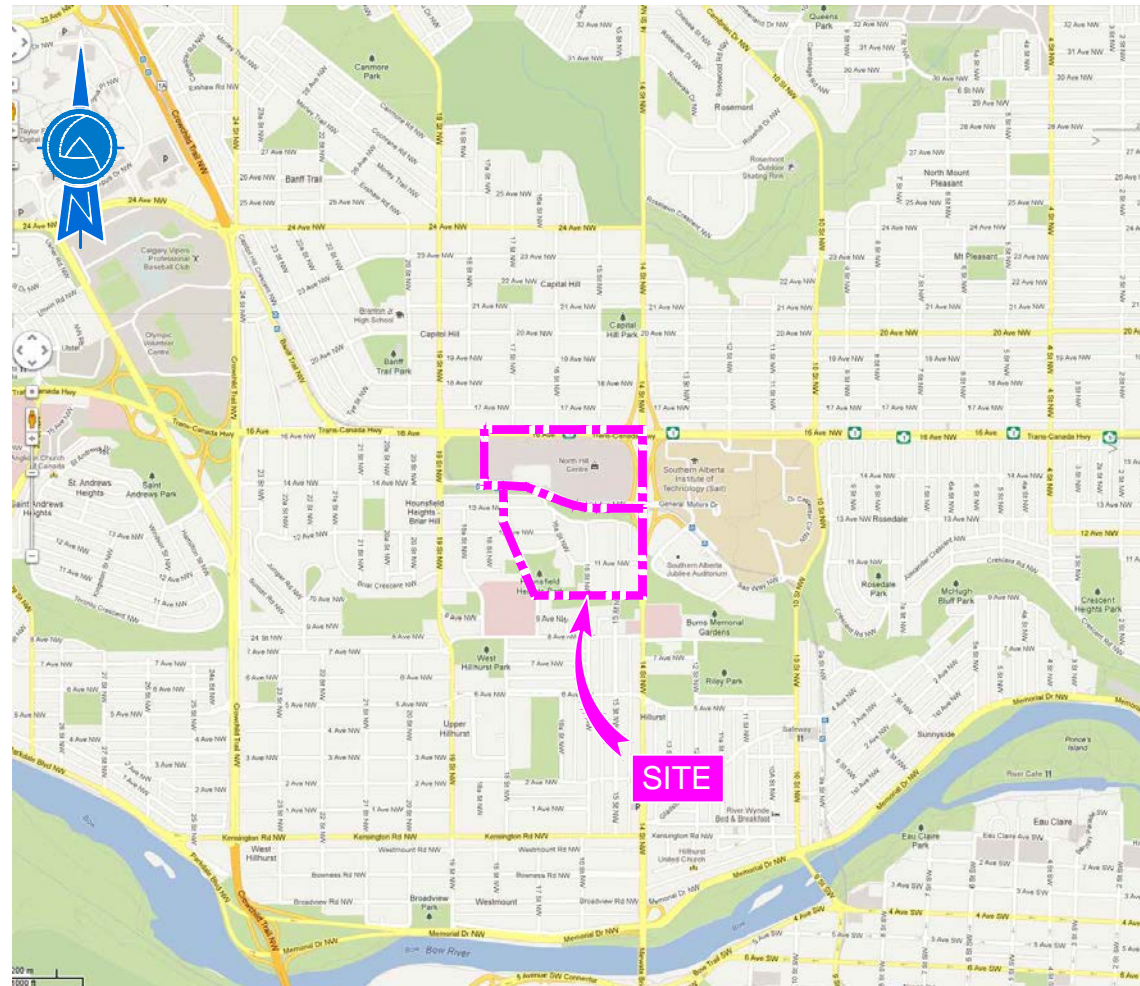


#### Calgary Office

2222 30th Avenue NE  
Calgary, Alberta T2E 7K9

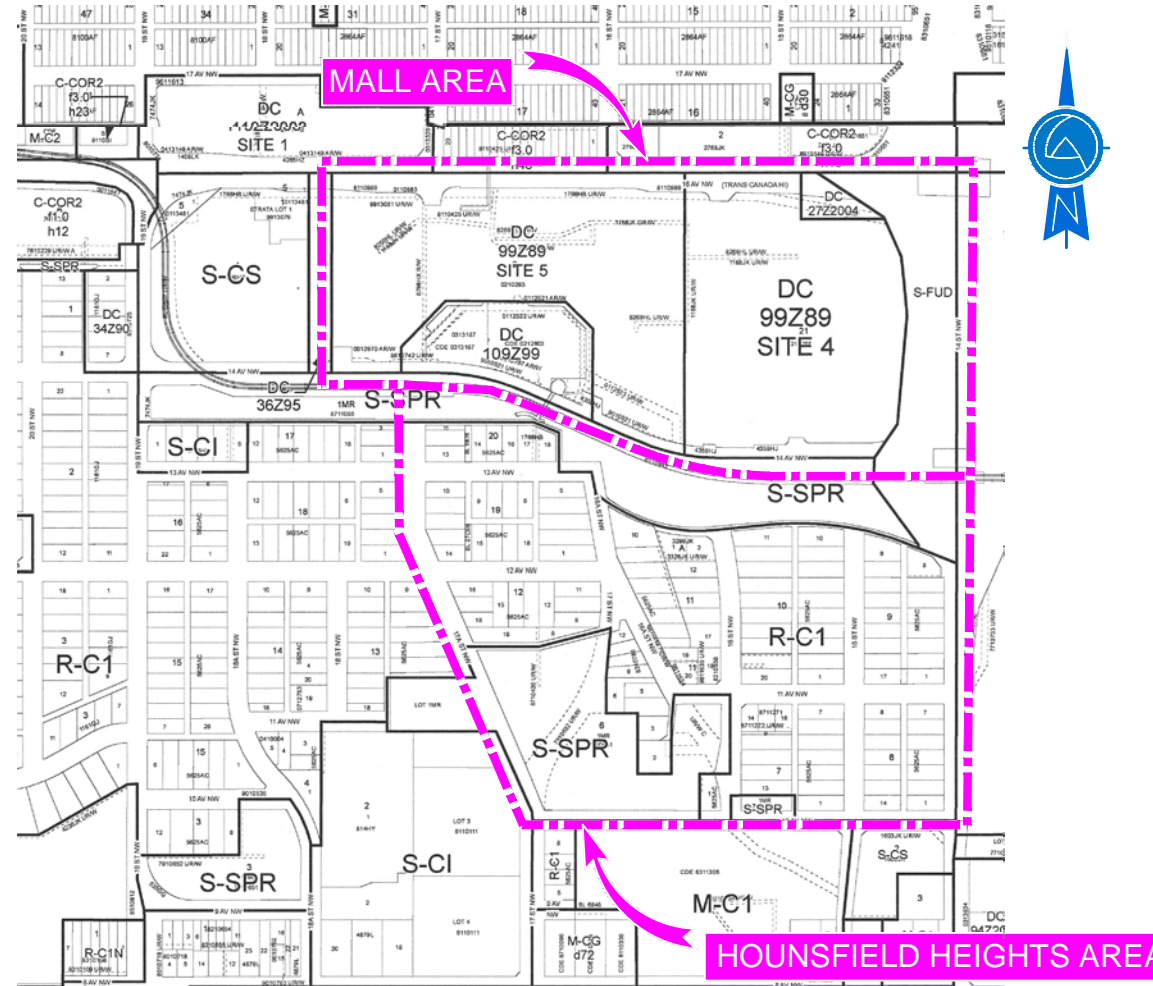
T (403) 263 2556  
F (403) 234 9033

[calgary@clifton.ca](mailto:calgary@clifton.ca)  
[www.clifton.ca](http://www.clifton.ca)



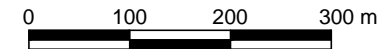
**GENERAL SITE LOCATION**

SCALE 1:30,000



**SURROUNDING LAND USE**

SCALE 1:10,000



**LEGEND:**

SITE BOUNDARY	
CITY OF CALGARY BY-LAW ZONING	
<b>LAND USE DISTRICTS:</b>	
RESIDENTIAL - CONTEXTUAL ONE DWELLING DISTRICT	R-C1
MULTI-RESIDENTIAL - CONTEXTUAL LOW-PROFILE DISTRICT	MC-1
MULTI-RESIDENTIAL - CONTEXTUAL GRADE-ORIENTED DISTRICT	MC-G
COMMERCIAL - CORRIDOR 2 DISTRICT	C-COR2
SPECIAL PURPOSE - SCHOOL, PARK, AND COMMUNITY RESERVE DISTRICT	S-SPR
SPECIAL PURPOSE - COMMUNITY INSTITUTION DISTRICT	S-CI
SPECIAL PURPOSE - COMMUNITY SERVICE DISTRICT	S-CS
SPECIAL PURPOSE - FUTURE URBAN DEVELOPMENT DISTRICT	S-FUD
DIRECT CONTROL DISTRICT	DC

**NOTES:**

1. CITY OF CALGARY ROAD MAP PROVIDED BY CANADIAN CARTOGRAPHICS CORPORATION, 2012.
2. LAND USE MAP PROVIDED BY THE CITY OF CALGARY.

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**SEARS** Canada Inc.

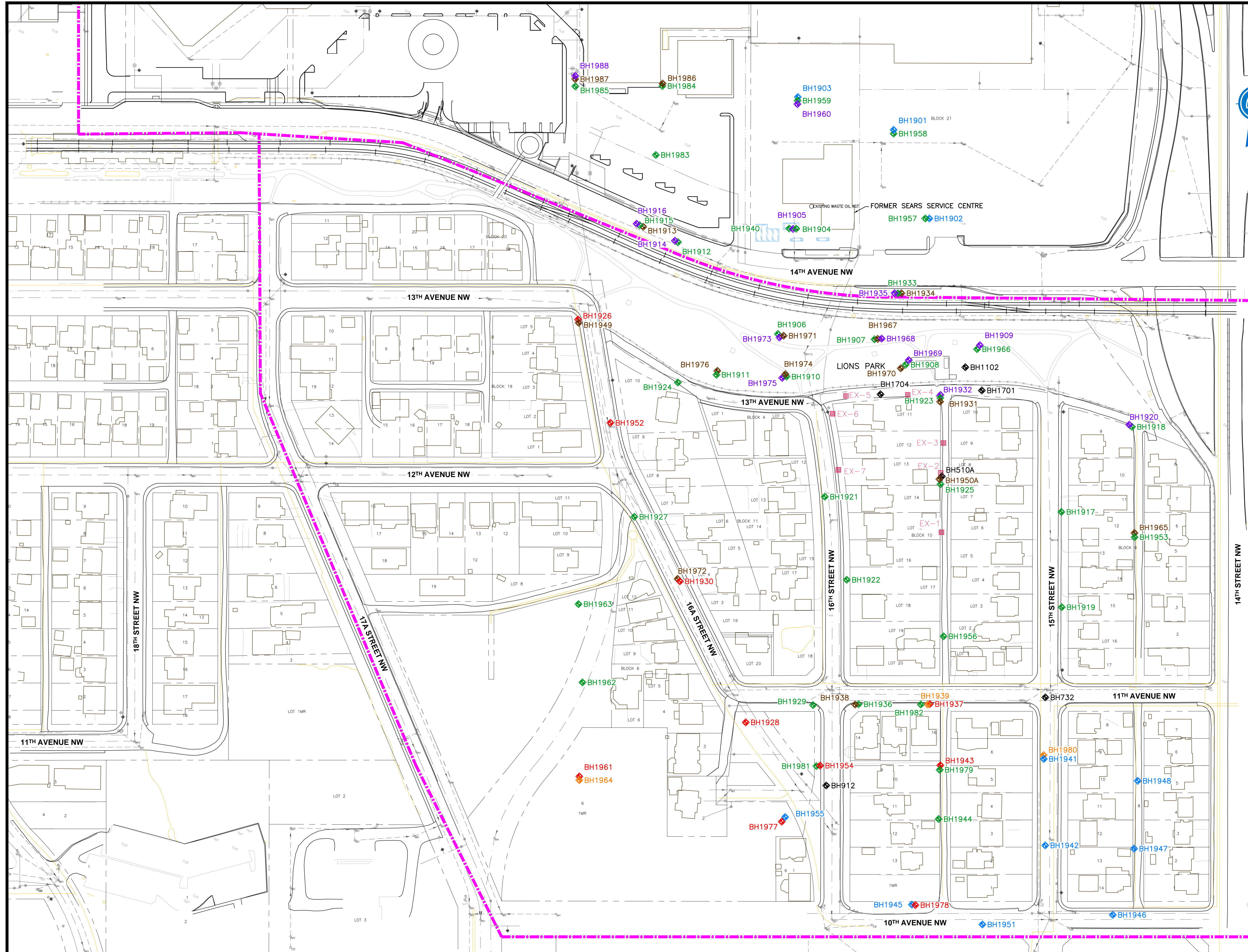
PROJECT  
 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE  
**SITE LOCATION AND SURROUNDING LAND USE PLAN**

DESIGNED	SCALE	AS SHOWN	DATE	2016-01-13
DRAWN	RD	PROJECT NO.	CG2430 E09	FIG.
CHECKED	FILE NO.	CG2430-E15-01		1

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**LEGEND**

- SITE BOUNDARY
- PRE-EXISTING MONITORING WELL
- EXTRACTION WELL
- LRT TRACKS
- FENCE LINE
- LEGAL LINE
- FORMER FACILITY/FEATURE
- BUILDING
- MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND
- MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT
- MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL
- MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA

**UTILITY LINES & SYMBOLS**

- NATURAL GAS LINE
- SANITARY SEWER
- STORM SEWER
- WATER
- CATCH BASIN
- FIRE HYDRANT
- LIGHT STANDARD
- MANHOLE
- UTILITY POLE



**NOTES:**  
 1 DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING UG UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEAR'S ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.



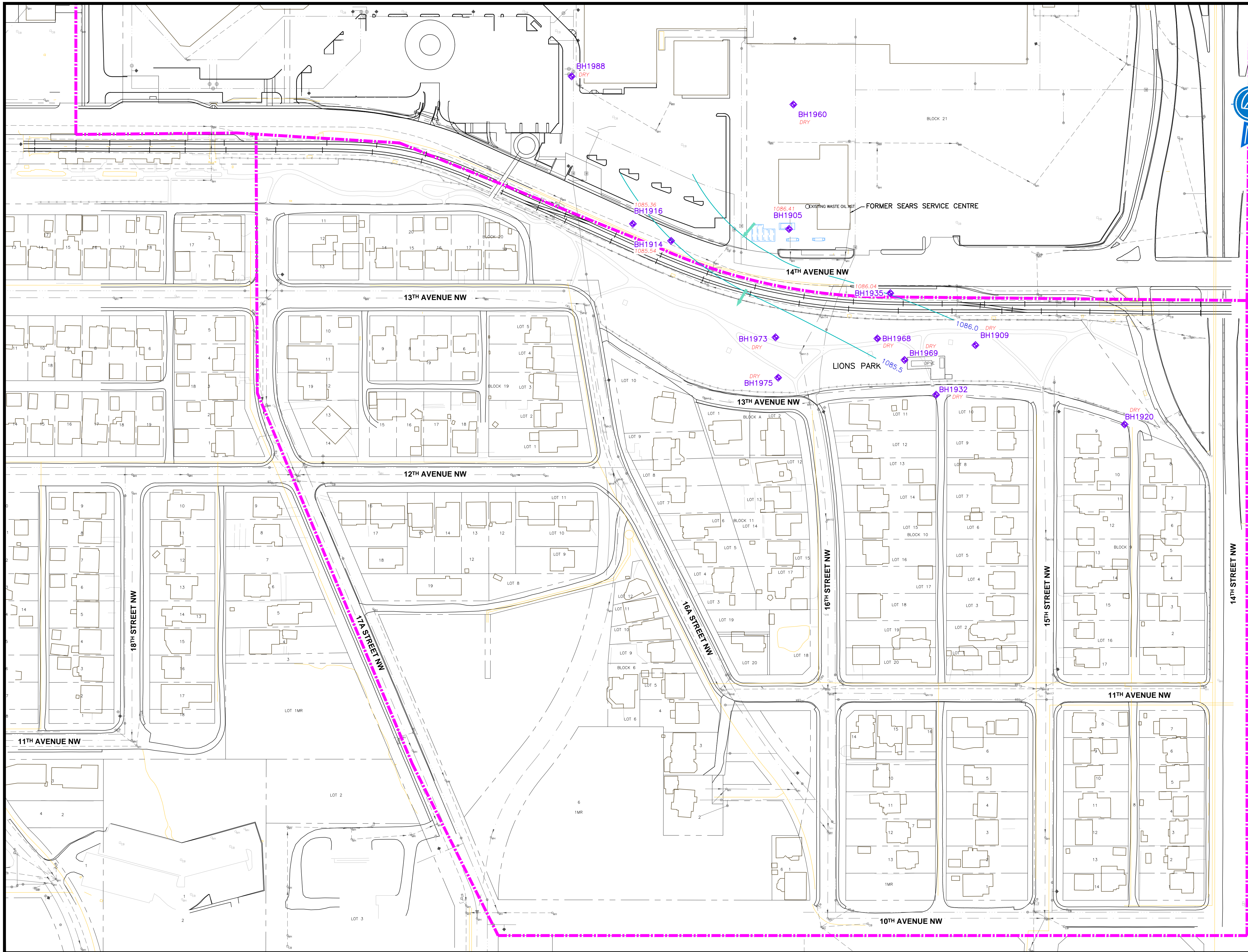
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CLIENT **SEARS Canada Inc.**

PROJECT 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE **GROUNDWATER SAMPLING LOCATIONS**

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	2016-01-13
CHECKED	FILE NO.	CG2430-E15-02
		<b>2</b>



**LEGEND**

SITE BOUNDARY	
PRE-EXISTING MONITORING WELL	
EXTRACTION WELL	
LRT TRACKS	
FENCE LINE	
LEGAL LINE	
FORMER FACILITY/FEATURE	
BUILDING	
MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND	
MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT	
MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL	
MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA	
POTENTIOMETRIC CONTOUR	
POTENTIOMETRIC ELEVATION	
INTERPRETED DIRECTION OF GROUNDWATER FLOW	
<b>UTILITY LINES &amp; SYMBOLS</b>	
NATURAL GAS LINE	
SANITARY SEWER	
STORM SEWER	
WATER	
CATCH BASIN	
FIRE HYDRANT	
LIGHT STANDARD	
MANHOLE	
UTILITY POLE	

**NOTES:**  
 1. DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING U/G UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.



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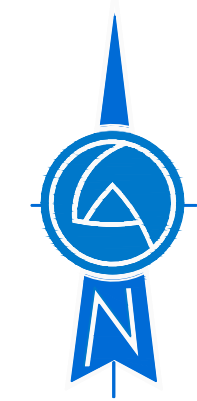
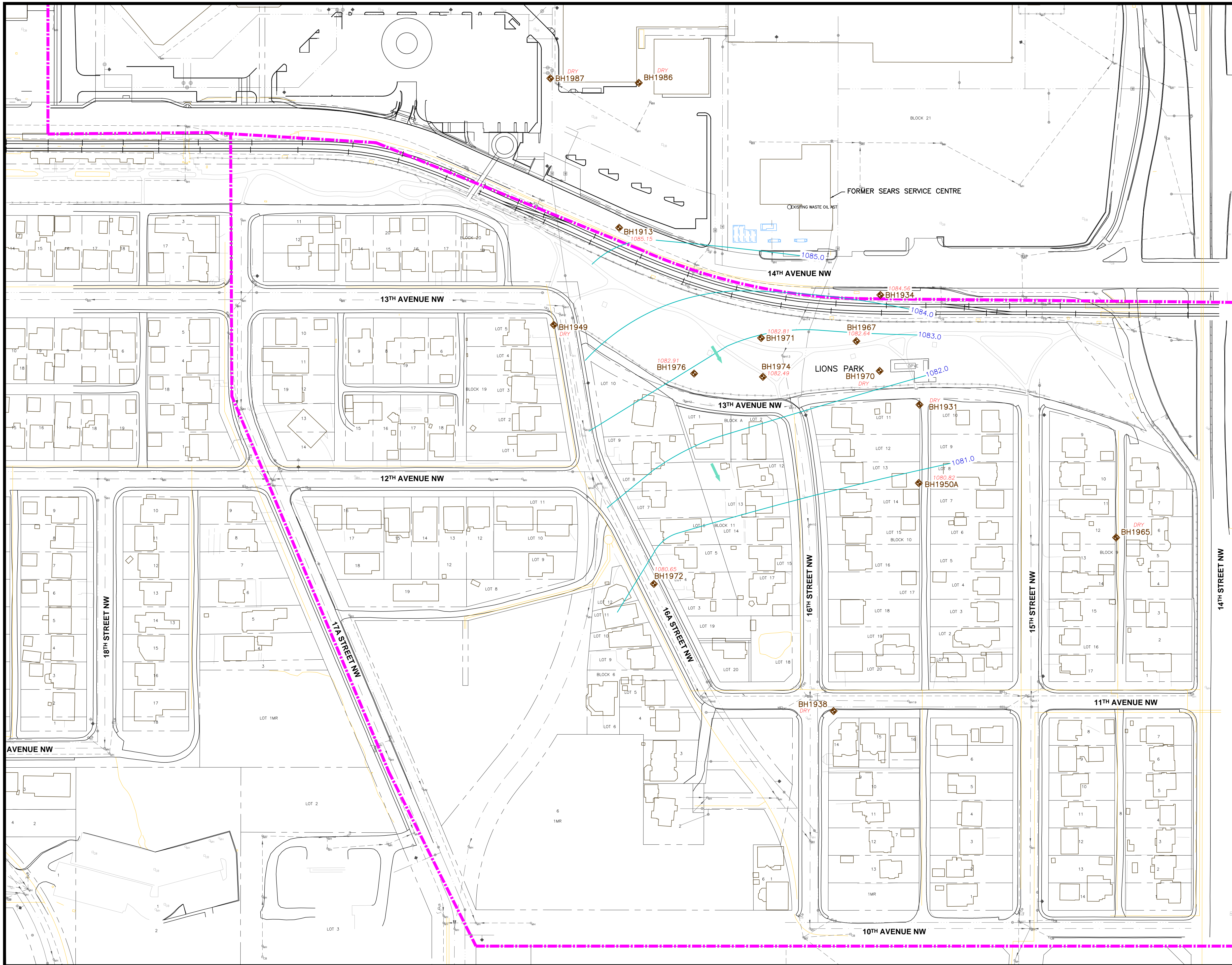
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PROJECT  
 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE  
 POTENTIOMETRIC SURFACE - UNIT 1

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	FIG.
CHECKED	FILE NO.	
	CG2430	3
	CG2430-E15-03	

2016-01-13 10:00 AM 1086.04



**LEGEND**

SITE BOUNDARY	
PRE-EXISTING MONITORING WELL	
EXTRACTION MONITORING WELL	
LRT TRACKS	
FENCE LINE	
LEGAL LINE	
FORMER FACILITY/FEATURE	
BUILDING	
MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND	
MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT	
MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL	
MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA	
POTENTIOMETRIC CONTOUR	
POTENTIOMETRIC ELEVATION	1082.0
INTERPRETED DIRECTION OF GROUNDWATER FLOW	

**UTILITY LINES & SYMBOLS**

NATURAL GAS LINE	
SANITARY SEWER	
STORM SEWER	
WATER	
CATCH BASIN	
FIRE HYDRANT	
LIGHT STANDARD	
MANHOLE	
UTILITY POLE	

**NOTES:**  
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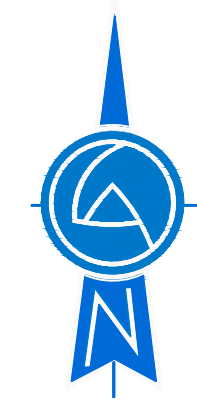
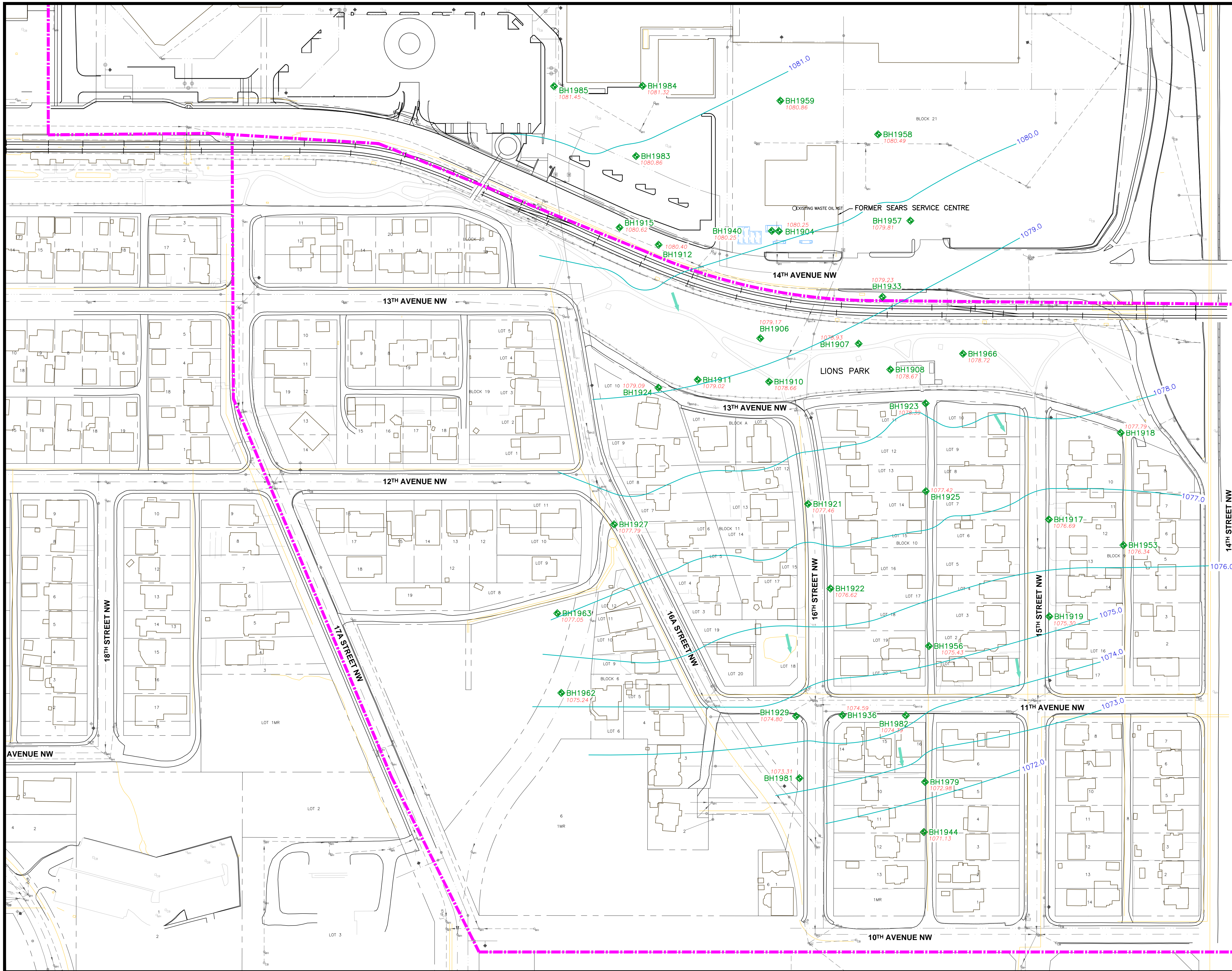
CLIENT  
 SEARS Canada Inc.

PROJECT  
 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE  
 POTENTIOMETRIC SURFACE - UNIT 2

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	2016-01-13
CHECKED	FILE NO.	CG2430
		4
		CG2430-E15-04

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**LEGEND**

SITE BOUNDARY	
PRE-EXISTING MONITORING WELL	
EXTRACTION WELL	
LRT TRACKS	
FENCE LINE	
LEGAL LINE	
FORMER FACILITY/FEATURE	
BUILDING	
MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND	
MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT	
MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL	
MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA	
POTENTIOMETRIC CONTOUR	
POTENTIOMETRIC ELEVATION	1079.0
INTERPRETED DIRECTION OF GROUNDWATER FLOW	

**UTILITY LINES & SYMBOLS**

NATURAL GAS LINE	
SANITARY SEWER	
STORM SEWER	
WATER	
CATCH BASIN	
FIRE HYDRANT	
LIGHT STANDARD	
MANHOLE	
UTILITY POLE	

**NOTES:**

1. DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING U/G UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.



ENGINEER  
 Clifton Associates

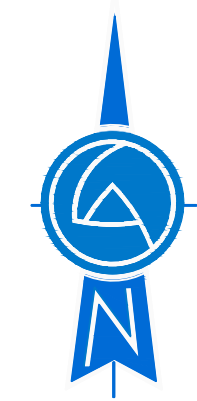
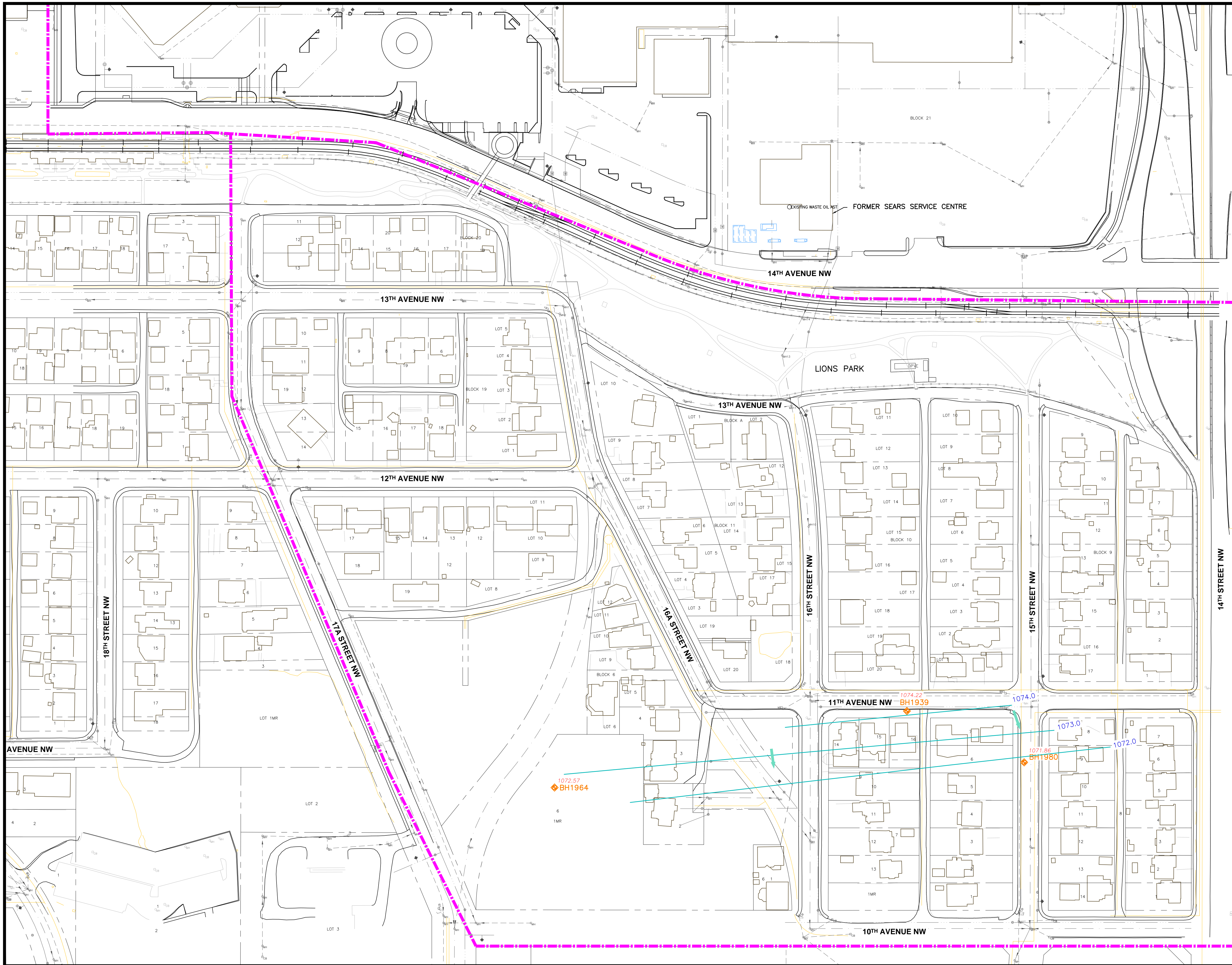
CLIENT  
 SEARS Canada Inc.

PROJECT  
 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE  
 POTENTIOMETRIC SURFACE-UNIT 3

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	1:1000
CHECKED	FILE NO.	CG2430
		2016-01-13
		FIG. 5
		CG2430-E15-05

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**LEGEND**

SITE BOUNDARY	
PRE-EXISTING MONITORING WELL	
EXTRACTION WELL	
LRT TRACKS	
FENCE LINE	
LEGAL LINE	
FORMER FACILITY/FEATURE	
BUILDING	
MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND	
MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT	
MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL	
MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA	
POTENTIOMETRIC CONTOUR	
POTENTIOMETRIC ELEVATION	1074.0
INTERPRETED DIRECTION OF GROUNDWATER FLOW	

**UTILITY LINES & SYMBOLS**

NATURAL GAS LINE	
SANITARY SEWER	
STORM SEWER	
WATER	
CATCH BASIN	
FIRE HYDRANT	
LIGHT STANDARD	
MANHOLE	
UTILITY POLE	

**NOTES:**  
 1. DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING U/G UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.



ENGINEER  
 Clifton Associates

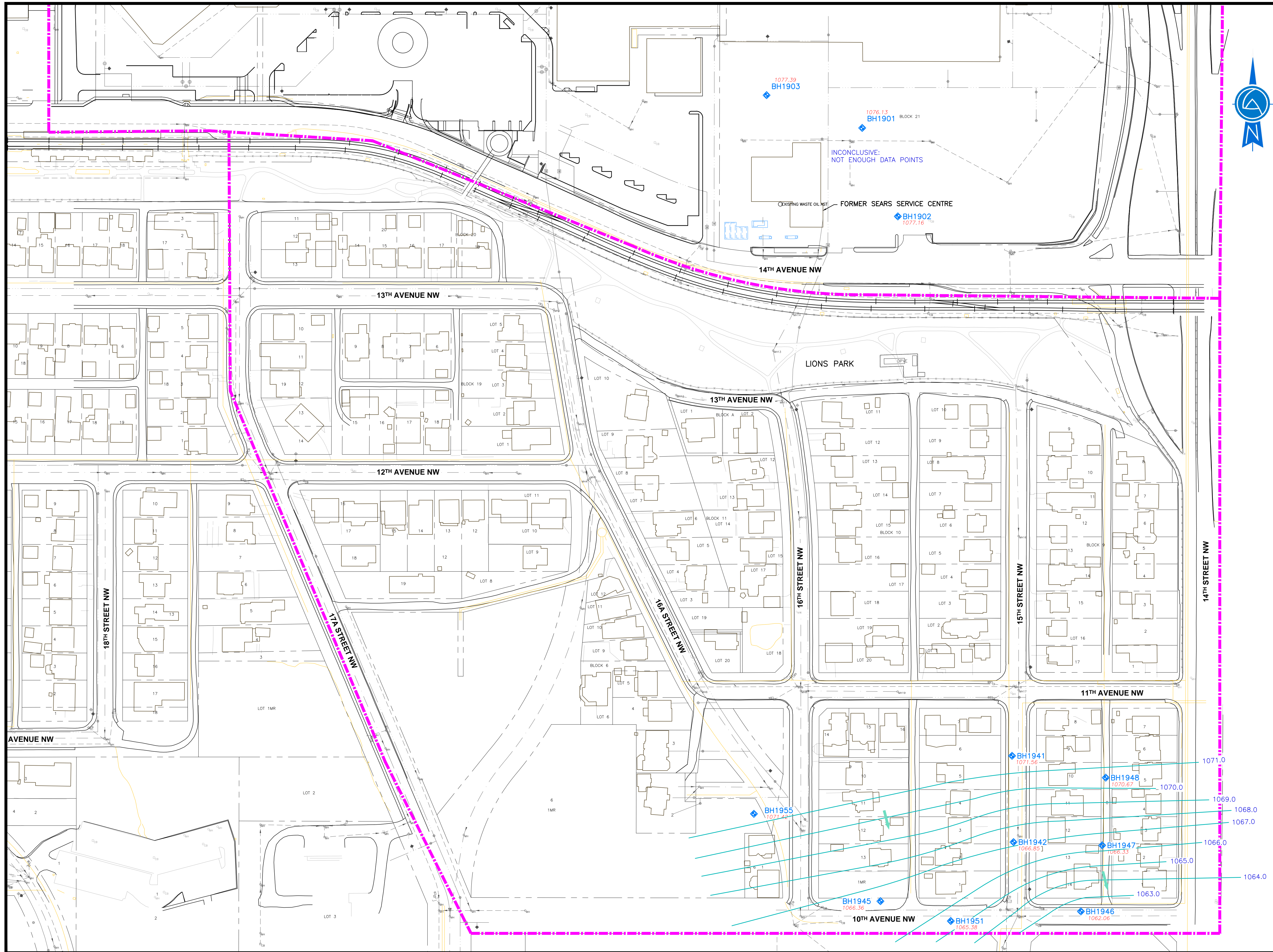
CLIENT  
**SEARS Canada Inc.**

PROJECT  
 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE  
**POTENTIOMETRIC SURFACE-UNIT 4**

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	1:1000
CHECKED	FILE NO.	CG2430
		2016-01-13
		6
		CG2430-E15-06

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**LEGEND**

SITE BOUNDARY	
PRE-EXISTING MONITORING WELL	
EXTRACTION WELL	
LRT TRACKS	
FENCE LINE	
LEGAL LINE	
FORMER FACILITY/FEATURE	
BUILDING	
MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND	
MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT	
MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT	
MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL	
MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA	
POTENTIOMETRIC CONTOUR	
POTENTIOMETRIC ELEVATION	1079.450
INTERPRETED DIRECTION OF GROUNDWATER FLOW	

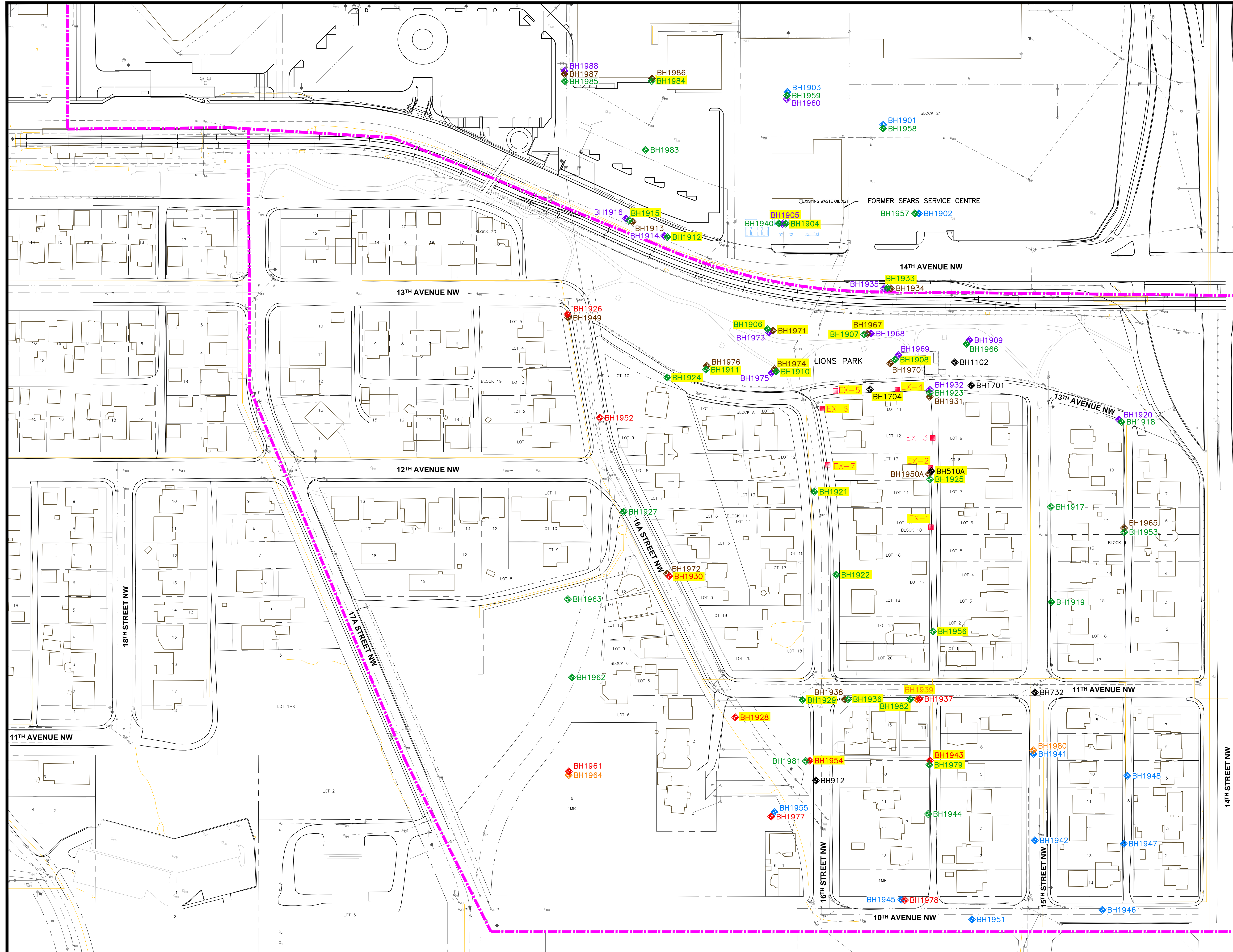
**UTILITY LINES & SYMBOLS**

NATURAL GAS LINE	
SANITARY SEWER	
STORM SEWER	
WATER	
CATCH BASIN	
FIRE HYDRANT	
LIGHT STANDARD	
MANHOLE	
UTILITY POLE	

**NOTES:**  
 1. DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING U/G UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.



ENGINEER		
CLIENT		
<b>SEARS Canada Inc.</b>		
PROJECT		
2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA		
TITLE		
POTENTIOMETRIC SURFACE-UNIT 5		
DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	FIG.
CHECKED	FILE NO.	
	CG2430	7
	CG2430-E15-07	



**LEGEND**

- SITE BOUNDARY
- PRE-EXISTING MONITORING WELL
- EXTRACTION WELL
- LRT TRACKS
- FENCE LINE
- LEGAL LINE
- FORMER FACILITY/FEATURE
- BUILDING
- MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND
- MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT
- MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL
- MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA
- EXCEEDS AEP 2014 TIER 1 GUIDELINES

**UTILITY LINES & SYMBOLS**

- NATURAL GAS LINE
- SANITARY SEWER
- STORM SEWER
- WATER
- CATCH BASIN
- FIRE HYDRANT
- LIGHT STANDARD
- MANHOLE
- UTILITY POLE

**ALBERTA ENVIRONMENT AND PARKS UNRESTRICTED LAND USE GUIDELINES: COARSE GRAINED SOIL**

PETROLEUM HYDROCARBONS		
AEP CRITERIA CATEGORY	RESIDENTIAL GUIDELINE (mg/L)	COMMERCIAL GUIDELINE (mg/L)
BENZENE	0.005	0.005
TOLUENE	0.021	0.021
ETHYLBENZENE	0.0024	0.0024
XYLENES	0.3	0.3
F1	0.81	2.2
F2	1.1	1.1

**NOTES:**

1 DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING UG UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.

0 10 20 30 40 50 m  
PLOT SIZE 22x34

ENGINEER: **Clifton Associates**

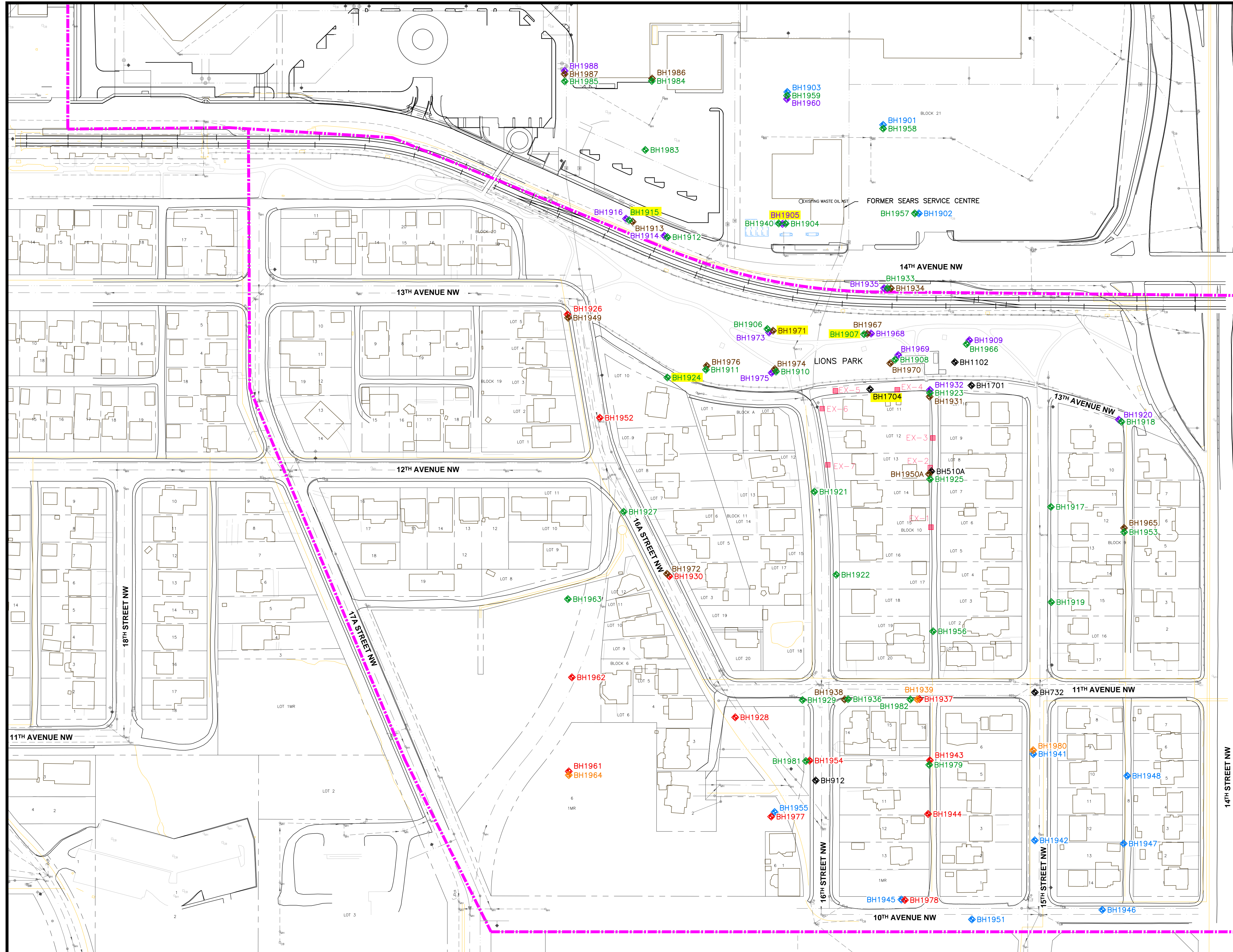
CLIENT: **SEARS Canada Inc.**

PROJECT: 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE: **GROUNDWATER EXCEEDANCES PETROLEUM HYDROCARBONS**

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	2016-01-13
CHECKED	FILE NO.	8

CG2430-E15-08



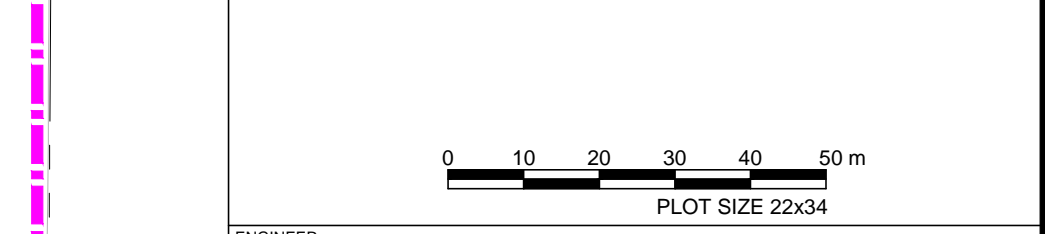
**LEGEND**

- SITE BOUNDARY
- PRE-EXISTING MONITORING WELL
- EXTRACTION WELL
- LRT TRACKS
- FENCE LINE
- LEGAL LINE
- FORMER FACILITY/FEATURE
- BUILDING
- MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND
- MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT
- MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL
- MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA
- EXCEEDS AEP 2014 TIER 1 GUIDELINES
- UTILITY LINES & SYMBOLS
- NATURAL GAS LINE
- SANITARY SEWER
- STORM SEWER
- WATER
- CATCH BASIN
- FIRE HYDRANT
- LIGHT STANDARD
- MANHOLE
- UTILITY POLE

**ALBERTA ENVIRONMENT AND PARKS UNRESTRICTED LAND USE GUIDELINES: COARSE GRAINED SOIL**

AEP CRITERIA CATEGORY	PAHs	
	RESIDENTIAL GUIDELINE (mg/L)	COMMERCIAL GUIDELINE (mg/L)
ANTHRACENE	0.00012	0.00012
NAPHTHALENE	0.001	0.001
PHENANTHRENE	0.0004	0.004
PYRENE	0.000025	0.00025
B[AP]TPE	0.00001	0.00001
BENZO[AP]PYRENE	0.000015	0.00015
BENZO[A]ANTHRACENE	0.000018	0.00018
FLUORANTHENE	0.00004	0.00004
FLUORENE	0.003	0.003

**NOTES:**  
 1 DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING UG UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.



ENGINEER: **Clifton Associates**

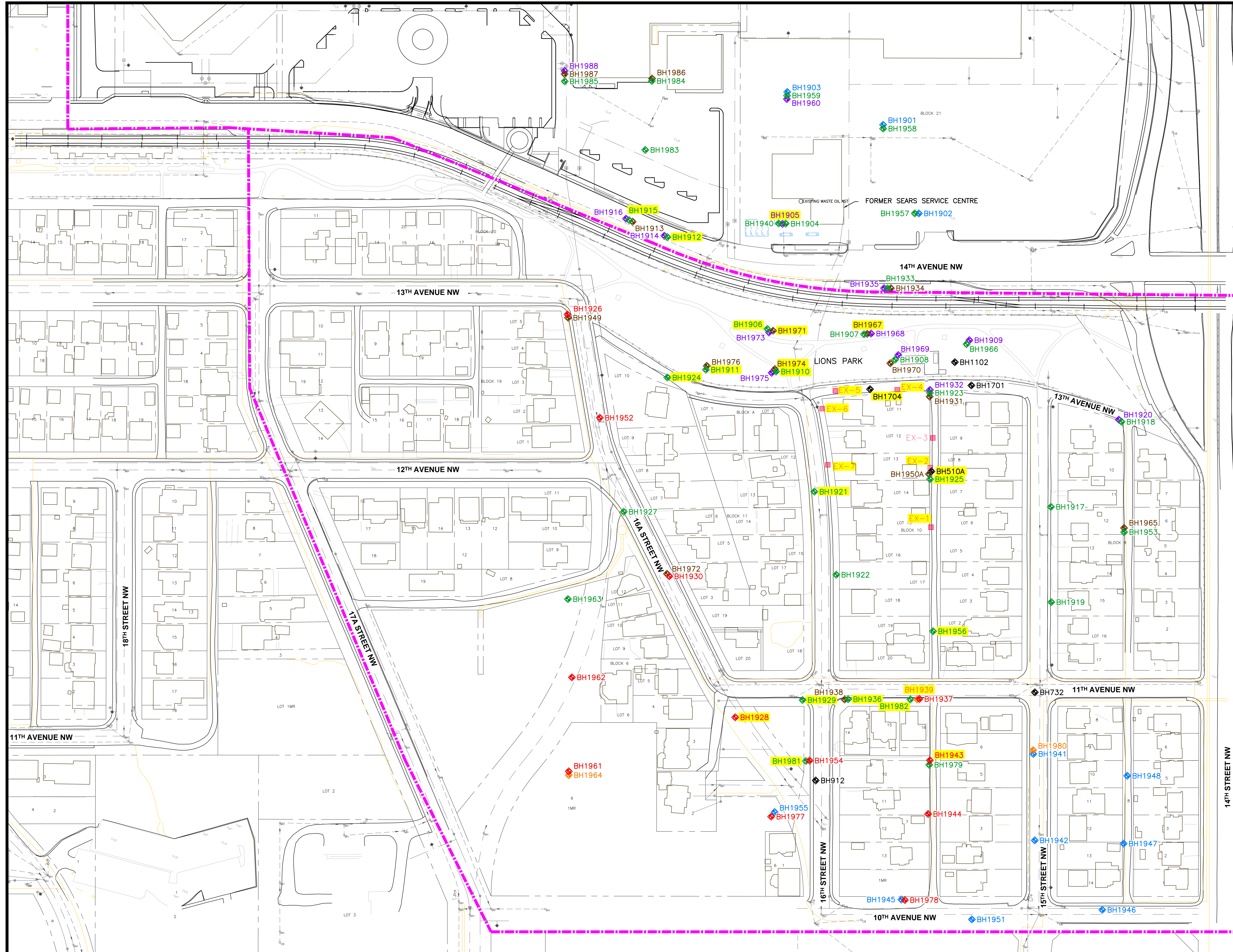
CLIENT: **SEARS Canada Inc.**

PROJECT: 2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE: **GROUNDWATER EXCEEDANCES - PAHs**

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	2016-01-13
CHECKED	FILE NO.	9
	CG2430-E15-09	





**LEGEND**

- SITE BOUNDARY
- PRE-EXISTING MONITORING WELL
- EXTRACTION WELL
- LRT TRACKS
- FENCE LINE
- LEGAL LINE
- FORMER FACILITY/FEATURE
- BUILDING
- MONITORING WELL SCREENED THROUGH UNIT 1 - UPPER SILTY SAND
- MONITORING WELL SCREENED THROUGH UNIT 2 - UPPER SILTY SAND
- MONITORING WELL SCREENED THROUGH UNIT 3 - MIDDLE SANDY SILT
- MONITORING WELL SCREENED THROUGH UNIT 4 - LOWER CLAYEY SILT
- MONITORING WELL SCREENED THROUGH UNIT 5 - LOWER SILTY SAND AND GRAVEL
- MONITORING WELL SCREENED THROUGH UNDETERMINED STRATA
- EXCEEDS AEP 2014 TIER 1 GUIDELINES

**UTILITY LINES & SYMBOLS**

- NATURAL GAS LINE
- SANITARY SEWER
- STORM SEWER
- WATER
- CATCH BASIN
- FIRE HYDRANT
- LIGHT STANDARD
- MANHOLE
- UTILITY POLE

ALBERTA ENVIRONMENT AND PARKS UNRESTRICTED LAND USE GUIDELINES: COARSE GRAINED SOIL

AEP CRITERIA CATEGORY	VOCs	
	RESIDENTIAL GUIDELINE (mg/L)	COMMERCIAL GUIDELINE (mg/L)
1.2 - DICHLOROETHANE	0.005	0.005

**NOTES:**

1 DRAWING COMPILED FROM PLANIMETRIC FILES SUPPLIED BY THE CITY OF CALGARY (INCLUDING UG UTILITIES) & FROM SITE ASSESSMENT INFORMATION. ADDITIONAL REFERENCES FROM SEACOR ENVIRONMENTAL ENGINEERING INC., DRAWINGS 149-5A11.DWG, 149-5A6.DWG.

0 10 20 30 40 50 m  
PLOT SIZE 22x34

ENGINEER  
**Clifton Associates**

CLIENT  
**SEARS Canada Inc.**

PROJECT  
2015 THIRD QUARTER MONITORING AND SAMPLING REPORT HOUNSFIELD HEIGHTS-BRIAR HILL COMMUNITY CALGARY, ALBERTA

TITLE  
GROUNDWATER EXCEEDANCES - VOCs

DESIGNED	SCALE	DATE
DRAWN	PROJECT NO.	FIG.
CHECKED	FILE NO.	

1:1000  
2016-01-13  
CG2430  
10  
CG2430-E15-10

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# Clifton Associates

## Tables

### Clifton Associates



#### Calgary Office

2222 30th Avenue NE  
Calgary, Alberta T2E 7K9

T (403) 263 2556  
F (403) 234 9033

[calgary@clifton.ca](mailto:calgary@clifton.ca)  
[www.clifton.ca](http://www.clifton.ca)

Table 1 - Summary of the 2015 Q3 Well Monitoring

Monitor Well	Screened Unit	Monitor Date (dd-mmm-yy)	Top of PVC Pipe Elevation (masl <sup>1</sup> )	Ground Surface Elevation (masl <sup>2</sup> )	Total Depth bTOP <sup>3</sup> (m)	Depth to Water bTOP (m)	Depth to Water BGS <sup>4</sup> (m)	Water Elevation (masl)	Monitor Well Vapour Concentration <sup>5</sup> HEX/IBL (ppm)
BH1901	5	01-Sep-15	1090.30	1090.44	23.67	14.16	14.30	1076.14	0/1
		09-Jun-15	1090.30	1090.44	24.06	14.23	14.37	1076.07	0/1
		23-Feb-15	1090.30	1090.44	23.24	14.14	14.28	1076.16	10/2
BH1902	5	01-Sep-15	1089.74	1089.92	30.33	14.02	14.20	1075.72	>11,100/2
		09-Jun-15	1089.74	1089.92	30.40	14.09	14.27	1075.65	11,100/100
		18-Feb-15	1089.74	1089.92	29.69	14.03	14.21	1075.71	11,100/10
BH1903	5	01-Sep-15	1090.32	1090.42	26.83	12.95	13.05	1077.37	20/3
		09-Jun-15	1090.32	1090.42	26.83	12.99	13.09	1077.33	15/1
		19-Mar-15	1090.32	1090.42	26.63	12.97	13.07	1077.35	55/4
BH1904	3	01-Sep-15	1090.49	1090.58	16.39	10.24	10.33	1080.25	0/2
		09-Jun-15	1090.49	1090.58	16.54	10.32	10.41	1080.16	25/9
		12-Mar-15	1090.49	1090.58	15.90	10.28	10.38	1080.20	-
BH1905	1	24-Feb-15	1090.49	1090.58	15.51	10.18	10.27	1080.31	110/43
		01-Sep-15	1090.43	1090.57	5.83	4.02	4.16	1086.41	590/511
		09-Jun-15	1090.43	1090.57	5.91	4.29	4.42	1086.15	2,000/>2,000
BH1906	3	24-Feb-15	1090.43	1090.57	5.93	4.15	4.29	1086.28	570/443
		01-Sep-15	1090.95	1091.03	19.28	11.78	11.86	1079.17	850/329
		09-Jun-15	1090.95	1091.03	19.32	11.85	11.93	1079.10	510/250
BH1907	3	06-Apr-15	1090.95	1091.03	19.39	11.80	11.88	1079.15	-
		25-Feb-15	1090.95	1091.03	18.54	11.95	12.03	1079.00	280/128
		01-Sep-15	1090.14	1090.22	16.45	11.21	11.30	1078.93	>11,100/>2,000
BH1908	3	09-Jun-15	1090.14	1090.22	16.78	11.28	11.37	1078.85	>11,100/>2,000
		28-Apr-15	1090.14	1090.22	18.10	11.21	11.29	1078.93	11,100/2,000
		25-Feb-15	1090.14	1090.22	17.51	11.22	11.31	1078.91	660/460
BH1909	1	01-Sep-15	1089.44	1089.55	15.04	10.77	10.88	1078.67	1,600/754
		09-Jun-15	1089.44	1089.55	15.04	10.85	10.96	1078.59	200/149
		23-Apr-15	1089.44	1089.55	16.00	10.76	10.87	1078.68	1,450/1,000
BH1910	3	24-Feb-15	1089.44	1089.55	16.80	10.73	10.84	1078.71	0/1
		01-Sep-15	1089.48	1089.56	7.25	-	-	-	0/1 (DRY)
		09-Jun-15	1089.48	1089.56	7.27	-	-	-	10/0
BH1910	3	24-Feb-15	1089.48	1089.56	7.25	-	-	-	0/0 (DRY)
		01-Sep-15	1090.08	1090.23	17.87	11.42	11.57	1078.66	-
		09-Jun-15	1090.08	1090.23	17.96	11.49	11.64	1078.59	85/27
		20-Apr-15	1090.08	1090.23	18.61	11.45	11.60	1078.63	5/1
BH1910	3	09-Apr-15	1090.08	1090.23	18.60	11.49	11.63	1078.59	0/1
		26-Feb-15	1090.08	1090.23	17.04	11.47	11.61	1078.61	2/3

Notes:

- 1 Meter above sea level
  - 2 Ground surface elevation based on survey completed in May 2015 by Clifton Associates Ltd.
  - 3 Below top of pipe
  - 4 Below ground surface
  - 5 Vapour concentrations measured in monitoring wells with an RKI Eagle gas portable monitor with PID.
- HEX/IBL Hexane/Isobutylene  
- not measured



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 1 - Summary of the 2015 Q3 Well Monitoring

Monitor Well	Screened Unit	Monitor Date (dd-mmm-yy)	Top of PVC Pipe Elevation (masl <sup>1</sup> )	Ground Surface Elevation (masl <sup>2</sup> )	Total Depth bTOP <sup>3</sup> (m)	Depth to Water bTOP (m)	Depth to Water BGS <sup>4</sup> (m)	Water Elevation (masl)	Monitor Well Vapour Concentration <sup>5</sup> HEX/IBL (ppm)
BH1911	3	01-Sep-15	1092.86	1092.96	18.22	13.84	13.94	1079.02	0/21
		09-Jun-15	1092.86	1092.96	18.24	13.94	14.04	1078.92	25/15
		08-Apr-15	1092.86	1092.96	17.64	13.90	14.00	1078.96	-
BH1912	3	08-Sep-15	1091.04	1091.09	21.08	10.64	10.69	1080.40	520/192
		17-Jun-15	1091.04	1091.09	21.24	9.75	9.80	1081.29	400/250
		09-Mar-15	1091.04	1091.09	20.21	10.57	10.62	1080.47	310/97
BH1913	2	08-Sep-15	1091.05	1091.11	9.20	5.90	5.96	1085.15	0/5
		17-Jun-15	1091.05	1091.11	9.18	6.22	6.28	1084.83	0/1
		25-Feb-15	1091.05	1091.11	9.71	6.07	6.12	1084.99	0/0
BH1914	1	08-Sep-15	1091.03	1091.08	7.55	5.49	5.53	1085.54	0/2
		17-Jun-15	1091.03	1091.08	7.59	5.83	5.87	1085.20	0/1
		25-Feb-15	1091.03	1091.08	7.67	5.56	5.61	1085.47	0/0
BH1915	3	08-Sep-15	1091.06	1091.10	16.91	10.44	10.48	1080.62	>11,100/>2,000
		17-Jun-15	1091.06	1091.10	17.70	10.53	10.57	1080.53	>11,100/1,800
		25-Feb-15	1091.06	1091.10	18.53	10.51	10.55	1080.55	11,100/1,450
BH1916	1	08-Sep-15	1091.06	1091.12	6.77	5.70	5.76	1085.36	0/0
		17-Jun-15	1091.06	1091.12	6.79	6.21	6.27	1084.86	0/0
		23-Feb-15	1091.06	1091.12	6.79	5.82	5.88	1085.24	0/0
BH1917	3	02-Sep-15	1089.39	1089.55	16.33	12.70	12.86	1076.69	0/0
		09-Jun-15	1089.39	1089.55	16.16	12.74	12.90	1076.64	0/0
		07-May-15	1089.39	1089.55	16.13	12.74	12.89	1076.65	0/0
BH1918	3	02-Sep-15	1087.23	1087.27	13.22	9.44	9.48	1077.79	0/0
		09-Jun-15	1087.23	1087.27	13.39	9.45	9.49	1077.78	0/0
		27-Mar-15	1087.23	1087.27	13.40	9.43	9.46	1077.80	0/1
BH1919	3	02-Sep-15	1085.47	1085.52	15.70	10.17	10.22	1075.30	0/0
		09-Jun-15	1085.47	1085.52	15.31	10.25	10.30	1075.22	0/0
		05-May-15	1085.47	1085.52	15.54	10.19	10.25	1075.27	25/1
BH1920	1	02-Sep-15	1087.16	1087.27	4.90	-	-	-	0/10 (DRY)
		09-Jun-15	1087.16	1087.27	4.79	-	-	-	0/0
		27-Mar-15	1087.16	1087.27	4.81	-	-	-	0/0 (DRY)
BH1921	3	01-Sep-15	1088.92	1089.11	19.08	11.46	11.65	1077.46	0/1
		09-Jun-15	1088.92	1089.11	18.85	11.49	11.68	1077.43	15/8
		28-Apr-15	1088.92	1089.11	18.88	11.43	11.62	1077.49	0/1
BH1922	3	01-Sep-15	1087.65	1087.76	18.57	11.03	11.14	1076.62	0/2
		09-Jun-15	1087.65	1087.76	17.72	11.20	11.31	1076.45	5/0
		05-May-15	1087.65	1087.76	17.72	11.08	11.19	1076.57	0/0

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- not measured



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BH1923	3	02-Sep-15	1088.64	1088.70	15.19	10.25	10.30	1078.39	0/23
		09-Jun-15	1088.64	1088.70	15.54	10.30	10.35	1078.35	25/6
BH1924	3	02-Apr-15	1088.64	1088.70	15.83	10.18	10.23	1078.47	165/8
		01-Sep-15	1093.31	1093.39	18.86	14.22	14.30	1079.09	>11,100/1,130
		09-Jun-15	1093.31	1093.39	17.65	14.31	14.39	1079.01	2,950/508
BH1925	3	06-May-15	1093.31	1093.39	17.60	14.30	14.38	1079.01	2,760/830
		02-Sep-15	1091.15	1091.24	19.37	13.73	13.82	1077.42	130/105
BH1926	2,3,4	09-Jun-15	1091.15	1091.24	17.40	13.79	13.88	1077.36	180/119
		06-May-15	1091.15	1091.24	17.41	13.75	13.84	1077.40	185/73
		01-Sep-15	1091.01	1091.13	-	10.46	10.58	1080.55	0/1
BH1927	3	09-Jun-15	1091.01	1091.13	15.80	10.60	10.72	1080.41	25/2
		29-Apr-15	1091.01	1091.13	16.53	10.08	10.20	1080.92	0/1
		31-Mar-15	1091.01	1091.13	-	9.97	10.09	1081.04	60/1
BH1928	3,4	01-Sep-15	1090.31	1090.45	21.49	12.52	12.66	1077.79	300/97
		09-Jun-15	1090.31	1090.45	21.77	12.68	12.81	1077.63	30/27
		30-Apr-15	1090.31	1090.45	22.35	12.57	12.70	1077.74	270/71
BH1929	3	01-Sep-15	1083.60	1083.72	16.69	8.63	8.75	1074.97	630/235
		09-Jun-15	1083.60	1083.72	14.53	8.70	8.82	1074.90	500/200
		04-May-15	1083.60	1083.72	14.57	8.68	8.79	1074.93	230/52
BH1930	2,3	01-Sep-15	1082.55	1082.67	14.88	7.75	7.87	1074.80	0/2
		09-Jun-15	1082.55	1082.67	14.11	7.77	7.89	1074.78	0/1
		01-May-15	1082.55	1082.67	14.31	7.72	7.84	1074.84	0/0
BH1931	2	01-Sep-15	1088.51	1088.73	17.66	11.41	11.63	1077.10	0/4
		09-Jun-15	1088.51	1088.73	17.70	11.68	11.90	1076.83	0/2
		30-Apr-15	1088.51	1088.73	18.31	11.55	11.77	1076.96	0/2
BH1932	1	06-Apr-15	1088.51	1088.73	17.08	11.86	12.07	1076.66	0/8
		02-Sep-15	1088.64	1088.74	7.36	-	-	-	0/1 (DRY)
		09-Jun-15	1088.64	1088.74	7.41	-	-	-	10/0
BH1933	3	30-Mar-15	1088.64	1088.74	7.35	-	-	-	0/0 (DRY)
		02-Sep-15	1088.61	1088.69	4.16	-	-	-	0/1 (DRY)
		09-Jun-15	1088.61	1088.69	4.21	-	-	-	10/0
BH1933	3	30-Mar-15	1088.61	1088.69	4.18	-	-	-	0/0 (DRY)
		01-Sep-15	1090.41	1090.53	17.22	11.18	11.30	1079.23	1,650/225
		09-Jun-15	1090.41	1090.53	17.50	11.26	11.38	1079.15	0/14
		06-Mar-15	1090.41	1090.53	17.31	11.13	11.26	1079.28	135/121

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BH1934	2	01-Sep-15	1090.47	1090.55	8.45	5.91	5.99	1084.56	15/1
		09-Jun-15	1090.47	1090.55	8.51	6.25	6.33	1084.22	0/1
		20-Feb-15	1090.47	1090.55	8.46	6.19	6.27	1084.28	0/2
BH1935	1	01-Sep-15	1090.48	1090.60	5.12	4.44	4.56	1086.04	0/1
		09-Jun-15	1090.48	1090.60	5.16	4.74	4.86	1085.74	0/1
		20-Feb-15	1090.48	1090.60	5.13	4.59	4.71	1085.90	0/0
BH1936	3	01-Sep-15	1082.18	1082.26	14.88	7.59	7.68	1074.59	0/3
		09-Jun-15	1082.18	1082.26	13.68	7.60	7.69	1074.57	0/19
		01-May-15	1082.18	1082.26	13.92	7.54	7.63	1074.64	0/1
BH1937	4.5	02-Sep-15	1080.60	1080.75	11.72	6.38	6.53	1074.22	0/1
		09-Jun-15	1080.60	1080.75	11.73	6.40	6.55	1074.20	0/1
		07-Apr-15	1080.60	1080.75	12.51	6.36	6.51	1074.25	130/1
BH1938	2	01-Sep-15	1082.20	1082.30	5.08	-	-	-	0/1 (DRY)
		09-Jun-15	1082.20	1082.30	5.08	-	-	-	0/1
		08-Apr-15	1082.20	1082.30	5.07	-	-	-	0/0 (DRY)
BH1939	4	02-Sep-15	1080.66	1080.75	8.70	6.41	6.50	1074.25	180/127
		09-Jun-15	1080.66	1080.75	8.70	6.35	6.45	1074.31	230/230
		07-Apr-15	1080.66	1080.75	8.69	6.30	6.39	1074.36	830/110
		31-Mar-15	1080.66	1080.75	8.65	6.38	6.47	1074.28	450/180
BH1940	3	01-Sep-15	1090.45	1090.58	-	10.20	10.33	1080.25	580/15
		09-Jun-15	1090.45	1090.58	16.08	10.30	10.43	1080.15	720/12
		24-Feb-15	1090.45	1090.58	16.08	10.15	10.27	1080.30	2,700/23
BH1941	5	02-Sep-15	1073.80	1073.95	10.37	2.04	2.19	1071.76	0/3
		09-Jun-15	1073.80	1073.95	10.35	2.20	2.35	1071.60	0/1
		10-Apr-15	1073.80	1073.95	11.15	2.35	2.49	1071.45	90/1
BH1942	5	02-Sep-15	1068.37	1068.54	8.33	1.74	1.92	1066.63	0/1
		09-Jun-15	1068.37	1068.54	8.34	1.35	1.53	1067.01	70/1
		30-Mar-15	1068.37	1068.54	8.50	1.30	1.48	1067.07	7,850 Hex
BH1943	4.5	02-Sep-15	1078.72	1078.91	13.37	6.21	6.40	1072.51	0/1
		09-Jun-15	1078.72	1078.91	13.46	6.31	6.50	1072.42	0/2
		13-Apr-15	1078.72	1078.91	13.06	6.22	6.41	1072.51	70/1
BH1944	3	02-Sep-15	1077.12	1077.33	7.40	5.99	6.20	1071.13	0/2
		09-Jun-15	1077.12	1077.33	7.56	6.23	6.44	1070.89	0/2
		10-Apr-15	1077.12	1077.33	7.47	5.92	6.13	1071.21	10/0
BH1945	5	02-Sep-15	1069.27	1069.36	6.28	2.91	3.00	1066.36	0/0
		09-Jun-15	1069.27	1069.36	6.28	3.11	3.20	1066.16	0/2
		26-Mar-15	1069.27	1069.36	6.34	2.83	2.92	1066.44	160 Hex

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HEX/IBL Hexane/Isobutylene

- not measured



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BH1946	5	02-Sep-15	1064.57	1064.66	6.23	2.28	2.37	1062.29	0/1
		09-Jun-15	1064.57	1064.66	6.31	2.84	2.93	1061.73	0/1
		30-Mar-15	1064.57	1064.66	6.33	2.66	2.75	1061.91	35 Hex
BH1947	5	02-Sep-15	1067.72	1067.83	5.89	1.43	1.53	1066.29	0/1
		09-Jun-15	1067.72	1067.83	5.93	1.44	1.54	1066.29	45/0
		09-Apr-15	1067.72	1067.83	5.90	1.50	1.61	1066.22	0/1
BH1948	5	02-Sep-15	1072.45	1072.58	7.71	1.77	1.90	1070.68	0/2
		09-Jun-15	1072.45	1072.58	7.80	1.89	2.02	1070.56	0/1
		09-Apr-15	1072.45	1072.58	7.81	1.68	1.81	1070.77	0/1
BH1949	2	01-Sep-15	1091.06	1091.10	7.40	-	-	-	190/255 (DRY)
		09-Jun-15	1091.06	1091.10	7.41	-	-	-	600/450
		31-Mar-15	1091.06	1091.10	7.41	7.00	7.04	1084.06	810/537
BH1950A	2	02-Sep-15	1091.04	1091.15	11.02	10.22	10.32	1080.82	0/1
		09-Jun-15	1091.04	1091.15	11.08	10.31	10.42	1080.73	15/0
		05-May-15	1091.04	1091.15	11.05	10.30	10.40	1080.75	35/0
BH1951	5	02-Sep-15	1068.02	1068.12	3.48	2.12	2.22	1065.90	0/2
		09-Jun-15	1068.02	1068.12	4.08	2.86	2.96	1065.16	0/1
		30-Mar-15	1068.02	1068.12	4.10	2.52	2.62	1065.50	0/0
BH1952	2,3	01-Sep-15	1090.81	1090.99	18.89	11.77	11.95	1079.04	0/1
		09-Jun-15	1090.81	1090.99	16.52	11.83	12.01	1078.98	0/1
		04-May-15	1090.81	1090.99	16.86	11.79	11.96	1079.03	35/2
BH1953	3	02-Sep-15	1091.28	1091.34	19.02	14.94	15.00	1076.34	0/1
		09-Jun-15	1091.28	1091.34	18.87	14.97	15.03	1076.32	0/1
		26-Mar-15	1091.28	1091.34	18.90	14.95	15.01	1076.34	0/2
BH1954	3,4,5	01-Sep-15	1076.76	1076.90	9.40	3.23	3.37	1073.53	0/1
		09-Jun-15	1076.76	1076.90	9.43	3.25	3.39	1073.51	0/1
		19-Mar-15	1076.76	1076.90	13.42	3.48	3.62	1073.28	0/0
BH1955	5	01-Sep-15	1074.04	1074.15	-	2.77	2.88	1071.27	0/1
		09-Jun-15	1074.04	1074.15	7.39	4.44	4.55	1069.60	0/1
		19-Mar-15	1074.04	1074.15	8.89	2.39	2.49	1071.66	20 Hex
BH1956	3	02-Sep-15	1084.76	1084.92	14.37	9.33	9.49	1075.43	0/1
		09-Jun-15	1084.76	1084.92	13.55	9.38	9.54	1075.38	5/0
		05-May-15	1084.76	1084.92	13.58	9.32	9.48	1075.44	20/0
BH1957	3	01-Sep-15	1089.87	1089.98	14.05	10.06	10.17	1079.81	15/2
		09-Jun-15	1089.87	1089.98	14.22	10.15	10.25	1079.73	0/1
		17-Mar-15	1089.87	1089.98	13.26	10.04	10.15	1079.83	0/1

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BH1958	3	01-Sep-15	1090.26	1090.41	12.56	9.77	9.92	1080.49	0/2
		09-Jun-15	1090.26	1090.41	12.70	9.89	10.05	1080.36	5/0
		14-Mar-15	1090.26	1090.41	14.90	9.93	10.09	1080.32	0/0
		23-Feb-15	1090.26	1090.41	14.05	9.90	10.05	1080.35	0/2
BH1959	3	01-Sep-15	1090.27	1090.42	15.43	9.41	9.56	1080.86	25/2
		09-Jun-15	1090.27	1090.42	15.62	9.50	9.65	1080.76	15/0
		19-Mar-15	1090.27	1090.42	15.40	9.48	9.62	1080.79	105/1
BH1960	1	01-Sep-15	1090.26	1090.42	3.27	-	-	-	0/1 (DRY)
		09-Jun-15	1090.26	1090.42	3.29	-	-	-	15/0
		19-Mar-15	1090.26	1090.42	3.40	-	-	-	0/0 (DRY)
BH1961	3,4,5	01-Sep-15	1076.67	1076.79	10.94	4.40	4.52	1072.27	0/1
		09-Jun-15	1076.67	1076.79	10.94	4.37	4.49	1072.30	0/1
		21-Apr-15	1076.67	1076.79	11.82	4.24	4.35	1072.44	20/1
BH1962	3	01-Sep-15	1078.36	1078.48	10.42	3.12	3.24	1075.24	0/1
		09-Jun-15	1078.36	1078.48	12.32	3.19	3.31	1075.17	0/1
		09-Apr-15	1078.36	1078.48	12.41	3.11	3.23	1075.25	20/0
BH1963	3	01-Sep-15	1080.84	1080.96	10.29	3.79	3.91	1077.05	0/1
		09-Jun-15	1080.84	1080.96	10.10	3.89	4.01	1076.95	0/1
		09-Apr-15	1080.84	1080.96	10.90	3.83	3.95	1077.01	0/0
BH1964	4	01-Sep-15	1076.77	1076.90	8.45	4.16	4.29	1072.61	0/0
		09-Jun-15	1076.77	1076.90	8.46	4.23	4.36	1072.54	0/1
		22-Apr-15	1076.77	1076.90	8.46	4.03	4.15	1072.75	1,350/1
BH1965	2	02-Sep-15	1091.27	1091.37	10.99	-	-	-	0/0 (DRY)
		09-Jun-15	1091.27	1091.37	10.88	-	-	-	0/1
		25-Mar-15	1091.27	1091.37	10.90	-	-	-	0/0 (DRY)
BH1966	3	01-Sep-15	1089.42	1089.52	10.57	10.70	10.80	1078.72	0/0
		09-Jun-15	1089.42	1089.52	16.61	10.74	10.84	1078.68	5/0
		27-Apr-15	1089.42	1089.52	16.69	10.72	10.82	1078.70	0/0
		24-Feb-15	1089.42	1089.52	16.20	10.62	10.72	1078.80	0/1
BH1967	2	01-Sep-15	1090.10	1090.21	8.60	7.46	7.57	1082.64	0/2
		09-Jun-15	1090.10	1090.21	8.59	7.44	7.54	1082.67	5/1
		25-Feb-15	1090.10	1090.21	8.60	7.83	7.93	1082.28	350/185
BH1968	1	01-Sep-15	1090.08	1090.20	5.12	-	-	-	0/0 (DRY)
		09-Jun-15	1090.08	1090.20	5.15	-	-	-	0/0
		25-Feb-15	1090.08	1090.20	5.12	-	-	-	5/1 (DRY)

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BH1969	1	01-Sep-15	1089.39	1089.47	7.46	-	-	-	20/15 (DRY)
		09-Jun-15	1089.39	1089.47	7.56	-	-	-	0/0
		24-Feb-15	1089.39	1089.47	7.53	-	-	-	1,200/450 (DRY)
BH1970	2	01-Sep-15	1089.22	1089.30	8.56	-	-	-	>11,100/>2,000 (DRY)
		09-Jun-15	1089.22	1089.30	8.59	-	-	-	920/280
		24-Feb-15	1089.22	1089.30	8.57	-	-	-	1,500/1,850 (DRY)
BH1971	2	01-Sep-15	1090.76	1090.94	10.97	7.95	8.14	1082.81	1,350/651
		09-Jun-15	1090.76	1090.94	10.97	7.80	7.99	1082.95	200/115
		27-Feb-15	1090.76	1090.94	10.97	7.96	8.15	1082.80	5,000/1,500
BH1972	2	01-Sep-15	1088.79	1088.92	10.98	8.14	8.27	1080.65	0/1
		09-Jun-15	1088.79	1088.92	10.90	8.79	8.92	1080.00	0/2
		06-Apr-15	1088.79	1088.92	10.98	9.61	9.74	1079.18	0/3
BH1973	1	01-Sep-15	1090.81	1090.93	6.42	-	-	-	0/0 (DRY)
		09-Jun-15	1090.81	1090.93	6.42	-	-	-	0/0
		27-Feb-15	1090.81	1090.93	6.41	6.21	6.33	1084.60	0/0
BH1974	2	01-Sep-15	1090.07	1090.24	9.99	7.58	7.75	1082.49	7,800/1,099
		09-Jun-15	1090.07	1090.24	10.00	7.31	7.48	1082.76	920/280
		26-Feb-15	1090.07	1090.24	10.00	7.19	7.37	1082.88	3,400/925
BH1975	1	01-Sep-15	1090.23	1090.39	7.02	-	-	-	0/1 (DRY)
		09-Jun-15	1090.23	1090.39	7.03	-	-	-	0/0
		26-Feb-15	1090.23	1090.39	7.03	6.66	6.82	1083.57	450/0
BH1976	2	01-Sep-15	1092.63	1092.79	13.83	9.72	9.88	1082.91	0/1
		09-Jun-15	1092.63	1092.79	13.86	9.71	9.86	1082.93	0/1
		-	1092.63	1092.79	-	-	-	-	-
BH1977	3,4,5	01-Sep-15	1074.04	1074.16	6.30	1.05	1.16	1072.99	0/1
		09-Jun-15	1074.04	1074.16	6.29	1.15	1.27	1072.89	0/1
		18-Mar-15	1074.04	1074.16	7.93	1.14	1.25	1072.91	2,800 Hex
BH1978	4,5	02-Sep-15	1069.24	1069.42	2.88	1.90	2.08	1067.34	0/0
		09-Jun-15	1069.24	1069.42	2.91	2.09	2.27	1067.15	0/1
		26-Mar-15	1069.24	1069.42	3.05	1.37	1.55	1067.87	0/0
BH1979	3	02-Sep-15	1078.71	1078.78	6.76	5.73	5.80	1072.98	0/1
		09-Jun-15	1078.71	1078.78	6.82	5.76	5.83	1072.95	0/1
		08-Apr-15	1078.71	1078.78	6.76	5.71	5.78	1073.00	15/0
BH1980	4	02-Sep-15	1074.24	1074.31	5.84	2.82	2.88	1071.42	0/2
		09-Jun-15	1074.24	1074.31	5.97	2.92	2.98	1071.33	0/1
		08-Apr-15	1075.24	1074.31	6.01	2.95	2.01	1072.30	0/1
BH1981	3	01-Sep-15	1076.99	1077.06	7.86	3.68	3.76	1073.31	0/1
		09-Jun-15	1076.99	1077.06	7.83	3.66	3.74	1073.32	0/1
		27-Mar-15	1076.99	1077.06	9.15	3.64	3.72	1073.34	0/0
BH1982	3	02-Sep-15	1080.85	1080.96	7.96	6.46	6.57	1074.39	0/1
		09-Jun-15	1080.85	1080.96	7.73	6.48	6.60	1074.37	0/1
		31-Mar-15	1080.85	1080.96	7.46	5.43	5.54	1075.42	0/0

Notes:

- 1 Meter above sea level
  - 2 Ground surface elevation based on survey completed in May 2015 by Clifton Associates Ltd.
  - 3 Below top of pipe
  - 4 Below ground surface
  - 5 Vapour concentrations measured in monitoring wells with an RKI Eagle gas portable monitor with PID.
- HEX/IBL Hexane/Isobutylene  
- not measured



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 1 - Summary of the 2015 Q3 Well Monitoring

Monitor Well	Screened Unit	Monitor Date (dd-mmm-yy)	Top of PVC Pipe Elevation (masl <sup>1</sup> )	Ground Surface Elevation (masl <sup>2</sup> )	Total Depth bTOP <sup>3</sup> (m)	Depth to Water bTOP (m)	Depth to Water BGS <sup>4</sup> (m)	Water Elevation (masl)	Monitor Well Vapour Concentration <sup>5</sup> HEX/IBL (ppm)
BH1983	3	15-Sep-15	1090.53	1090.64	14.93	9.67	9.77	1080.86	15/14
		09-Jun-15	1090.53	1090.64	14.48	9.02	9.12	1081.52	20/3
		08-May-15	1090.53	1090.64	17.86	9.82	9.92	1080.71	1,050/60
BH1984	3	15-Sep-15	1090.37	1090.46	15.36	9.05	9.14	1081.32	>11,100/>2,000
		09-Jun-15	1090.37	1090.46	15.47	9.12	9.21	1081.25	35/23
		07-May-15	1090.37	1090.46	15.50	9.08	9.17	1081.29	>11,100/>2,500
BH1985	3	15-Sep-15	1090.21	1090.31	17.32	8.76	8.86	1081.45	0/0
		09-Jun-15	1090.21	1090.31	17.47	8.86	8.96	1081.36	0/0
		07-May-15	1090.21	1090.31	17.04	8.81	8.91	1081.40	15/0
BH1986	2	15-Sep-15	1090.31	1090.42	6.69	-	-	-	5/1 (DRY)
		09-Jun-15	1090.31	1090.42	6.71	-	-	-	10/1
		22-Apr-15	1090.31	1090.42	6.69	-	-	-	10/1 (DRY)
BH1987	2	15-Sep-15	1090.15	1090.27	6.01	-	-	-	0/1 (DRY)
		09-Jun-15	1090.15	1090.27	6.04	-	-	-	0/1
		22-Apr-15	1090.15	1090.27	6.00	-	-	-	0/1 (DRY)
BH1988	1	15-Sep-15	1090.16	1090.26	4.49	-	-	-	0/0 (DRY)
		09-Jun-15	1090.16	1090.26	4.54	-	-	-	0/0
		22-Apr-15	1090.16	1090.26	4.50	-	-	-	0/0 (DRY)
BH510A		02-Sep-15	-	-	16.5	13.600	-	-	0/0
		09-Jun-15	-	-	17.25	13.66	-	-	10/0
		07-Apr-15	-	-	17.01	13.61	-	-	-
BH732		02-Sep-15	-	-	11.99	6.20	-	-	0/0
		09-Jun-15	-	-	12.09	6.30	-	-	0/0
		10-Apr-15	-	-	12.50	6.33	-	-	-
BH912		01-Sep-15	-	-	4.34	2.59	-	-	0/1
		09-Jun-15	-	-	4.45	2.64	-	-	0/1
		10-Apr-15	-	-	4.25	2.59	-	-	0/3
BH1102		01-Sep-15	-	-	13.77	10.49	-	-	0/2
		09-Jun-15	-	-	13.77	10.54	-	-	0/0
		31-Mar-15	-	-	13.77	10.40	-	-	35/1
BH1701		02-Sep-15	-	-	11.79	9.56	-	-	0/0
		09-Jun-15	-	-	11.97	9.60	-	-	10/0
		01-Apr-15	-	-	11.79	9.56	-	-	0/0
BH1704		02-Sep-15	-	-	11.94	10.45	-	-	5,100/>2,000
		09-Jun-15	-	-	12.13	10.53	-	-	480/305
		02-Apr-15	-	-	12.13	10.33	-	-	240/100

Notes:

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- 2 Ground surface elevation based on survey completed in May 2015 by Clifton Associates Ltd.
- 3 Below top of pipe
- 4 Below ground surface
- 5 Vapour concentrations measured in monitoring wells with an RKI Eagle gas portable monitor with PID.

HEX/IBL Hexane/Isobutylene

- not measured



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 1 - Summary of the 2015 Q3 Well Monitoring

Monitor Well	Screened Unit	Monitor Date (dd-mmm-yy)	Top of PVC Pipe Elevation (masl <sup>1</sup> )	Ground Surface Elevation (masl <sup>2</sup> )	Total Depth bTOP <sup>3</sup> (m)	Depth to Water bTOP (m)	Depth to Water BGS <sup>4</sup> (m)	Water Elevation (masl)	Monitor Well Vapour Concentration <sup>5</sup> HEX/IBL (ppm)
EX1		02-Sep-15	-	-	15.44	13.69	-	-	0/0
		09-Jun-15	-	-	15.85	13.72	-	-	0/0
EX2		17-Apr-15	-	-	15.89	13.71	-	-	10/0
		02-Sep-15	-	-	13.95	12.79	-	-	0/0
EX3		09-Jun-15	-	-	14.36	12.79	-	-	0/1
		14-Apr-15	-	-	14.06	12.76	-	-	0/5
EX4		02-Sep-15	-	-	13.29	11.31	-	-	0/1
		09-Jun-15	-	-	12.50	11.28	-	-	0/0
EX5		14-Apr-15	-	-	13.25	11.31	-	-	0/1
		02-Sep-15	-	-	12.32	10.00	-	-	460/225
EX6		09-Jun-15	-	-	12.64	9.96	-	-	40/73
		15-Apr-15	-	-	12.22	9.94	-	-	60/20
EX7		02-Sep-15	-	-	13.25	10.39	-	-	330/138
		09-Jun-15	-	-	13.57	10.29	-	-	510/230
EX8		16-Apr-15	-	-	13.75	10.33	-	-	290/198
		02-Sep-15	-	-	12.75	10.90	-	-	290/61
EX9		09-Jun-15	-	-	12.82	10.88	-	-	0/12
		17-Apr-15	-	-	12.77	10.92	-	-	5/2
EX10		02-Sep-15	-	-	12.69	10.99	-	-	3,200/1,191
		09-Jun-15	-	-	13.11	10.99	-	-	0/35
		18-Apr-15	-	-	13.24	10.97	-	-	45/35

**Notes:**

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- 3 Below top of pipe
- 4 Below ground surface
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HEX/IBL Hexane/Isobutylene

- not measured



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1901	BH1901-1	BH1901-2	BH1901	BH1902	BH1902-1	BH1902-2	BH1902-3	BH1902-4	Guideline <sup>1</sup>
Sampling Depth (m bgs)	19.66-21.18	19.66-21.18	21.18-22.71	Bulk	22.71-24.23	19.66-21.18	21.18-22.71	22.71-24.23	24.23-25.76	
Sample Date	15-Sep-15	16-Jun-15	16-Jun-15	06-Mar-15	15-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	
Unit	5	5	5	5	5	5	5	5	5	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	C	C	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.

2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1902-5	BH1902-6	BH1902	BH1903	BH1903-1	BH1903	BH1904	BH1904-1	BH1904	Guideline <sup>1</sup>
Sampling Depth (m bgs)	25.76-27.28	27.28-28.80	Bulk	23.62-25.15	23.62-25.15	Bulk	12.80-14.33	12.80-14.33	Bulk	
Sample Date	15-Jun-15	15-Jun-15	23-Feb-15	08-Sep-15	16-Jun-15	26-Mar-15	15-Sep-15	15-Jun-15	17-Mar-15	
Unit	5	5	5	5	5	5	3	3	3	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	C	C	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.246</b>	<b>0.350</b>	<b>0.117</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.

2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1905	BH1905	BH1905	Guideline <sup>1</sup>	BH1906	BH1906-1	BH1906-2	BH1906-3	BH1906-4	Guideline <sup>2</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk		14.63-16.15	11.58-13.10	13.10-14.63	14.63-16.15	16.15-17.68	
Sample Date	08-Sep-15	11-Jun-15	25-Feb-15		16-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	
Unit	1	1	1		3	3	3	3	3	
Land Use <sup>3</sup>	C	C	C		R	R	R	R	R	
Parameter										
Benzene	<b>0.110</b>	<b>0.0714</b>	<b>0.086</b>	0.005	<b>2.01</b>	<b>1.92</b>	<b>2.01</b>	<b>2.19</b>	<b>2.05</b>	0.005
Toluene	0.0038	0.0028	0.011	0.021	0.0004	0.0004	0.0003	0.0003	0.0004	0.021
Ethylbenzene	<b>0.243</b>	<b>0.787</b>	<b>1.88</b>	0.0024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<b>1.56</b>	<b>10.4</b>	<b>26.3</b>	0.3	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<b>1.4</b>	0.2	-	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<b>2.7</b>	<b>3.9</b>	<b>7.3</b>	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1906	BH1907	BH1907-3	BH1907-4	BH1907	BH1908	BH1908-1	BH1908-2	BH1908	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	11.89-13.41	11.89-13.41	13.41-14.94	Bulk	12.19-13.72	12.19-13.72	13.72-14.94	Bulk	
Sample Date	08-Apr-15	16-Sep-15	15-Jun-15	15-Jun-15	30-Apr-15	16-Sep-15	12-Jun-15	12-Jun-15	28-Apr-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	1.73	0.0742	0.0572	0.0486	0.232	0.0107	0.0160	0.0165	0.0016	0.005
Toluene	0.0004	0.248	0.248	0.188	0.0197	0.0007	0.0011	0.0010	0.0003	0.021
Ethylbenzene	<0.0005	0.0105	0.024	0.0173	0.341	<0.0005	0.0007	0.0007	0.0009	0.0024
Xylenes (Total)	0.0005	0.157	0.310	0.214	0.0101	0.0006	0.0026	0.0029	0.0054	0.3
F1 minus BTEX (C6 - C10)	<0.1	0.4	0.9	0.4	3.6	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1910	BH1910-1	BH1910-2	BH1910-3	BH1910-4	BH1910	BH1911	BH1911-3	BH1911-4	Guideline <sup>1</sup>
Sampling Depth (m bgs)	11.42-12.50	11.49-12.50	12.50-14.02	14.02-15.54	15.54-17.07	Bulk	15.54-17.07	14.02-15.54	15.54-17.07	
Sample Date	16-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	22-Apr-15	16-Sep-15	15-Jun-15	15-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>0.118</b>	<b>0.324</b>	<b>0.324</b>	<b>0.296</b>	<b>0.267</b>	<b>0.351</b>	<b>0.509</b>	<b>0.302</b>	<b>0.346</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1911	BH1912	BH1912-1	BH1912-2	BH1912-3	BH1912-4	BH1912	BH1913	BH1913-1	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	13.41-14.94	13.41-14.94	14.94-16.46	16.46-17.98	17.98-19.51	Bulk	6.40-7.92	6.40-7.92	
Sample Date	09-Apr-15	08-Sep-15	17-Jun-15	17-Jun-15	17-Jun-15	17-Jun-15	10-Mar-15	08-Sep-15	17-Jun-15	
Unit	3	3	3	3	3	3	3	2	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>0.436</b>	<b>0.727</b>	<b>0.799</b>	<b>0.795</b>	<b>0.738</b>	<b>0.716</b>	<b>0.942</b>	<0.0005	<0.0005	0.005
Toluene	<0.0003	0.0004	0.0009	0.001	0.0009	0.0008	0.0021	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	0.0021	0.0176	0.0184	0.0172	0.0196	0.0481	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1913	BH1914	BH1914	BH1914	BH1915	BH1915-1	BH1915-2	BH1915-3	BH1915-4	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	14.94-16.46	10.36-11.89	11.89-13.41	13.41-14.94	14.94-16.46	
Sample Date	26-Feb-15	08-Sep-15	17-Jun-15	26-Feb-15	08-Sep-15	17-Jun-15	17-Jun-15	17-Jun-15	17-Jun-15	
Unit	2	1	1	1	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.510</b>	<b>1.10</b>	<b>1.14</b>	<b>1.15</b>	<b>1.24</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<b>0.0319</b>	<b>0.183</b>	<b>0.0727</b>	<b>0.0813</b>	<b>0.0817</b>	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0087</b>	<b>0.0427</b>	<b>0.0163</b>	<b>0.0214</b>	<b>0.020</b>	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<b>1.02</b>	<b>2.33</b>	<b>1.12</b>	<b>1.26</b>	<b>1.22</b>	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<b>1.8</b>	<b>2.6</b>	<b>1.6</b>	<b>1.9</b>	<b>1.5</b>	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	0.6	0.6	0.5	0.6	0.4	1.1

Notes:

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Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1915	BH1916	BH1916	BH1916	BH1917	BH1917-4	BH1917	BH1918	BH1918-3	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	13.41-14.94	13.41-14.94	Bulk	8.84-10.36	8.84-10.36	
Sample Date	26-Feb-15	08-Sep-15	17-Jun-15	26-Feb-15	04-Sep-15	18-Jun-15	08-May-15	04-Sep-15	16-Jun-15	
Unit	3	1	1	1	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>1.01</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<b>0.0723</b>	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<b>0.0411</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<b>1.96</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<b>3.2</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<b>1.1</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

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Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1918-4	BH1918	BH1919	BH1919-3	BH1919-4	BH1919-5	BH1919	BH1921	BH1921-2	Guideline <sup>1</sup>
Sampling Depth (m bgs)	10.36-11.89	Bulk	11.28-12.80	9.75-11.28	11.28-12.80	12.80-14.33	Bulk	11.89-13.41	10.36-11.89	
Sample Date	16-Jun-15	31-Mar-15	04-Sep-15	18-Jun-15	18-Jun-15	18-Jun-15	06-May-15	04-Sep-15	19-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.174</b>	<b>0.280</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0175	<b>0.0377</b>	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.137</b>	<b>0.179</b>	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0092	0.0072	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<b>1.0</b>	<b>1.1</b>	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	1.1

Notes:

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Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1921-3	BH1921-4	BH1921-5	BH1921	BH1922	BH1922-3	BH1922-4	BH1922-5	BH1922	Guideline <sup>1</sup>
Sampling Depth (m bgs)	11.89-13.41	13.41-14.94	14.94-16.46	Bulk	15.54-17.07	10.97-12.50	12.50-14.02	14.02-15.54	Bulk	
Sample Date	19-Jun-15	19-Jun-15	22-Jun-15	28-Apr-15	03-Sep-15	19-Jun-15	19-Jun-15	19-Jun-15	05-May-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	0.417	0.334	0.330	0.470	0.0056	<0.0005	0.237	0.314	<0.0005	0.005
Toluene	0.0461	0.0382	0.0372	0.0869	<0.0003	<0.0003	0.0039	0.0055	<0.0003	0.021
Ethylbenzene	0.258	0.184	0.225	0.352	<0.0005	<0.0005	0.0046	0.0119	<0.0005	0.0024
Xylenes (Total)	0.0104	0.0081	0.0094	0.0126	<0.0005	<0.0005	0.0020	0.0031	<0.0005	0.3
F1 minus BTEX (C6 - C10)	0.9	0.8	1.1	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	0.2	0.2	0.2	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

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m bgs Meters below ground surface

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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1923	BH1923-3	BH1923-4	BH1923	BH1924	BH1924-1	BH1924	BH1925	BH1925-1	Guideline <sup>1</sup>
Sampling Depth (m bgs)	10.67-12.19	10.67-12.19	12.19-13.72	Bulk	14.94-16.46	14.94-16.46	Bulk	16.76-18.29	16.76-18.29	
Sample Date	03-Sep-15	12-Jun-15	12-Jun-15	02-Apr-15	16-Sep-15	19-Jun-15	07-May-15	04-Sep-15	12-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	0.0014	0.0028	0.0024	0.0013	<b>3.90</b>	<b>6.32</b>	<b>3.04</b>	<b>2.54</b>	<b>1.50</b>	0.005
Toluene	0.0010	0.0007	0.0006	<0.0003	<b>0.0243</b>	<b>0.0302</b>	0.010	<b>0.137</b>	<b>0.0247</b>	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.0008	0.001	<b>0.515</b>	<b>0.0145</b>	0.0024
Xylenes (Total)	0.0129	0.0104	0.0098	0.0075	<b>0.373</b>	<b>0.402</b>	0.153	0.072	0.0104	0.3
F1 minus BTEX (C6 - C10)	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<b>1.8</b>	<b>2.2</b>	0.5	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	0.1	0.3	0.2	0.2	<0.1	1.1

Notes:

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m bgs Meters below ground surface

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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1925	BH1926-3	BH1926-4	BH1926	BH1927	BH1927-2	BH1927-3	BH1927-4	BH1927-5	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	11.28-12.80	12.80-14.33	Bulk	15.24-16.76	13.72-15.24	15.24-16.76	16.76-18.29	18.29-19.81	
Sample Date	07-May-15	16-Jun-15	16-Jun-15	08-May-15	04-Sep-15	16-Jun-15	16-Jun-15	16-Jun-15	16-Jun-15	
Unit	3	2	3	2, 3, 4	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>1.82</b>	<0.0005	<0.0005	<0.0005	0.0009	0.0016	0.0018	0.0020	0.0020	0.005
Toluene	<b>0.037</b>	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<b>0.542</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	0.0171	<0.0005	<0.0005	<0.0005	0.0172	0.0152	0.0184	0.0181	0.0173	0.3
F1 minus BTEX (C6 - C10)	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

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m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1927	BH1928	BH1928-3	BH1928-3	BH1928-4	BH1928	BH1929	BH1929-3	BH1929-4	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	8.63-9.45	9.45-10.97	9.45-10.97	10.97-12.50	Bulk	8.53-10.06	8.53-10.06	10.06-11.58	
Sample Date	01-May-15	18-Sep-15	24-Sep-15	16-Jun-15	17-Jun-15	05-May-15	03-Sep-15	18-Jun-15	18-Jun-15	
Unit	3	3	3	3	3	3,4	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<b>4.72</b>	<b>2.57</b>	<b>4.93</b>	<b>4.47</b>	<0.0005	<b>0.770</b>	<b>0.681</b>	<b>0.654</b>	0.005
Toluene	<0.0003	0.0032	0.0029	0.0030	0.0041	<0.0003	0.0018	0.0021	0.0020	0.021
Ethylbenzene	<0.0005	0.0012	0.0010	0.0015	0.0018	<0.0005	<0.0005	0.0006	0.0007	0.0024
Xylenes (Total)	<0.0005	0.0783	0.0518	0.0576	0.0837	<0.0005	0.0008	0.0018	0.0017	0.3
F1 minus BTEX (C6 - C10)	<0.1	0.2	<0.1	<b>3.0</b>	0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

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m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1929-5	BH1929	BH1930	BH1930-5	BH1930-6	BH1930	BH1933	BH1933-3	BH1933-4	Guideline <sup>1</sup>
Sampling Depth (m bgs)	11.58-13.11	Bulk	14.02-15.54	12.50-14.02	14.02-15.54	Bulk	11.89-13.41	11.89-13.41	13.41-14.94	
Sample Date	18-Jun-15	04-May-15	22-Sep-15	16-Jun-15	16-Jun-15	01-May-15	15-Sep-15	16-Jun-15	16-Jun-15	
Unit	3	3	3	3	3	2,3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>0.641</b>	<b>0.920</b>	<b>0.0660</b>	<b>0.113</b>	<b>0.113</b>	<b>0.063</b>	<b>0.0093</b>	0.0044	0.0028	0.005
Toluene	0.0020	0.0017	0.0018	0.0024	0.0025	0.0014	0.0026	<0.0003	<0.0003	0.021
Ethylbenzene	0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0030</b>	<0.0005	<0.0005	0.0024
Xylenes (Total)	0.0016	0.0013	0.0958	0.0867	0.0895	0.0492	0.0189	<0.0005	0.0012	0.3
F1 minus BTEX (C6 - C10)	<0.1	0.1	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

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m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1933	BH1934	BH1934	BH1934	BH1935	BH1935	BH1935	BH1936	BH1936-3	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	8.38-9.91	8.38-9.91	
Sample Date	12-Mar-15	16-Sep-15	11-Jun-15	23-Feb-15	16-Sep-15	11-Jun-15	23-Feb-15	03-Sep-15	18-Jun-15	
Unit	3	2	2	2	1	1	1	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	0.0033	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0589</b>	<b>0.484</b>	0.005
Toluene	0.0005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0011	0.0069	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0073</b>	<b>0.184</b>	0.0024
Xylenes (Total)	0.0115	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0022	0.0139	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	0.4	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

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 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1936-4	BH1936	BH1937	BH1937-1	BH1937	BH1939	BH1939	BH1939	BH1941	Guideline <sup>1</sup>
Sampling Depth (m bgs)	9.91-11.43	Bulk	8.84-10.36	8.84-10.36	Bulk	Bulk	Bulk	Bulk	7.32-8.84	
Sample Date	18-Jun-15	04-May-15	22-Sep-15	18-Jun-15	08-Apr-15	21-Sep-15	11-Jun-15	01-Apr-15	04-Sep-15	
Unit	3	3	4, 5	4, 5	4, 5	4	4	4	5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>0.423</b>	<b>0.201</b>	0.0026	0.0031	<b>0.0118</b>	<b>8.00</b>	<b>8.57</b>	<b>9.31</b>	<0.0005	0.005
Toluene	0.0057	0.0028	<0.0003	<0.0003	<0.0003	0.0244	0.0170	<b>0.0278</b>	<0.0003	0.021
Ethylbenzene	<b>0.132</b>	<b>0.0504</b>	<0.0005	<0.0005	<0.0005	<b>0.286</b>	<b>0.218</b>	<b>0.297</b>	<0.0005	0.0024
Xylenes (Total)	0.0119	0.0087	<0.0005	<0.0005	<0.0005	0.0547	0.0440	0.166	<0.0005	0.3
F1 minus BTEX (C6 - C10)	0.5	0.5	<0.1	<0.1	<0.1	<b>1.2</b>	0.2	0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1941-1	BH1941	BH1942	BH1942-1	BH1942-2	BH1942	BH1943	BH1943-1	BH1943-2	Guideline <sup>1</sup>
Sampling Depth (m bgs)	7.32-8.84	Bulk	4.42-5.94	4.42-5.94	5.94-7.47	Bulk	7.32-8.84	7.32-8.84	8.84-10.36	
Sample Date	16-Jun-15	13-Apr-15	04-Sep-15	18-Jun-15	18-Jun-15	01-Apr-15	04-Sep-15	18-Jun-15	18-Jun-15	
Unit	5	5	5	5	5	5	4, 5	4, 5	4, 5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>1.58</b>	<b>1.91</b>	<b>1.62</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
	<0.1									
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1943-3	BH1943	BH1944	BH1944	BH1944	BH1945	BH1945	BH1945	BH1946	Guideline <sup>1</sup>
Sampling Depth (m bgs)	10.36-11.89	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	
Sample Date	18-Jun-15	15-Apr-15	17-Sep-15	11-Jun-15	13-Apr-15	21-Sep-15	11-Jun-15	27-Mar-15	21-Sep-15	
Unit	4, 5	4, 5	3	3	3	5	5	5	5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>1.70</b>	<b>1.66</b>	0.0016	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1946	BH1946	BH1947	BH1947	BH1947	BH1948	BH1948-1	BH1948	BH1949	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	3.96-5.49	3.96-5.49	Bulk	Bulk	
Sample Date	11-Jun-15	01-Apr-15	21-Sep-15	11-Jun-15	10-Apr-15	04-Sep-15	16-Jun-15	10-Apr-15	02-Apr-15	
Unit	5	5	5	5	5	5	5	5	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0058</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0051	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0167</b>	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.0579	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	-	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1950A	BH1950A	BH1950A	BH1951	BH1951	BH1951	BH1952	BH1952-4	BH1952-5	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	12.50-14.02	12.50-14.02	14.02-15.54	
Sample Date	17-Sep-15	11-Jun-15	06-May-15	21-Sep-15	11-Jun-15	01-Apr-15	04-Sep-15	16-Jun-15	16-Jun-15	
Unit	2	2	2	5	5	5	2	2	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
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 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1952	BH1953	BH1953-3	BH1953-4	BH1953	BH1954	BH1954-1	BH1954-2	BH1954	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	15.54-17.07	14.33-15.85	15.85-17.37	Bulk	5.49-7.01	5.49-7.01	7.01-8.53	Bulk	
Sample Date	05-May-15	04-Sep-15	16-Jun-15	16-Jun-15	30-Mar-15	22-Sep-15	18-Jun-15	18-Jun-15	26-Mar-15	
Unit	2, 3	3	3	3	3	3	3	3	3, 4, 5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0065</b>	0.0025	0.0022	0.0013	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1955	BH1955	BH1956	BH1956-3	BH1956-3	BH1956-4	BH1956	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	11.89-13.41	10.36-11.89	8.84-10.36	10.36-11.89	Bulk	
Sample Date	11-Jun-15	20-Mar-15	18-Sep-15	24-Sep-15	18-Jun-15	18-Jun-15	06-May-15	
Unit	5	5	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	
Parameter								
Benzene	<0.0005	<0.0005	<b>3.04</b>	<b>2.90</b>	<b>0.0656</b>	<b>1.43</b>	<b>0.456</b>	0.005
Toluene	<0.0003	<0.0003	<b>0.246</b>	<b>0.256</b>	0.0050	<b>0.113</b>	<b>0.0549</b>	0.021
Ethylbenzene	<0.0005	<0.0005	<b>0.0542</b>	<b>0.0540</b>	0.0008	<b>0.0180</b>	<b>0.0078</b>	0.0024
Xylenes (Total)	<0.0005	<0.0005	0.203	0.195	0.0033	0.0730	0.0369	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	0.1	<0.1	<0.1	0.3	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1957	BH1957-4	BH1957	BH1958	BH1958-4	BH1958	BH1959	BH1959-3	BH1959-4	Guideline <sup>1</sup>
Sampling Depth (m bgs)	10.36-11.89	10.36-11.89	Bulk	10.36-11.89	10.36-11.89	Bulk	10.97-12.50	9.45-10.97	10.97-12.50	
Sample Date	15-Sep-15	15-Jun-15	19-Mar-15	15-Sep-15	16-Jun-15	19-Mar-15	08-Sep-15	16-Jun-15	16-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	C	C	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.

2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1959-5	BH1959	Guideline <sup>1</sup>	BH1961	BH1961-1	BH1961	BH1962	BH1962	BH1962	Guideline <sup>2</sup>
Sampling Depth (m bgs)	12.50-14.02	Bulk		8.53-10.06	8.53-10.06	Bulk	Bulk	Bulk	Bulk	
Sample Date	16-Jun-15	26-Mar-15		04-Sep-15	16-Jun-15	22-Apr-15	21-Sep-15	11-Jun-15	10-Apr-15	
Unit	3	3		3	3	3	3	3	3	
Land Use <sup>3</sup>	C	C		R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	0.021	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	0.0024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	0.3	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1963	BH1963-1	BH1963-2	BH1963	BH1964	BH1964	BH1964	BH1966	BH1966-3	Guideline <sup>1</sup>
Sampling Depth (m bgs)	6.71-8.23	5.49-6.71	6.71-8.23	Bulk	Bulk	Bulk	Bulk	11.89-13.41	10.36-11.89	
Sample Date	04-Sep-15	16-Jun-15	17 June 015	10-Apr-15	21-Sep-15	11-Jun-15	22-Apr-15	16-Sep-15	12-Jun-15	
Unit	3	3	3	3	4	4	4	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1966-4	BH1966-5	BH1966	BH1967	BH1967	BH1967	BH1971	BH1971-1	BH1971	Guideline <sup>1</sup>
Sampling Depth (m bgs)	11.89-13.41	13.41-14.94	Bulk	Bulk	Bulk	Bulk	7.77-9.30	7.77-9.30	Bulk	
Sample Date	12-Jun-15	12-Jun-15	28-Apr-15	16-Sep-15	11-Jun-15	26-Feb-15	16-Sep-15	15-Jun-15	02-Mar-15	
Unit	3	3	3	2	2	2	2	2	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<b>0.225</b>	<b>0.276</b>	<b>0.291</b>	<b>0.0795</b>	<b>0.0474</b>	<b>0.0670</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<b>0.0191</b>	<b>0.0224</b>	<b>0.0251</b>	0.0047	0.0035	0.0041	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<b>0.270</b>	<b>0.342</b>	<b>0.438</b>	<b>0.463</b>	<b>0.256</b>	<b>0.361</b>	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	0.0080	0.0097	0.0111	0.0086	0.0091	0.0291	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<b>2.3</b>	<b>3.1</b>	<b>1.8</b>	<b>1.4</b>	<b>1.4</b>	<b>2.2</b>	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	0.3	0.4	0.3	0.3	0.3	0.6	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1972	BH1972	BH1972	BH1973	BH1974	BH1974	BH1974	BH1975	BH1976	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	9.75-11.28	
Sample Date	21-Sep-15	11-Jun-15	07-Apr-15	04-Mar-15	16-Sep-15	11-Jun-15	27-Feb-15	27-Feb-15	16-Sep-15	
Unit	2	2	2	1	2	2	2	1	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<b>0.0198</b>	<b>0.0098</b>	<b>0.0095</b>	<b>0.0172</b>	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	0.0036	0.0016	0.0012	0.0019	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<b>0.153</b>	<b>0.0034</b>	<b>0.0033</b>	<b>0.0085</b>	0.0006	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	0.2660	0.0032	0.0017	0.0027	0.0029	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<b>1.1</b>	0.4	0.5	0.4	0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1976-1	BH1976-2	BH1976	BH1977	BH1977-1	BH1977	BH1978	BH1978	BH1978	Guideline <sup>1</sup>
Sampling Depth (m bgs)	9.75-11.28	11.28-12.80	Bulk	3.05-4.57	3.05-4.57	Bulk	Bulk	Bulk	Bulk	
Sample Date	15-Jun-15	15-Jun-15	01-Apr-15	22-Sep-15	18-Jun-15	19-Mar-15	21-Sep-15	11-Jun-15	27-Mar-15	
Unit	2	2	2	3	3	3,4,5	4,5	4,5	4,5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	0.0028	<b>0.0076</b>	<b>0.0024</b>	<0.0005	<0.0005	<0.0005	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1979	BH1979	BH1979	BH1980	BH1980	BH1980	BH1981	BH1981-1	BH1981-2	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	4.57-6.10	3.05-4.57	4.57-6.10	
Sample Date	17-Sep-15	11-Jun-15	09-Apr-15	22-Sep-15	11-Jun-15	09-Apr-15	22-Sep-15	18-Jun-15	18-Jun-15	
Unit	3	3	3	4	4	4	1	1	1	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>1.37</b>	<b>1.22</b>	<b>1.07</b>	<0.0005	<0.0005	<0.0005	0.0018	<b>0.0052</b>	<b>0.0061</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1981	BH1982	BH1982	BH1982	Guideline <sup>1</sup>	BH1983-1	BH1983	BH1984	BH1984-2	Guideline <sup>2</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk		12.80-14.32	Bulk	12.19-13.72	9.14-10.67	
Sample Date	27-Mar-15	21-Sep-15	11-Jun-15	01-Apr-15		15-Jun-15	12-May-15	15-Sep-15	15-Jun-15	
Unit	1	3	3	3		3	3	3	3	
Land Use <sup>3</sup>	R	R	R	R		C	C	C	C	
Parameter										
Benzene	<b>0.0864</b>	<b>10.7</b>	<b>13.8</b>	<b>13.1</b>	0.005	<0.0005	<0.0005	<b>0.0064</b>	0.0034	0.005
Toluene	<0.0003	<b>0.281</b>	<b>0.412</b>	<b>0.483</b>	0.021	<0.0003	<0.0003	0.0047	0.0025	0.021
Ethylbenzene	<0.0005	<b>0.438</b>	<b>0.286</b>	<b>0.353</b>	0.0024	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<0.0005	<b>1.00</b>	<b>0.984</b>	<b>1.56</b>	0.3	<0.0005	<0.0005	0.0103	0.0033	0.3
F1 minus BTEX (C6 - C10)	<0.1	0.3	<0.1	0.5	0.81	<0.1	<0.1	0.2	<0.1	2.2
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 3 Land Use abbreviations: R=Residential; C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1984-3	BH1984-4	BH1984	Guideline <sup>1</sup>	BH1985	BH1985-3	BH1985-4	BH1985-5	BH1985	Guideline <sup>2</sup>
Sampling Depth (m bgs)	10.67-12.19	12.19-13.72	Bulk		10.97-12.50	9.45-10.97	10.97-12.50	12.50-14.02	Bulk	
Sample Date	15-Jun-15	15-Jun-15	08-May-15		15-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	08-May-15	
Unit	3	3	3		3	3	3	3	3	
Land Use <sup>3</sup>	C	C	C		R	R	R	R	R	
Parameter										
Benzene	0.0033	0.0040	0.0017	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	0.0022	0.0024	0.0026	0.021	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	0.0024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	0.0035	0.0034	0.0051	0.3	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
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Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH510A	BH510A-3	BH510A	BH732	BH732-2	BH732-3	BH732-4	BH732	BH912	Guideline <sup>1</sup>
Sampling Depth (m bgs)	14.33-15.85	14.33-15.85	Bulk	7.32-8.84	5.79-7.32	7.32-8.84	8.84-10.36	Bulk	2.59-4.42	
Sample Date	04-Sep-15	19-Jun-15	08-Apr-15	03-Sep-15	19-Jun-15	19-Jun-15	19-Jun-15	13-Apr-15	04-Sep-15	
Unit	3	3	3	3,4	3,4	3,4	3,4	3,4	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	1.70	3.61	3.52	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005
Toluene	<b>0.259</b>	<b>1.97</b>	<b>1.33</b>	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<b>0.742</b>	<b>1.16</b>	<b>0.779</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<b>0.532</b>	<b>1.81</b>	<b>1.81</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	<b>3.2</b>	<b>3.2</b>	<b>3.1</b>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	0.3	0.2	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH912-1	BH912	BH1102	BH1102-3	BH1102	BH1701	BH1701	BH1701	BH1704	Guideline <sup>1</sup>
Sampling Depth (m bgs)	2.59-4.42	Bulk	10.67-12.19	10.67-12.19	Bulk	Bulk	Bulk	Bulk	10.67-12.19	
Sample Date	18-Jun-15	13-Apr-15	16-Sep-15	15-Jun-15	01-Apr-15	17-Sep-15	11-Jun-15	02-Apr-15	08-Sep-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>1.92</b>	0.005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<b>47.8</b>	0.021
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>7.97</b>	0.0024
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<b>69.0</b>	0.3
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<b>424</b>	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<b>20.8</b>	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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 Project 2015 Third Quarter Monitoring and Sampling  
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 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1704-2	BH1704	Guideline <sup>1</sup>
Sampling Depth (m bgs)	10.67-12.19	Bulk	
Sample Date	12-Jun-15	02-Apr-15	
Unit	3	3	
Land Use <sup>2</sup>	R	R	
Parameter			
Benzene	<b>1.26</b>	<b>0.806</b>	0.005
Toluene	<b>5.49</b>	<b>0.284</b>	0.021
Ethylbenzene	<b>0.381</b>	<b>0.179</b>	0.0024
Xylenes (Total)	<b>2.67</b>	<b>0.317</b>	0.3
F1 minus BTEX (C6 - C10)	0.3	0.5	0.81
F2 (C10 - C16)	<0.5	0.2	1.1

**Notes:**

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	EX1	EX1	EX1	EX2	EX2	EX2	EX3	EX3	EX3	Guideline <sup>1</sup>
Sampling Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	
Sample Date	03-Sep-15	11-Jun-15	17-Apr-15	17-Sep-15	11-Jun-15	15-Apr-15	03-Sep-15	11-Jun-15	15-Apr-15	
Unit										
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>7.66</b>	<b>10.2</b>	<b>10.0</b>	<b>1.95</b>	<b>2.01</b>	<b>1.56</b>	0.0015	0.0016	<b>0.078</b>	0.005
Toluene	<b>2.10</b>	<b>3.05</b>	<b>3.61</b>	<b>0.0399</b>	<b>0.031</b>	<b>0.0254</b>	<0.0003	<0.0003	<0.0003	0.021
Ethylbenzene	<b>0.330</b>	<b>0.445</b>	<b>0.478</b>	<b>0.867</b>	<b>0.791</b>	<b>0.609</b>	<0.0005	<0.0005	<0.0005	0.0024
Xylenes (Total)	<b>0.891</b>	<b>1.06</b>	<b>1.26</b>	<b>0.635</b>	<b>0.758</b>	<b>0.501</b>	<0.0005	<0.0005	<0.0005	0.3
F1 minus BTEX (C6 - C10)	0.2	<b>3.6</b>	0.2	0.2	0.1	0.2	<0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	0.2	0.3	0.2	0.1	0.2	0.2	<0.1	<0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	EX4	EX4-1	EX4	EX5	EX5-1	EX5	EX6	EX6	EX6	Guideline <sup>1</sup>
Sampling Depth (m bgs)	10.36-11.89	10.36-11.89	Bulk	10.67-12.19	10.67-12.19	Bulk	Bulk	Bulk	Bulk	
Sample Date	17-Sep-15	19-Jun-15	16-Apr-15	17-Sep-15	19-Jun-15	17-Apr-15	17-Sep-15	11-Jun-15	17-Apr-15	
Unit										
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>3.36</b>	<b>3.95</b>	<b>2.21</b>	<b>2.57</b>	<b>3.61</b>	<b>2.72</b>	<b>0.497</b>	<b>0.426</b>	<b>0.389</b>	0.005
Toluene	<b>1.60</b>	<b>2.17</b>	<b>0.684</b>	<b>5.62</b>	<b>7.64</b>	<b>7.29</b>	<b>0.170</b>	<b>0.156</b>	<b>0.148</b>	0.021
Ethylbenzene	<b>1.06</b>	<b>0.828</b>	<b>0.591</b>	<b>1.09</b>	<b>1.36</b>	<b>1.38</b>	<b>0.790</b>	<b>0.664</b>	<b>0.674</b>	0.0024
Xylenes (Total)	<b>8.57</b>	<b>7.19</b>	<b>6.88</b>	<b>3.69</b>	<b>4.35</b>	<b>5.24</b>	<b>0.971</b>	<b>0.939</b>	<b>1.01</b>	0.3
F1 minus BTEX (C6 - C10)	<b>5.3</b>	<b>5.2</b>	<b>3.8</b>	<b>5.4</b>	<b>4.6</b>	<b>4.0</b>	<b>1.6</b>	<b>1.6</b>	<b>2.1</b>	0.81
F2 (C10 - C16)	0.9	0.8	0.8	0.8	0.6	1.0	0.4	0.5	0.5	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 2 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	EX7	EX7-1	EX7	Guideline <sup>1</sup>
Sampling Depth (m bgs)	11.58-13.11	11.58-13.11	Bulk	
Sample Date	17-Sep-15	19-Jun-15	17-Apr-15	
Unit				
Land Use <sup>2</sup>	R	R	R	
Parameter				
Benzene	<b>2.45</b>	<b>1.49</b>	<b>3.08</b>	0.005
Toluene	<b>0.118</b>	<b>0.246</b>	<b>0.155</b>	0.021
Ethylbenzene	<b>0.778</b>	<b>1.18</b>	<b>1.01</b>	0.0024
Xylenes (Total)	<b>1.50</b>	<b>3.23</b>	<b>1.83</b>	0.3
F1 minus BTEX (C6 - C10)	0.6	<b>2.9</b>	<b>2.8</b>	0.81
F2 (C10 - C16)	0.6	<b>1.2</b>	0.7	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1901	BH1902	BH1903	BH1904	BH1905	BH1905	BH1905	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	
Sample Date	06-Mar-15	23-Feb-15	26-Mar-15	17-Mar-15	08-Sep-15	11-Jun-15	25-Feb-15	
Unit	5	5	5	3	1	1	1	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	
Parameter								
2-Methylnaphthalene	-	-	-	-	0.0416	0.104	-	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00107	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	NG
Anthracene	<0.00001	<0.00001	<0.000010	<0.000010	<b>0.00016</b>	<b>0.00007</b>	<b>0.00016</b>	0.000012
B[a]P TPE	0.00001	0.00001	0.00001	0.00001	<b>0.000103</b>	0.00001	<b>0.00007</b>	0.00001
Benzo[a]anthracene	<0.00001	<0.00001	<0.000010	<0.000010	<b>0.00020</b>	<0.000010	<b>0.00016</b>	0.000018
Benzo[a]pyrene	<0.000008	<0.000008	<0.000008	<0.000008	<b>0.00006</b>	<0.000008	<b>0.0000405</b>	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00006	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	0.00010	<0.00001	0.00002	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	0.00015	<0.00001	0.00009	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<b>0.00040</b>	<b>0.00008</b>	<b>0.00038</b>	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	0.00054	0.00045	0.00086	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	NG
Naphthalene	<0.00001	0.00002	0.00005	<0.00001	<b>0.110</b>	<b>0.214</b>	<b>0.00494</b>	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<b>0.00091</b>	<b>0.00051</b>	<b>0.00101</b>	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<b>0.00062</b>	<b>0.00010</b>	<b>0.00047</b>	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.

2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
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 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1906	BH1906-1	BH1906-2	BH1906-3	BH1906-4	BH1906	BH1907	BH1907-3	BH1907-4	Guideline <sup>1</sup>
Depth (m bgs)	14.63-16.15	11.58-13.10	13.10-14.63	14.63-16.15	16.15-17.68	Bulk	11.89-13.41	11.89-13.41	13.41-14.94	
Sample Date	16-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	08-Apr-15	16-Sep-15	15-Jun-15	15-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	<0.00001	0.00001	0.00001	<0.00001	0.00001	-	0.00017	0.00062	0.00036	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.0000096	0.00001	0.00001	<0.00001	<0.00001	0.00001	0.0000096	0.00001	0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000007	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	0.00001	0.00001	0.00002	<0.00001	0.00001	<0.00001	<b>0.00250</b>	<b>0.00631</b>	<b>0.00380</b>	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1907	BH1908	BH1908-1	BH1908-2	BH1908	BH1910	BH1910-1	BH1910-2	BH1910-3	Guideline <sup>2</sup>
Depth (m bgs)	Bulk	12.19-13.72	12.19-13.72	13.72-15.24	Bulk	10.97-12.50	10.97-12.50	12.50-14.02	14.02-15.54	
Sample Date	30-Apr-15	16-Sep-15	12-Jun-15	12-Jun-15	30-Apr-15	16-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>3</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	0.00009	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.00001	0.0000096	0.00001	0.00001	0.00001	0.0000096	<0.00001	<0.00001	<0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000007	<0.000008	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<b>0.00121</b>	<0.00001	0.00003	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1910-4	BH1911	BH1911-3	BH1911-4	BH1912	BH1912-1	BH1912-2	BH1912-3	BH1912-4	Guideline <sup>1</sup>
Depth (m bgs)	15.54-17.07	15.54-17.07	14.02-15.54	15.54-17.07	13.41-14.94	13.41-14.94	14.94-16.46	16.46-17.98	17.98-19.51	
Sample Date	15-Jun-15	16-Sep-15	15-Jun-15	15-Jun-15	08-Sep-15	17-Jun-15	17-Jun-15	17-Jun-15	17-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	0.00001	0.00001	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00001	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	<0.00001	0.0000096	<0.00001	<0.00001	0.0000096	<0.00001	<0.00001	<0.00001	<0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000007	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	0.00002	0.00002	<0.00001	0.00001	0.00003	0.00004	0.00004	0.00005	0.00005	0.001
Phenanthrene	0.00003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



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 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1912	BH1913	BH1913-1	BH1913	BH1914	BH1914	BH1914	BH1915	BH1915-1	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	6.40-7.92	6.40-7.92	Bulk	Bulk	Bulk	Bulk	14.94-16.46	10.36-11.89	
Sample Date	10-Mar-15	08-Sep-15	17-Jun-15	26-Feb-15	08-Sep-15	17-Jun-15	26-Feb-15	08-Sep-15	17-Jun-15	
Unit	3	2	2	2	1	1	1	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	-	<0.00001	<0.00001	-	<0.00001	<0.00001	-	0.0212	0.0263	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.00005	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	<0.00005	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.00001	0.0000096	<0.00001	0.00001	0.0000096	<0.00001	0.00001	0.0000096	<0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000007	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000007	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00007	0.00009	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	0.00005	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<b>0.0245</b>	<b>0.0296</b>	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004	0.00005	0.00005	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1915-2	BH1915-3	BH1915-4	BH1915	BH1916	BH1916	BH1924	BH1924-1	BH1924	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	13.41-14.94	14.94-16.46	Bulk	Bulk	Bulk	14.94-16.46	14.94-16.46	Bulk	
Sample Date	17-Jun-15	17-Jun-15	17-Jun-15	26-Feb-15	08-Sep-15	26-Feb-15	16-Sep-15	19-Jun-15	07-May-15	
Unit	3	3	3	3	1	1	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	0.0221	0.0235	0.0183	-	<0.00001	-	<0.00001	0.00002	0.00002	NG
Acenaphthene	0.00009	0.0001	<0.00001	0.00015	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00001	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	<0.00001	<0.00001	<0.00001	0.00001	0.0000096	0.00001	0.0000096	0.00001	0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000007	<0.000008	<0.000007	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	0.00008	0.00008	0.00006	0.00014	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<b>0.0233</b>	<b>0.0248</b>	<b>0.0215</b>	<b>0.0361</b>	<0.00001	<0.00001	<b>0.00208</b>	<b>0.00527</b>	<b>0.00652</b>	0.001
Phenanthrene	0.00003	0.00005	<0.00001	0.00008	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1926-3	BH1926-4	BH1926	BH1928	BH1928-3	BH1933	BH1933-3	BH1933-4	BH1933	Guideline <sup>1</sup>
Depth (m bgs)	11.28-12.80	12.80-14.33	Bulk	12.50-14.02	9.45-10.97	11.89-13.41	11.89-13.41	13.41-14.94	Bulk	
Sample Date	16-Jun-15	16-Jun-15	30-Mar-15	18-Sep-15	24-Sep-15	15-Sep-15	16-Jun-15	16-Jun-15	12-Mar-15	
Unit	2	3	2, 3, 4	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00001	<0.0001	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.00001	<0.000010	<0.00005	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	<0.00001	<0.00001	0.00001	0.0000096	0.0000096	<0.000010	<0.00001	<0.00001	0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.00001	<0.000010	0.0000096	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000008	<0.000008	<0.000007	<0.000007	<0.000010	<0.000008	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000007	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.00001	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000008	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<0.00001	<0.00001	<0.00001	0.00003	0.00001	<0.00001	<0.00001	0.00001	<0.00001	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1934	BH1934	BH1934	BH1935	BH1935	BH1935	BH1952	BH1952-4	BH1952-5	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	12.50-14.02	12.50-14.02	14.02-15.54	
Sample Date	16-Sep-15	11-Jun-15	23-Feb-15	16-Sep-15	11-Jun-15	23-Feb-15	04-Sep-15	16-Jun-15	16-Jun-15	
Unit	2	2	2	1	1	1	2	2	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	<0.00001	<0.00001	-	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00005	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.0000096	0.00001	0.00001	0.0000096	0.00001	0.00001	0.0000096	<0.00001	<0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000007	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1952	BH1954	BH1956	BH1956-3	Guideline <sup>1</sup>	BH1957	BH1958	BH1959	Guideline <sup>2</sup>
Depth (m bgs)	Bulk	Bulk	11.89-13.41	10.36-11.89		Bulk	Bulk	Bulk	
Sample Date	05-May-15	26-Mar-15	18-Sep-15	24-Sep-15		19-Mar-15	19-Mar-15	26-Mar-15	
Unit	2, 3	3, 4, 5	3	3		3	3	3	
Land Use <sup>3</sup>	R	R	R	R	C	C	C		
Parameter									
2-Methylnaphthalene	<0.00001	-	0.00001	<0.00001	NG	-	-	-	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	0.0058	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.0001	<0.00005	<0.00005	NG	<0.0001	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.00001	<0.000010	0.000012	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.00001	0.00001	0.0000096	0.0000096	0.00001	0.00001	0.00001	0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.00001	<0.000010	0.000018	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000008	<0.000007	<0.000007	0.000015	<0.000008	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	NG	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	0.000004	<0.00001	<0.00001	<0.00001	0.000004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	0.003	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<0.00001	<0.00001	0.00003	0.00002	0.001	<0.00001	<0.00001	<0.00001	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	0.0004	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	0.000025	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	NG	<0.0001	<0.0001	<0.0001	NG

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 3 Land Use abbreviations: R=Residential; C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1966	BH1966-3	BH1966-4	BH1966-5	BH1966	BH1967	BH1967	BH1967	BH1971	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	10.36-11.89	11.89-13.41	13.41-14.94	Bulk	Bulk	Bulk	Bulk	7.77-9.30	
Sample Date	16-Sep-15	12-Jun-15	12-Jun-15	12-Jun-15	28-Apr-15	16-Sep-15	11-Jun-15	26-Feb-15	16-Sep-15	
Unit	3	3	3	3	3	2	2	2	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00005	0.0001	-	0.00008	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	<0.00005	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.0000096	0.00001	0.00001	0.00001	0.00001	0.0000096	0.00001	0.00001	0.0000096	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000007	<0.000008	<0.000008	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000007	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00082	<b>0.00137</b>	<b>0.00109</b>	<b>0.00157</b>	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1971-1	BH1971	BH1974	BH1974	BH1974	BH1975	BH1976	BH1976-1	BH1976-2	BH1977	Guideline <sup>1</sup>
Depth (m bgs)	7.77-9.30	Bulk	Bulk	Bulk	Bulk	Bulk	9.75-11.28	9.75-11.28	11.28-12.80	Bulk	
Sample Date	15-Jun-15	02-Mar-15	16-Sep-15	11-Jun-15	27-Feb-15	27-Feb-15	16-Sep-15	15-Jun-15	15-Jun-15	19-Mar-15	
Unit	2	2	2	2	2	1	2	2	2	3, 4, 5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	R	
Parameter											
2-Methylnaphthalene	0.00078	-	<0.00001	<0.00001	-	-	<0.00001	<0.00001	<0.00001	-	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	NG
Anthracene	<0.000010	<0.000010	<0.000010	<0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.00001	0.00001	0.0000096	0.00001	0.00001	0.00001	0.0000096	<0.00001	<0.00001	0.00001	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	<0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000008	<0.000007	<0.000008	<0.000008	<0.000008	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<b>0.00557</b>	<b>0.00461</b>	0.00002	0.00004	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 3 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1983-1	BH1983	BH1984	Guideline <sup>1</sup>	BH1985	BH1704	Guideline <sup>2</sup>
Depth (m bgs)	12.80-14.32	Bulk	Bulk		Bulk	10.67-12.19	
Sample Date	15-Jun-15	12-May-15	08-May-15		08-May-15	08-Sep-15	
Unit	3	3	3		3	3	
Land Use <sup>3</sup>	C	C	C		R	R	
Parameter							
2-Methylnaphthalene	<0.00001	<0.00001	<0.00001	NG	<0.00001	0.615	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	0.0058	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	NG
Acridine	<0.0001	<0.0001	<0.0001	NG	<0.0001	<0.00005	NG
Anthracene	<0.000010	<0.000010	<0.000010	0.000012	<0.000010	<b>0.00049</b>	0.000012
B[a]P TPE	0.00001	<0.00001	0.00001	0.00001	0.00001	0.0000096	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	<0.000010	0.000018	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000008	<0.000008	<0.000008	0.000015	<0.000008	<0.000007	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	NG	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	0.00004	<0.00001	<b>0.00073</b>	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	0.003	<0.00001	<b>0.00475</b>	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	NG	<0.00001	<0.00001	NG
Naphthalene	<0.00001	<0.00001	<0.00001	0.001	<0.00001	<b>0.860</b>	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	0.0004	<0.00001	<b>0.00705</b>	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	0.000025	<0.00001	<b>0.00224</b>	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	NG	<0.0001	<0.0001	NG

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

- not measured

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1901	BH1901-1	BH1901-2	BH1901	BH1902	BH1902-1	BH1902-2	BH1902-3	BH1902-4	Guideline <sup>1</sup>
Depth (m bgs)	19.66-21.18	19.66-21.18	21.18-22.71	Bulk	22.71-24.23	19.66-21.18	21.18-22.71	22.71-24.23	24.23-25.76	
Sample Date	15-Sep-15	16-Jun-15	16-Jun-15	06-Mar-15	15-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	
Unit	5	5	5	5	5	5	5	5	5	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	C	C	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.002

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface.  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1902-5	BH1902-6	BH1902	BH1903	BH1903-1	BH1903	BH1904	BH1904-1	BH1904	Guideline <sup>1</sup>
Depth (m bgs)	25.76-27.28	27.28-28.80	Bulk	23.62-25.15	23.62-25.15	Bulk	12.80-14.33	12.80-14.33	Bulk	
Sample Date	15-Jun-15	15-Jun-15	23-Feb-15	08-Sep-15	16-Jun-15	26-Mar-15	15-Sep-15	15-Jun-15	17-Mar-15	
Unit	5	5	5	5	5	5	3	3	3	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	C	C	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2 Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.002

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.

**Yellow** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1905	BH1905	BH1905	Guideline <sup>1</sup>	BH1906	BH1906-1	BH1906-2	BH1906-3	BH1906-4	Guideline <sup>2</sup>
Depth (m bgs)	Bulk	Bulk	Bulk		14.63-16.15	11.58-13.10	13.10-14.63	14.63-16.15	16.15-17.68	
Sample Date	08-Sep-15	11-Jun-15	25-Feb-15		16-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	
Unit	1	1	1		3	3	3	3	3	
Land Use <sup>3</sup>	C	C	C	R	R	R	R	R		
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.075</b>	<b>0.076</b>	<b>0.076</b>	0.005	<b>0.042</b>	<b>0.032</b>	<b>0.034</b>	<b>0.037</b>	<b>0.032</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	NG	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	0.19	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	0.072	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	0.002	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1906	BH1907	BH1907-3	BH1907-4	BH1907	BH1908	BH1908-1	BH1908-2	BH1908	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	11.89-13.41	11.89-13.41	13.41-14.94	Bulk	12.19-13.72	12.19-13.72	13.72-15.24	Bulk	
Sample Date	08-Apr-15	16-Sep-15	15-Jun-15	15-Jun-15	30-Apr-15	16-Sep-15	12-Jun-15	12-Jun-15	28-Apr-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.040</b>	<0.001	<0.001	<0.001	<b>0.025</b>	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD



Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1910	BH1910-1	BH1910-2	BH1910-3	BH1910-4	BH1910	BH1911	BH1911-3	BH1911-4	Guideline <sup>1</sup>
Depth (m bgs)	10.97-12.50	10.97-12.50	12.50-14.02	14.02-15.54	15.54-17.07	Bulk	15.54-17.07	14.02-15.54	15.54-17.07	
Sample Date	16-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	15-Jun-15	22-Apr-15	16-Sep-15	15-Jun-15	15-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.032</b>	<b>0.030</b>	<b>0.025</b>	<b>0.030</b>	<b>0.030</b>	<b>0.040</b>	<b>0.035</b>	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1911	BH1912	BH1912-1	BH1912-2	BH1912-3	BH1912-4	BH1912	BH1913	BH1913-1	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	13.41-14.94	13.41-14.94	14.94-16.46	16.46-17.98	17.98-19.51	Bulk	6.40-7.92	6.40-7.92	
Sample Date	09-Apr-15	08-Sep-15	17-Jun-15	17-Jun-15	17-Jun-15	17-Jun-15	10-Mar-15	08-Sep-15	17-Jun-15	
Unit	3	3	3	3	3	3	3	2	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.031</b>	<b>0.041</b>	<b>0.035</b>	<b>0.038</b>	<0.001	<b>0.037</b>	<b>0.048</b>	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1913	BH1914	BH1914	BH1914	BH1915	BH1915-1	BH1915-2	BH1915-3	BH1915-4	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	14.94-16.46	10.36-11.89	11.89-13.41	13.41-14.94	14.94-16.46	
Sample Date	26-Feb-15	08-Sep-15	17-Jun-15	26-Feb-15	08-Sep-15	17-Jun-15	17-Jun-15	17-Jun-15	17-Jun-15	
Unit	2	1	1	1	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<b>0.024</b>	<b>0.041</b>	<b>0.054</b>	<b>0.045</b>	<b>0.055</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1915	BH1916	BH1916	BH1916	BH1917	BH1917-4	BH1917	BH1918	BH1918-3	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	13.41-14.94	13.41-14.94	Bulk	8.84-10.36	8.84-10.36	
Sample Date	26-Feb-15	08-Sep-15	17-Jun-15	26-Feb-15	04-Sep-15	18-Jun-15	08-May-15	04-Sep-15	16-Jun-15	
Unit	3	1	1	1	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.044</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1918-4	BH1918	BH1919	BH1919-3	BH1919-4	BH1919-5	BH1919	BH1921	BH1921-2	Guideline <sup>1</sup>
Depth (m bgs)	10.36-11.89	Bulk	11.28-12.80	9.75-11.28	11.28-12.80	12.80-14.33	Bulk	11.89-13.41	10.36-11.89	
Sample Date	16-Jun-15	31-Mar-15	04-Sep-15	18-Jun-15	18-Jun-15	18-Jun-15	06-May-15	04-Sep-15	19-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<b>0.084</b>	<b>0.099</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1921-3	BH1921-4	BH1921-5	BH1921	BH1922	BH1922-3	BH1922-4	BH1922-5	BH1922	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	13.41-14.94	14.94-16.46	Bulk	15.54-17.07	10.97-12.50	12.50-14.02	14.02-15.54	Bulk	
Sample Date	19-Jun-15	19-Jun-15	22-Jun-15	28-Apr-15	03-Sep-15	19-Jun-15	19-Jun-15	19-Jun-15	05-May-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.092</b>	<b>0.097</b>	<b>0.089</b>	<b>0.083</b>	0.003	<0.001	<b>0.033</b>	<b>0.040</b>	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1923	BH1923-3	BH1923-4	BH1923	BH1924	BH1924-1	BH1924	BH1925	BH1925-1	Guideline <sup>1</sup>
Depth (m bgs)	10.67-12.19	10.67-12.19	12.19-13.72	Bulk	14.94-16.46	14.94-16.46	Bulk	16.76-18.29	16.76-18.29	
Sample Date	03-Sep-15	12-Jun-15	12-Jun-15	02-Apr-15	16-Sep-15	19-Jun-15	07-May-15	04-Sep-15	12-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<b>0.189</b>	<b>0.271</b>	<b>0.144</b>	<b>0.055</b>	<b>0.041</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1925	BH1926-3	BH1926-4	BH1926	BH1927	BH1927-2	BH1927-3	BH1927-4	BH1927-5	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	11.28-12.80	12.80-14.33	Bulk	15.24-16.76	13.72-15.24	15.24-16.76	16.76-18.29	18.29-19.81	
Sample Date	07-May-15	16-Jun-15	16-Jun-15	08-May-15	04-Sep-15	16-Jun-15	16-Jun-15	16-Jun-15	16-Jun-15	
Unit	3	3	3	2,3,4	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.040</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD



Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1927	BH1928	BH1928-3	BH1928-3	BH1928-4	BH1928	BH1929	BH1929-3	BH1929-4	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	12.50-14.02	9.45-10.97	9.45-10.97	10.97-12.50	Bulk	8.53-10.06	8.53-10.06	10.06-11.58	
Sample Date	01-May-15	18-Sep-15	24-Sep-15	16-Jun-15	17-Jun-15	05-May-15	03-Sep-15	18-Jun-15	18-Jun-15	
Unit	3	3	3	3	3	3,4	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<b>0.198</b>	<b>0.208</b>	<b>0.208</b>	<b>0.178</b>	<b>0.243</b>	<b>0.083</b>	<b>0.075</b>	<b>0.080</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1929-5	BH1929	BH1930	BH1930-5	BH1930-6	BH1930	BH1933	BH1933-3	BH1933-4	Guideline <sup>1</sup>
Depth (m bgs)	11.58-13.11	Bulk	14.02-15.54	12.50-14.02	14.02-15.54	Bulk	11.89-13.41	11.89-13.41	13.41-14.94	
Sample Date	18-Jun-15	04-May-15	22-Sep-15	16-Jun-15	16-Jun-15	01-May-15	15-Sep-15	16-Jun-15	16-Jun-15	
Unit	3	3	3	3	3	2,3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.078</b>	<b>0.093</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1933	BH1934	BH1934	BH1934	BH1935	BH1935	BH1935	BH1936	BH1936-3	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	8.38-9.91	8.38-9.91	
Sample Date	12-Mar-15	16-Sep-15	11-Jun-15	23-Feb-15	16-Sep-15	11-Jun-15	23-Feb-15	03-Sep-15	18-Jun-15	
Unit	3	2	2	2	1	1	1	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<b>0.091</b>	<b>0.127</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1936-4	BH1936	BH1937	BH1937-1	BH1937	BH1939	BH1939	BH1939	BH1941	Guideline <sup>1</sup>
Depth (m bgs)	9.91-11.43	Bulk	8.84-10.36	8.84-10.36	Bulk	Bulk	Bulk	Bulk	7.32-8.84	
Sample Date	18-Jun-15	04-Mar-15	22-Sep-15	18-Jun-15	08-Apr-15	21-Sep-15	11-Jun-15	01-Apr-15	04-Sep-15	
Unit	3	3	4, 5	4, 5	4, 5	4	4	4	5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	N/A	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.138</b>	<b>0.123</b>	0.002	<0.001	0.004	<b>0.167</b>	<b>0.154</b>	<b>0.124</b>	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1941-1	BH1941	BH1942	BH1942-1	BH1942-2	BH1942	BH1943	BH1943-1	BH1943-2	Guideline <sup>1</sup>
Depth (m bgs)	7.32-8.84	Bulk	4.42-5.94	4.42-5.94	5.94-7.47	Bulk	7.32-8.84	7.32-8.84	8.84-10.36	
Sample Date	16-Jun-15	13-Apr-15	04-Sep-15	18-Jun-15	18-Jun-15	01-Apr-15	04-Sep-15	18-Jun-15	18-Jun-15	
Unit	5	5	5	5	5	5	4, 5	4, 5	4, 5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<b>0.016</b>	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface.  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1943-3	BH1943	BH1944	BH1944	BH1944	BH1945	BH1945	BH1945	BH1946	Guideline <sup>1</sup>
Depth (m bgs)	10.36-11.89	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	
Sample Date	18-Jun-15	15-Apr-15	17-Sep-15	11-Jun-15	13-Apr-15	21-Sep-15	11-Jun-15	27-Mar-15	21-Sep-15	
Unit	4, 5	4, 5	3	3	3	5	5	5	5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<b>0.017</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	0.023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface.  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1946	BH1946	BH1947	BH1947	BH1947	BH1948	BH1948-1	BH1948	BH1949	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	3.96-5.49	3.96-5.49	Bulk	Bulk	
Sample Date	11-Jun-15	01-Apr-15	21-Sep-15	11-Jun-15	10-Apr-15	04-Sep-15	16-Jun-15	10-Apr-15	02-Apr-15	
Unit	5	5	5	5	5	5	5	5	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1950A	BH1950A	BH1950A	BH1951	BH1951	BH1951	BH1952	BH1952-4	BH1952-5	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	12.50-14.02	12.50-14.02	14.02-15.54	
Sample Date	17-Sep-15	11-Jun-15	06-May-15	21-Sep-15	11-Jun-15	01-Apr-15	04-Sep-15	16-Jun-15	16-Jun-15	
Unit	2	2	2	5	5	5	2	2	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1952	BH1953	BH1953-3	BH1953-4	BH1953	BH1954	BH1954-1	BH1954-2	BH1954	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	15.54-17.07	14.33-15.85	15.85-17.37	Bulk	5.49-7.01	5.49-7.01	7.01-8.53	Bulk	
Sample Date	05-May-15	04-Sep-15	16-Jun-15	16-Jun-15	30-Mar-15	22-Sep-15	18-Jun-15	18-Jun-15	26-Mar-15	
Unit	2, 3	3	3	3	3	3	3	3	3, 4, 5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1955	BH1955	BH1956	BH1956-3	BH1956-3	BH1956-4	BH1956	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	11.89-13.41	10.36-11.89	8.84-10.36	10.36-11.89	Bulk	
Sample Date	11-Jun-15	20-Mar-15	18-Sep-15	24-Sep-15	18-Jun-15	18-Jun-15	10-Apr-15	
Unit	5	5	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	
Parameter								
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<b>0.066</b>	<b>0.057</b>	<0.001	<b>0.034</b>	<b>0.023</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1957	BH1957-4	BH1957	BH1958	BH1958-4	BH1958	BH1959	BH1959-3	BH1959-4	Guideline <sup>1</sup>
Depth (m bgs)	10.36-11.89	10.36-11.89	Bulk	10.36-11.89	10.36-11.89	Bulk	10.97-12.50	9.45-10.97	10.97-12.50	
Sample Date	15-Sep-15	15-Jun-15	19-Mar-15	15-Sep-15	16-Jun-15	19-Mar-15	08-Sep-15	16-Jun-15	16-Jun-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	C	C	C	C	C	C	C	C	C	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.002
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.002

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 Land Use abbreviations: C=Commercial.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1959-5	BH1959	Guideline <sup>1</sup>	BH1961	BH1961-1	BH1961	BH1962	BH1962	BH1962	Guideline <sup>2</sup>
Depth (m bgs)	12.50-14.02	Bulk		8.53-10.06	8.53-10.06	Bulk	Bulk	Bulk	Bulk	
Sample Date	16-Jun-15	26-Mar-15		04-Sep-15	16-Jun-15	22-Apr-15	21-Sep-15	11-Jun-15	10-Apr-15	
Unit	3			3	3	3, 4, 5	3	3	3	
Land Use <sup>3</sup>	C	C		R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	NG	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2 Dichloroethylene	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	0.19	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	0.072	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	0.002	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1963	BH1963-1	BH1963-2	BH1963	BH1964	BH1964	BH1964	BH1966	BH1966-3	Guideline <sup>1</sup>
Depth (m bgs)	6.71-8.23	5.49-6.71	6.71-8.23	Bulk	Bulk	Bulk	Bulk	11.89-13.41	10.36-11.89	
Sample Date	04-Sep-15	16-Jun-15	17-Jun-15	10-Apr-15	21-Sep-15	11-Jun-15	22-Apr-15	16-Sep-15	12-Jun-15	
Unit	3	3	3	3	4	4	4	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1966-4	BH1966-5	BH1966	BH1967	BH1967	BH1967	BH1971	BH1971-1	BH1971	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	13.41-14.94	Bulk	Bulk	Bulk	Bulk	7.77-9.30	7.77-9.30	Bulk	
Sample Date	12-Jun-15	12-Jun-15	28-Apr-15	16-Sep-15	11-Jun-15	26-Feb-15	16-Sep-15	15-Jun-15	02-Mar-15	
Unit	3	3	3	2	2	2	2	2	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<b>0.035</b>	<b>0.032</b>	<b>0.029</b>	<b>0.142</b>	<b>0.076</b>	<b>0.148</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1972	BH1972	BH1972	BH1973	BH1974	BH1974	BH1974	BH1975	BH1976	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	9.75-11.28	
Sample Date	21-Sep-15	11-Jun-15	07-Apr-15	04-Mar-15	16-Sep-15	11-Jun-15	27-Feb-15	27-Feb-15	16-Sep-15	
Unit	2	2	2	1	2	2	2	1	2	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	0.025	<b>0.081</b>	<b>0.041</b>	<b>0.092</b>	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
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Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1976-1	BH1976-2	BH1976	BH1977	BH1977-1	BH1977	BH1978	BH1978	BH1978	Guideline <sup>1</sup>
Depth (m bgs)	9.75-11.28	11.28-12.80	Bulk	3.05-4.57	3.05-4.57	Bulk	Bulk	Bulk	Bulk	
Sample Date	15-Jun-15	15-Jun-15	01-Apr-15	22-Sep-15	18-Jun-15	19-Mar-15	21-Sep-15	11-Jun-15	27-Mar-15	
Unit	2	2	2	3	3	3, 4, 5	4, 5	4, 5	4, 5	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1979	BH1979	BH1979	BH1980	BH1980	BH1980	BH1981	BH1981-1	BH1981-2	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	4.57-6.10	3.05-4.57	4.57-6.10	
Sample Date	17-Sep-15	11-Jun-15	09-Apr-15	22-Sep-15	11-Jun-15	09-Apr-15	22-Sep-15	18-Jun-15	18-Jun-15	
Unit	3	3	3	4	4	4	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	0.005	0.001	<0.001	<0.001	<0.001	<0.001	<b>0.015</b>	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2 Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1981	BH1982	BH1982	BH1982	Guideline <sup>1</sup>	BH1983-1	BH1983	BH1984	BH1984-2	Guideline <sup>2</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk		12.80-14.32	Bulk	12.19-13.72	9.14-10.67	
Sample Date	27-Mar-15	21-Sep-15	11-Jun-15	01-Apr-15		15-Jun-15	12-May-15	15-Sep-15	15-Jun-15	
Unit	3	3	3	3		3	3	3	3	
Land Use <sup>3</sup>	R	R	R	R		C	C	C	C	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	N/A	NG	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	0.003	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.028</b>	<b>0.177</b>	<b>0.159</b>	<b>0.124</b>	0.005	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	NG	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	0.00057	<0.0005	<0.0005	<0.0005	<0.0005	0.002
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2 Dichloroethylene	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	0.19	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	0.05	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	0.072	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	0.03	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	0.0011	<0.0008	<0.0008	<0.0008	<0.0008	0.002

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 3 Land Use abbreviations: R=Residential; C=Commercial.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1984-3	BH1984-4	BH984	Guideline <sup>1</sup>	BH1985	BH1985-3	BH1985-4	BH1985-5	BH1985	Guideline <sup>2</sup>
Depth (m bgs)	10.67-12.19	12.19-13.72	Bulk		10.97-12.50	9.45-10.97	10.97-12.50	12.50-14.02	Bulk	
Sample Date	15-Jun-15	15-Jun-15	08-May-15		15-Sep-15	15-Jun-15	15-Jun-15	15-Jun-15	08-May-15	
Unit	3	3	3		3	3	3	3	3	
Land Use <sup>3</sup>	C	C	C		R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	NG	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2 Dichloroethylene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	0.19	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	NG	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	0.072	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	NG	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	0.002	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for commercial land use and coarse-grained soil.
- 2 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 3 Land Use abbreviations: C=Commercial; R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH510A	BH510A-3	BH510A	BH732	BH732-2	BH732-3	BH732-4	BH732	BH912	Guideline <sup>1</sup>
Depth (m bgs)	14.33-15.85	14.33-15.85	Bulk	7.32-8.84	5.79-7.32	7.32-8.84	8.84-10.36	Bulk	2.59-4.42	
Sample Date	04-Sep-15	19-Jun-15	08-Apr-15	03-Sep-15	19-Jun-15	19-Jun-15	19-Jun-15	13-Apr-15	04-Sep-15	
Unit	3	3	3	3,4	3,4	3,4	3,4	3,4	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.037</b>	<b>0.036</b>	<b>0.058</b>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH912-1	BH912	BH1102	BH1102-3	BH1102	BH1701	BH1701	BH1701	BH1704	Guideline <sup>1</sup>
Depth (m bgs)	2.59-4.42	Bulk	10.67-12.19	10.67-12.19	Bulk	Bulk	Bulk	Bulk	10.67-12.19	
Sample Date	18-Jun-15	13-Apr-15	16-Sep-15	15-Jun-15	01-Apr-15	17-Sep-15	11-Jun-15	02-Apr-15	08-Sep-15	
Unit	3	3	3	3	3	3	3	3	3	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	0.0007
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
cis-1,2 Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.08	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

**Bold** Indicates that the detection limit was greater than the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1704-2	BH1704	Guideline <sup>1</sup>
Depth (m bgs)	10.67-12.19	Bulk	
Sample Date	12-Jun-15	02-Apr-15	
Unit	3	3	
Land Use <sup>2</sup>	R	R	
Parameter			
1,1,1,2-Tetrachloroethane	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.058</b>	<b>0.042</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	NG
Acetone	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Yellow** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	EX1	EX1	EX1	EX2	EX2	EX2	EX3	EX3	EX3	Guideline <sup>1</sup>
Depth (m bgs)	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	
Sample Date	03-Sep-15	11-Jun-15	17-Apr-15	17-Sep-15	11-Jun-15	15-Apr-15	03-Sep-15	11-Jun-15	15-Apr-15	
Unit										
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.086</b>	<b>0.110</b>	<b>0.136</b>	<b>0.048</b>	<b>0.047</b>	<b>0.042</b>	<0.001	<0.001	<b>0.008</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	EX4	EX4-1	EX4	EX5	EX5-1	EX5	EX6	EX6	EX6	Guideline <sup>1</sup>
Depth (m bgs)	10.36-11.89	10.36-11.89	Bulk	10.67-12.19	10.67-12.19	Bulk	Bulk	Bulk	Bulk	
Sample Date	17-Sep-15	19-Jun-15	16-Apr-15	17-Sep-15	19-Jun-15	17-Apr-15	17-Sep-15	11-Jun-15	17-Apr-15	
Unit										
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.033</b>	<b>0.037</b>	<b>0.032</b>	<b>0.074</b>	<b>0.084</b>	<b>0.075</b>	<b>0.047</b>	<b>0.056</b>	<b>0.050</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.05
Styrene	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.  
**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.  
 All results in mg/L unless otherwise noted.  
 Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table 4 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	EX7	EX7-1	EX7	Guideline <sup>1</sup>
Depth (m bgs)	11.58-13.11	11.58-13.11	Bulk	
Sample Date	17-Sep-15	19-Jun-15	17-Apr-15	
Unit				
Land Use <sup>2</sup>	R	R	R	
Parameter				
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	0.002	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.158</b>	<b>0.085</b>	<b>0.209</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	0.05
Styrene	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG
Trichloroethylene	0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the sample was collected during the current event.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 5 - Summary of Groundwater Laboratory Analyses  
QA/QC - Trip Blank - VOCs

Sample ID	Trip Blank 1	Trip Blank 2	Trip Blank 3	Trip Blank 4	Trip Blank 5	Trip Blank 6	Trip Blank 7	Trip Blank 8	Trip Blank 9	RDL <sup>1</sup>
Sample Date	03-Sep-15	04-Sep-15	08-Sep-15	15-Sep-15	16-Sep-15	16-Sep-15	17-Sep-15	18-Sep-15	21-Sep-15	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
m,p-Xylenes	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
o-Xylene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Total Xylenes	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Trichlorofluoromethane	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.001
Vinyl Chloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0008

Notes:

1 Reportable detection limits (mg/L).

**Bold** Indicates that the concentration exceeded the reportable detection limits.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 5 - Summary of Groundwater Laboratory Analyses  
QA/QC - Trip Blank - VOCs

Sample ID	Trip Blank 10	Tri pBlank 11	RDL <sup>1</sup>
Sample Date	22-Sep-15	24-Sep-15	
Parameter			
1,1,1,2-Tetrachloroethane	<0.001	<0.001	0.001
1,1,1-Trichloroethane	<0.001	<0.001	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	0.001
1,1,2-Trichloroethane	<0.001	<0.001	0.001
1,1-Dichloroethane	<0.001	<0.001	0.001
1,1-Dichloroethylene	<0.001	<0.001	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	0.0005
1,2-Dichloroethane	<0.001	<0.001	0.001
1,2-Dichloropropane	<0.001	<0.001	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	0.0005
2-Hexanone	<0.01	<0.01	0.01
Acetone	<0.01	<0.01	0.01
Benzene	<0.0005	<0.0005	0.0005
Bromodichloromethane	<0.001	<0.001	0.001
Bromoform	<0.001	<0.001	0.001
Bromomethane	<0.001	<0.001	0.001
Carbon Tetrachloride	<0.0005	<0.0005	0.0005
Chlorobenzene	<0.001	<0.001	0.001
Chloroethane	<0.001	<0.001	0.001
Chloroform	<0.001	<0.001	0.001
Chloromethane	<0.001	<0.001	0.001
cis-1,2 Dichloroethylene	<0.001	<0.001	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	0.001
Dibromochloromethane	<0.001	<0.001	0.001
Ethylbenzene	<0.0005	<0.0005	0.0005
Ethylene Dibromide	<0.001	<0.001	0.001
m,p-Xylenes	<0.0005	<0.0005	0.0005
Methyl Ethyl Ketone	<0.01	<0.01	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	0.001
Methylene Chloride	<0.001	<0.001	0.001
o-Xylene	<0.0005	<0.0005	0.0005
Styrene	<0.001	<0.001	0.001
Tetrachloroethene	<0.001	<0.001	0.001
Toluene	<0.0003	<0.0003	0.0003
Total Xylenes	<0.001	<0.001	0.0005
trans-1,2-Dichloroethylene	<0.001	<0.001	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	0.001
Trichloroethylene	<0.001	<0.001	0.001
Trichlorofluoromethane	<0.0008	<0.0008	0.001
Vinyl Chloride	<0.0005	<0.0005	0.0008

Notes:

<sup>1</sup> Reportable detection limits (mg/L).

**Bold** Indicates that the concentration exceeded the reportable detection limits.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 6 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Equipment Blank - BTEX and PHC fractions F1-F2

Sample ID	Bailer 1	Bailer 2	Hydra 1	Hydra 2	Hydra 3	RDL <sup>1</sup>
Sample Date	22-Sep-15	22-Sep-15	22-Sep-15	22-Sep-15	22-Sep-15	
Parameter						
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Xylenes (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
F1 minus BTEX (C6 - C10)	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
F2 (C10 - C16)	<0.1	<0.1	<0.1	<0.1	<0.1	0.1

**Notes:**

<sup>1</sup> Reportable detection limits (mg/L).

**Bold** Indicates that the concentration exceeded the reportable detection limits.  
 All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 7 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Equipment Blank - PAHs

Sample ID	Bailer 1	Hydra 1	RDL <sup>1</sup>
Sample Date	22-Sep-15	22-Sep-15	
Parameter			
Acenaphthene	<0.00001	<0.00001	0.00001
Acenaphthylene	<0.00001	<0.00001	0.00001
Acridine	<0.00005	<0.00005	0.0001
Anthracene	<0.000010	<0.000010	0.00001
B[a]P TPE	0.0000096	0.0000096	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	0.00001
Benzo[a]pyrene	<0.000007	<0.000007	0.000008
Benzo[b+j]fluoranthene	<0.00001	<0.00001	0.00001
Benzo[ghi]perylene	<0.00001	<0.00001	0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	0.00001
Chrysene	<0.00001	<0.00001	0.00001
Dibenzo[ah]anthracene	<0.000008	<0.000008	0.000008
Fluoranthene	<0.00001	<0.00001	0.00001
Fluorene	<0.00001	<0.00001	0.00001
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	0.00001
Naphthalene	<b>0.00005</b>	<b>0.00004</b>	0.00001
Phenanthrene	<0.00001	<0.00001	0.00001
Pyrene	<0.00001	<0.00001	0.00001
Quinoline	<0.0001	<0.0001	0.0001

Notes:

<sup>1</sup> Reportable detection limits (mg/L).

**Bold** Indicates that the concentration exceeded the reportable detection limits.  
 All results in µg/L unless otherwise noted.

Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 8 - Summary of Groundwater Laboratory Analyses  
QA/QC - Equipment Blank - VOCs

Sample ID	Bailer 1	Bailer 2	Hydra 1	Hydra 2	Hydra 3	RDL <sup>1</sup>
Sample Date	22-Sep-15	22-Sep-15	22-Sep-15	22-Sep-15	22-Sep-15	
Parameter						
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Chloroform	<b>0.004</b>	<b>0.004</b>	<b>0.004</b>	<b>0.004</b>	<b>0.004</b>	0.001
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
m,p-Xylenes	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
o-Xylene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Tetrachloroethene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Toluene	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003
Total Xylenes	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Trichlorofluoromethane	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.001
Vinyl Chloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0008

Notes:

1 Reportable detection limits (mg/L).

**Bold** Indicates that the concentration exceeded the reportable detection limits.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 9 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Field Duplicate - BTEX and PHC fractions F1-F2

Sample ID	BH1905	BH9905	RPD <sup>1</sup>	BH1915-1	BH9915-1	RPD <sup>1</sup>	BH1915-2	BH9915-2	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	08-Sep-15	08-Sep-15	(%)	08-Sep-15	08-Sep-15	(%)	08-Sep-15	08-Sep-15	(%)	
Parameter										
Benzene	0.110	0.112	1.80	0.510	0.523	2.52	0.500	0.503	0.598	0.0005
Toluene	0.0038	0.0037	2.7	0.0319	0.0327	2.48	0.0529	0.0520	1.72	0.0003
Ethylbenzene	0.243	0.231	5.06	0.0087	0.0088	1.1	0.0253	0.0233	8.23	0.0005
Xylenes (Total)	1.56	1.45	7.3	1.02	1.07	4.78	1.59	1.53	3.85	0.0005
F1 minus BTEX (C6 - C10)	1.4	1.5	NC	1.8	1.7	5.7	2.2	2.3	3.8	0.1
F2 (C10 - C16)	2.7	3.1	14	0.6	0.6	0.0	0.8	0.8	0.0	0.1

Notes:

- 1 Relative percent difference.
- 2 Reportable detection limits (mg/L).

**RPD** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

**Table 9 - Summary of Groundwater Laboratory Analyses  
QA/QC - Field Duplicate - BTEX and PHC fractions F1-F2**

Sample ID	BH1967	BH9967	RPD <sup>1</sup>	BH1971	BH9971	RPD <sup>1</sup>	BH1907	BH9907	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	16-Sep-15	16-Sep-15	(%)	16-Sep-15	16-Sep-15	(%)	16-Sep-15	16-Sep-15	(%)	
Parameter										
Benzene	0.225	0.224	0.445	0.0795	0.0794	0.126	0.0742	0.0742	0.000	0.0005
Toluene	0.0191	0.0195	2.07	0.0047	0.0045	4.3	0.248	0.247	0.404	0.0003
Ethylbenzene	0.2700	0.276	2.20	0.463	0.469	1.29	0.0105	0.0099	5.88	0.0005
Xylenes (Total)	0.0080	0.0085	6.06	0.0086	0.0088	2.3	0.157	0.158	0.635	0.0005
F1 minus BTEX (C6 - C10)	2.3	2.2	4.4	1.4	1.4	0.0	0.4	0.4	NC	0.1
F2 (C10 - C16)	0.3	0.3	NC	0.3	0.4	NC	<0.1	<0.1	NC	0.1

**Notes:**

- 1 Relative percent difference.
- 2 Reportable detection limits (mg/L).

**Bold** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD



**Table 9 - Summary of Groundwater Laboratory Analyses  
QA/QC - Field Duplicate - BTEX and PHC fractions F1-F2**

Sample ID	BH1921	BH9921	RPD <sup>1</sup>	BH510A	BH9510A	RPD <sup>1</sup>	EX5	EX95	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	04-Sep-15	04-Sep-15	(%)	04-Sep-15	04-Sep-15	(%)	17-Sep-15	17-Sep-15	(%)	
Parameter										
Benzene	0.174	0.176	1.14	1.70	1.91	11.6	2.57	2.77	7.49	0.0005
Toluene	0.0175	0.0174	0.573	0.259	0.317	20.1	5.62	6.06	7.53	0.0003
Ethylbenzene	0.137	0.142	3.58	0.742	0.878	16.8	1.09	1.24	12.9	0.0005
Xylenes (Total)	0.0092	0.0098	6.32	0.532	0.606	13.0	3.69	4.12	11.0	0.0005
F1 minus BTEX (C6 - C10)	1.0	1.0	0.0	3.2	2.9	9.8	5.4	5.3	1.9	0.1
F2 (C10 - C16)	0.2	0.2	NC	0.3	0.3	NC	0.8	0.8	0.0	0.1

**Notes:**

- 1 Relative percent difference.
- 2 Reportable detection limits (mg/L).

**Bold** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

**Table 9 - Summary of Groundwater Laboratory Analyses  
QA/QC - Field Duplicate - BTEX and PHC fractions F1-F2**

Sample ID	BH1939	BH9939	RPD <sup>1</sup>	BH1982	BH9982	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	21-Sep-15	21-Sep-15	(%)	21-Sep-15	21-Sep-15	(%)	
Parameter							
Benzene	8.00	8.37	4.52	10.7	11.0	2.76	0.0005
Toluene	0.0244	0.0254	4.02	0.281	0.284	1.06	0.0003
Ethylbenzene	0.286	0.277	3.20	0.438	0.419	4.43	0.0005
Xylenes (Total)	0.0547	0.0537	1.85	1.0	1.0	0.0	0.0005
F1 minus BTEX (C6 - C10)	1.2	1.1	8.7	0.3	0.3	NC	0.1
F2 (C10 - C16)	<0.1	<0.1	NC	<0.1	<0.1	NC	0.1

**Notes:**

- 1 Relative percent difference.
- 2 Reportable detection limits (mg/L).

**Bold** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 10 - Summary of Groundwater Laboratory Analyses  
QA/QC - Field Duplicate - PAHs

Sample ID	BH1905	BH9905	RPD <sup>1</sup>	BH1915	BH9915	RPD <sup>1</sup>	BH1915-2	BH9915-2	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	08-Sep-15	08-Sep-15	(%)	08-Sep-15	08-Sep-15	(%)	08-Sep-15	08-Sep-15	(%)	
Parameter										
Acenaphthene	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Acenaphthylene	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Acridine	<0.00005	<0.00005	NC	<0.00005	<0.00005	NC	<0.00005	<0.00005	NC	0.0001
Anthracene	0.00016	0.00015	6.5	<0.000010	<0.000010	NC	<0.000010	<0.000010	NC	0.00001
B[a]P TPE	0.000103	0.0000873	NC	0.0000096	0.0000096	NC	0.0000096	0.0000096	NC	0.00001
Benzo[a]anthracene	0.00020	0.00015	29	<0.000010	<0.000010	NC	<0.000010	<0.000010	NC	0.00001
Benzo[a]pyrene	0.00006	0.00005	18	<0.000007	<0.000007	NC	<0.000007	<0.000007	NC	0.000008
Benzo[b+j]fluoranthene	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Benzo[ghi]perylene	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Benzo[k]fluoranthene	0.00010	0.00008	22	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Chrysene	0.00015	0.00015	0.0	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Dibenzo[ah]anthracene	<0.000008	<0.000008	NC	<0.000008	<0.000008	NC	<0.000008	<0.000008	NC	0.000008
Fluoranthene	0.00040	0.00036	11	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Fluorene	0.00054	0.00055	1.8	0.00007	0.00006	15	0.00008	0.00008	0.0	0.00001
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Naphthalene	0.110	0.105	4.65	0.0245	0.0229	6.8	0.0232	0.0242	4.2	0.00001
Phenanthrene	0.00091	0.00085	6.8	0.00005	0.00004	22	0.00005	0.00005	0.0	0.00001
Pyrene	0.00062	0.00055	12	<0.00001	<0.00001	NC	<0.00001	<0.00001	NC	0.00001
Quinoline	<0.0001	<0.0001	NC	<0.0001	<0.0001	NC	<0.0001	<0.0001	NC	0.0001

Notes:

- 1 Relative percent difference.
- 2 Reportable detection limits (µg/L).

**Bold** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in µg/L unless otherwise noted/

Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 10 - Summary of Groundwater Laboratory Analyses  
QA/QC - Field Duplicate - PAHs

Sample ID	BH1971	BH9971	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	16-Sep-15	16-Sep-15	(%)	
Parameter				
Acenaphthene	<0.00001	<0.00001	NC	0.00001
Acenaphthylene	<0.00001	<0.00001	NC	0.00001
Acridine	<0.00005	<0.00005	NC	0.0001
Anthracene	<0.000010	<0.000010	NC	0.00001
B[a]P TPE	0.0000096	0.0000096	NC	0.00001
Benzo[a]anthracene	<0.000010	<0.000010	NC	0.00001
Benzo[a]pyrene	<0.000007	<0.000007	NC	0.000008
Benzo[b+]]fluoranthene	<0.00001	<0.00001	NC	0.00001
Benzo[ghi]perylene	<0.00001	<0.00001	NC	0.00001
Benzo[k]fluoranthene	<0.00001	<0.00001	NC	0.00001
Chrysene	<0.00001	<0.00001	NC	0.00001
Dibenzo[ah]anthracene	<0.000008	<0.000008	NC	0.000008
Fluoranthene	<0.00001	<0.00001	NC	0.00001
Fluorene	<0.00001	<0.00001	NC	0.00001
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	NC	0.00001
Naphthalene	0.00157	0.00136	14.3	0.00001
Phenanthrene	<0.00001	<0.00001	NC	0.00001
Pyrene	<0.00001	<0.00001	NC	0.00001
Quinoline	<0.0001	<0.0001	NC	0.0001

Notes:

- 1 Relative percent difference.
- 2 Reportable detection limits (µg/L).

**Bold** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in µg/L unless otherwise noted.

Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 11 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Field Duplicate - VOCs

Sample ID	BH1905	BH9905	RPD <sup>1</sup>	BH1915-1	BH9915-1	RPD <sup>1</sup>	BH1915-2	BH9915-2	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	08-Sep-15	08-Sep-15	(%)	08-Sep-15	08-Sep-15	(%)	08-Sep-15	08-Sep-15	(%)	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,1-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,2-Dichloroethane	0.075	0.071	5.5	0.024	0.026	8.0	0.023	0.020	14	0.01
1,2-Dichloropropane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
2-Hexanone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Acetone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Bromodichloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromoform	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromomethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Carbon Tetrachloride	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
Chlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroform	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,2 Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Dibromochloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Ethylene Dibromide	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methyl Ethyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methylene Chloride	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Styrene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Tetrachloroethene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichlorofluoromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Vinyl Chloride	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	0.0008

Notes:

1 Relative percent difference.

2 Reportable detection limits (mg/L).

**RPD** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 11 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Field Duplicate - VOCs

Sample ID	BH1967	BH9967	RPD <sup>1</sup>	BH1971	BH9971	RPD <sup>1</sup>	BH1907	BH9907	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	16-Sep-15	16-Sep-15	(%)	16-Sep-15	16-Sep-15	(%)	16-Sep-15	16-Sep-15	(%)	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,1-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,2-Dichloroethane	0.035	0.034	2.9	0.142	0.133	6.55	<0.001	<0.001	NC	0.001
1,2-Dichloropropane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
2-Hexanone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Acetone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Bromodichloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromoform	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromomethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Carbon Tetrachloride	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
Chlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroform	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,2 Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Dibromochloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Ethylene Dibromide	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methyl Ethyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methylene Chloride	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Styrene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Tetrachloroethene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichlorofluoromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Vinyl Chloride	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	0.0008

Notes:

- 1 Relative percent difference.
- 2 Reportable detection limits (mg/L).
- RPD** RPD exceeds 80% for organic constituents.
- NC Not Calculated
- See laboratory report for detection limits, testing protocols and QA/QC procedures.
- All results in mg/L unless otherwise noted.
- Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfeld Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table 11 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Field Duplicate - VOCs

Sample ID	BH1921	BH9921	RPD <sup>1</sup>	BH510A	BH9510A	RPD <sup>1</sup>	EX5	EX95	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	04-Sep-15	04-Sep-15	(%)	04-Sep-15	04-Sep-15	(%)	17-Sep-15	17-Sep-15	(%)	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,1-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,2-Dichloroethane	0.084	0.088	4.7	0.037	0.036	2.7	0.074	0.076	2.7	0.01
1,2-Dichloropropane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
2-Hexanone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Acetone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Bromodichloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromoform	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromomethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Carbon Tetrachloride	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
Chlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroform	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,2 Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Dibromochloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Ethylene Dibromide	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methyl Ethyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	NC	0.03	0.02	NC	<0.01	<0.01	NC	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methylene Chloride	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Styrene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	0.002	NC	0.001
Tetrachloroethene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichlorofluoromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Vinyl Chloride	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	0.0008

Notes:

1 Relative percent difference.

2 Reportable detection limits (mg/L).

**RPD** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table 11 - Summary of Groundwater Laboratory Analyses  
 QA/QC - Field Duplicate - VOCs

Sample ID	BH1939	BH9939	RPD <sup>1</sup>	BH1982	BH9982	RPD <sup>1</sup>	RDL <sup>2</sup>
Sample Date	21-Sep-15	21-Sep-15	(%)	21-Sep-15	21-Sep-15	(%)	
Parameter							
1,1,1,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,1-Trichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1,2-Trichloroethane	0.002	0.003	NC	0.003	0.003	NC	0.001
1,1-Dichloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,1-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2,4-Trichlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,2-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,2-Dichloropropane	0.167	0.173	3.53	0.177	0.178	0.563	0.01
1,2-Dichloropropane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
1,3-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
2-Hexanone	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Acetone	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Bromodichloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromoform	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Bromomethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Carbon Tetrachloride	<0.0005	<0.0005	NC	<0.0005	<0.0005	NC	0.0005
Chlorobenzene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloroform	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Chloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,2 Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
cis-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Dibromochloromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Ethylene Dibromide	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methyl Ethyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl Isobutyl Ketone	<0.01	<0.01	NC	<0.01	<0.01	NC	0.01
Methyl tert-Butyl Ether	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Methylene Chloride	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Styrene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Tetrachloroethene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
trans-1,3-Dichloropropene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichloroethylene	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Trichlorofluoromethane	<0.001	<0.001	NC	<0.001	<0.001	NC	0.001
Vinyl Chloride	<0.0008	<0.0008	NC	<0.0008	<0.0008	NC	0.0008

Notes:

1 Relative percent difference.

2 Reportable detection limits (mg/L).

**RPD** RPD exceeds 80% for organic constituents.

NC Not Calculated

See laboratory report for detection limits, testing protocols and QA/QC procedures.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT laboratories in Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD



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# Clifton Associates

## Appendices

### Clifton Associates



#### Calgary Office

2222 30th Avenue NE  
Calgary, Alberta T2E 7K9

T (403) 263 2556  
F (403) 234 9033

[calgary@clifton.ca](mailto:calgary@clifton.ca)  
[www.clifton.ca](http://www.clifton.ca)

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Appendix A

# Clifton Associates

## Comparison of HYDRASleeve™ and Bailer Analytical Results

### Clifton Associates



#### Calgary Office

2222 30th Avenue NE  
Calgary, Alberta T2E 7K9

T (403) 263 2556  
F (403) 234 9033

[calgary@clifton.ca](mailto:calgary@clifton.ca)  
[www.clifton.ca](http://www.clifton.ca)



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17 February 2016

**2015 Third Quarter Monitoring and Sampling Report  
Comparison of Bailer and HYDRASleeve™ Analytical Results  
Hounsfield Heights – Briar Hill Community  
Calgary, Alberta**

**File CG2430 E15**

Clifton completed a comparison of depth-discrete, no-purge samples, and composited, purged samples collected from five monitoring wells (BH1907, BH1915, BH1924, BH1928, and BH1956) as part of the 2015 Third Quarter Groundwater Monitoring and Sampling event. Depth-discrete samples were collected using HYDRASleeves™, a no-purge sampling method, prior to purging of the wells. The results from the 1.52 meter (five foot) HYDRASleeve™ intervals were then compared to the bulk sample collected from the same monitoring well with a dedicated, disposable bailer after purging.

The discrete sampling was completed to create a vertical profile of concentrations in each unit on-Site, which could be used to determine the elevation of the dissolved plume, and the location of the centre of mass. The discrete sampling allows you to stratify the water column rather than collect a bulk sample, which is averaged through the water column and potentially diluted. Additionally, when sampling for volatile organic compounds (VOCs), there is less volatilization and less turbidity in the final sample.

The comparison between the discrete and bulk samples was completed to show that the use of HYDRASleeves™ to collect discrete samples provided a higher degree of accuracy and precisions in groundwater monitoring well sampling than the purge and bailer method, and can therefore more accurately describe the movement of contamination through the aquifer, resulting in better prediction of contaminant migration.

### **Methodology**

A HYDRASleeve™ is a long, flexible, polyethylene sample sleeve sealed at the bottom, with a self-sealing polyethylene check valve built into the top. The Sleeve is attached to a spring clip and suspension line to deploy the device into the well. A stainless steel weight is attached to the bottom of the HYDRASleeve™ to carry it to its intended depth in the water column.

The self-sealing check valve allows for the collection of a sample from a user-defined interval without mixing within the water column. Using top-down deployment, the HYDRASleeve™ is placed so that the top of the device is located at the bottom of the sampling zone. Once the water column re-equilibrates following deployment, the sample can be collected by pulling up on the HYDRASleeve™ at a rate of no less than one foot per second, in order to fully open the check valve. Once the sampler is full, the one-way check valve collapses, preventing mixing of non-representative fluid from elsewhere in the water column.

Analytical comparison was completed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), petroleum hydrocarbon (PHC) fractions F1 – F2, polycyclic aromatic hydrocarbons (PAHs), and VOCs. Analytical results for both the no-purge HYDRASleeve™ and the purge and bailer sampling methods were compared to the Alberta Environment and Parks (AEP), May 2014, *Alberta Tier 1 Soil and Groundwater Remediation Guidelines* (AEP 2014 Tier 1 Guidelines) for either residential/parkland or commercial land use of coarse-grained soil, depending on the sample location.

### Limitations

There were a number of limitations unique to the application of HYDRASleeves™. Since the HYDRASleeve™ has to be deployed below the sampling interval, it was not possible to sample the basal sections (bottom five feet) of the screen in any monitoring wells. Additionally, the water column above the well screen was not sampled; the water above the screen is considered stagnant, and the chemistry is altered by interactions with the atmosphere.

An additional discrete sample was collected for both BH1928 and BH1956 in an attempt to identify a zone of higher concentration in the wells which was unavailable during the second quarter sampling event.

### Results

#### *BTEX and PHC fractions F1 – F2*

Five monitoring wells were selected for the comparison of the analytical constituents BTEX and PHC fractions F1 – F2, using the no-purge HYDRASleeve™ and the purge and bailer sampling methods. The laboratory analytical results are presented in Table A1. For four of the five samples (BH1907, BH1924, BH1928, and BH1956), the concentration of the bulk sample was lower than that of the discrete samples for the majority of the constituents sampled. For BH1924 and BH1956, the concentrations in the bulk samples were below the AEP 2014 Tier 1 Guideline value for all except benzene; however, the discrete samples were above guidelines for other compounds. The bulk sample from BH1915 exceeded the concentrations found in the discrete samples for toluene, ethylbenzene, xylenes, and PHC fraction F1 (minus BTEX). In the bulk sample from BH1928, concentrations of toluene and xylenes were greater than some of the discrete samples.

#### *PAHs*

Five monitoring wells were selected for comparison of the analytical constituents within PAHs using the no-purge HYDRASleeve™ and the purge and bailer sampling methods. The laboratory analytical results are presented in Table A2. For BH1907, BH1915, and BH1924, the bulk sample had lower concentrations of naphthalene than the discrete samples; however, all concentrations were still greater than the AEP 2014 Tier 1 Guidelines. Concentrations of all PAH compounds in both BH1928 and BH1956 were below the AEP 2014 Tier 1 Guidelines.

#### *VOCs*

Five monitoring wells were selected for comparison of the analytical constituents within VOCs using the no-purge HYDRASleeve™ and the purge and bailer sampling methods. The laboratory analytical results are presented in Table A3. For BH1928, the bulk sample had a higher concentration of 1,2-dichloroethane (1,2-DCA) than either of the discrete samples that were collected. In all other samples where the concentration of 1,2-DCA was above the AEP 2014 Tier 1 Guidelines in the discrete sample(s), the concentration in the bulk samples was lower and, in the case of BH1956, at the applicable guideline value.

## Discussion

### *BTEX and PHC fractions F1 – F2*

The concentration of most constituents in the bulk samples proved that after purging, there is a significant amount of mixing within the water column, resulting in a diluted concentration for the bulk sample as compared to the individual sample results from the HYDRASleeve™ discrete interval sampling. There was at least one constituent in each discrete sample with concentrations that exceeded those in the bulk sample. For four of the samples (BH1907, BH1915, BH1924, and BH1928), the observed concentration difference between the discrete and bulk samples varied widely (-98% to +98%), depending on the constituent analyzed. In BH1956, both discrete samples had concentrations of benzene that were nearly 200% greater than the bulk sample.

### *PAHs*

The concentration of naphthalene in the discrete sample from three monitoring wells (BH1907, BH1915, and BH1924) was between 4% and 50% higher than that of the bulk sample when the concentration of the discrete sample exceeded the AEP 2014 Tier 1 Guideline. The naphthalene concentrations observed were below guidelines but above the laboratory detection limit for BH1928 and BH1956.

### *VOCs*

Typically, the concentrations of the constituents within the bulk sample proved that, after purging, there is a significant amount of volatilization within the water column. This mixing results in a diluted concentration for the bulk sample, as compared to the individual sample results from the HYDRASleeve™ discrete interval sampling. The sample results indicated that, for three of the five monitoring wells (BH1915, BH1924, and BH1956), the discrete sample had concentrations of one or more constituents that exceeded the concentrations of the bulk sample. All concentrations for BH1907 were below laboratory detection limits, and therefore also below the applicable AEP 2014 Tier 1 Guidelines. Where the concentration in the discrete sample was higher than that of the bulk sample (BH1915, BH1924, and BH1956), the concentration within the discrete sample was between 4% and 194% higher than that of the bulk sample. Both discrete samples for BH1928 had concentrations of 1,2-DCA less than the bulk sample (-9% and -4%, respectively).

## Quality Assurance/Quality Control

A discussion of the trip blanks and equipment blanks is included in the main body of this report.

## Conclusions

The analytical comparison of discrete samples collected using HYDRASleeves™ and bulk samples collected using dedicated, disposable bailers highlighted the discernable differences in concentration between the discrete and bulk samples. This difference reinforces the use of the HYDRASleeve™ no-purge samplers to obtain more accurate chemistry in groundwater monitoring wells to determine areas of exceedance.

**Tables**

Table A1	Summary of Groundwater Laboratory Analyses – BTEX and PHC fractions F1-F2
Table A2	Summary of Groundwater Laboratory Analyses – PAHs
Table A3	Summary of Groundwater Laboratory Analyses – VOCs

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Appendix A

# Clifton Associates Tables

**Clifton Associates**



**Calgary Office**

2222 30th Avenue NE  
Calgary, Alberta T2E 7K9

T (403) 263 2556  
F (403) 234 9033

[calgary@clifton.ca](mailto:calgary@clifton.ca)  
[www.clifton.ca](http://www.clifton.ca)

Table A1 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1907	BH1907-2	BH1915	BH1915-2	BH1924	BH1924-2	BH1928	BH1928-2	BH1928-3	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	Bulk	14.94-16.46	Bulk	14.94-16.46	Bulk	8.63-9.45	Bulk	9.45-10.97	
Sample Date	16-Sep-15	17-Sep-15	08-Sep-15	08-Sep-15	16-Sep-15	17-Sep-15	18-Sep-15	21-Sep-15	24-Sep-15	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
Benzene	<b>0.0742</b>	<b>0.0625</b>	<b>0.510</b>	<b>0.500</b>	<b>3.90</b>	<b>3.18</b>	<b>4.72</b>	<b>2.34</b>	<b>2.57</b>	0.005
Toluene	<b>0.248</b>	<b>0.219</b>	<b>0.0319</b>	<b>0.0529</b>	<b>0.0243</b>	0.0135	0.0032	0.0031	0.0029	0.021
Ethylbenzene	<b>0.0105</b>	<b>0.0036</b>	<b>0.0087</b>	<b>0.0253</b>	0.0005	<0.0005	0.0012	<0.0005	0.0010	0.0024
Xylenes (Total)	0.157	0.159	<b>1.02</b>	<b>1.59</b>	<b>0.373</b>	0.202	0.0783	0.0636	0.0518	0.3
F1 minus BTEX (C6 - C10)	0.4	0.3	<b>1.8</b>	<b>2.2</b>	<0.1	<0.1	0.2	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	0.6	0.8	0.1	<0.1	<0.1	0.1	<0.1	1.1

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD



Table A1 - Summary of Groundwater Laboratory Analyses  
BTEX and PHC fractions F1-F2

Sample ID	BH1956	BH1956-2	BH1956-3	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	Bulk	10.36-11.89	
Sample Date	18-Sep-15	21-Sep-15	24-Sep-15	
Land Use <sup>2</sup>	R	R	R	
Parameter				
Benzene	<b>3.04</b>	<b>0.0084</b>	<b>2.90</b>	0.005
Toluene	<b>0.246</b>	<0.0003	<b>0.256</b>	0.021
Ethylbenzene	<b>0.0542</b>	<0.0005	<b>0.0540</b>	0.0024
Xylenes (Total)	0.203	<0.0005	0.195	0.3
F1 minus BTEX (C6 - C10)	0.1	<0.1	<0.1	0.81
F2 (C10 - C16)	<0.1	<0.1	<0.1	1.1

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table A2 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1907	BH1907-2	BH1915	BH1915-2	BH1924	BH1924-2	BH1928	BH1928-2	BH1928-3	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	Bulk	14.94-16.46	Bulk	14.94-16.46	Bulk	12.50-14.02	Bulk	9.45-10.97	
Sample Date	16-Sep-15	17-Sep-15	08-Sep-15	08-Sep-15	16-Sep-15	17-Sep-15	18-Sep-15	21-Sep-15	24-Sep-15	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
2-Methylnaphthalene	0.00017	0.00018	0.0212	0.0254	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NG
Anthracene	<0.000010	<0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
B[a]P TPE	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.00001
Benzo[a]anthracene	<0.000010	<0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000007	<0.000008	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	0.000015
Benzo[b+j]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	0.00007	0.00008	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG
Naphthalene	<b>0.00250</b>	<b>0.00149</b>	<b>0.0245</b>	<b>0.0232</b>	<b>0.00208</b>	<b>0.00200</b>	0.00003	0.00002	0.00001	0.001
Phenanthrene	<0.00001	<0.00001	0.00005	0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	NG

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No. CG2430  
 Client Sears Canada Inc.  
 Project 2015 Third Quarter Monitoring and Sampling  
 Location Hounsfield Heights - Briar Hill Community, Calgary, Alberta  
 Reviewed By KDD

Table A2 - Summary of Groundwater Laboratory Analyses  
PAHs

Sample ID	BH1956	BH1956-2	BH1956-3	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	Bulk	10.36-11.89	
Sample Date	18-Sep-15	21-Sep-15	24-Sep-15	
Land Use <sup>2</sup>	R	R	R	
Parameter				
2-Methylnaphthalene	0.00001	<0.00001	<0.00001	NG
Acenaphthene	<0.00001	<0.00001	<0.00001	0.0058
Acenaphthylene	<0.00001	<0.00001	<0.00001	NG
Acridine	<0.00005	<0.00005	<0.00005	NG
Anthracene	<0.00001	<0.000010	<0.000010	0.000012
B[a]P TPE	0.0000096	0.0000096	0.0000096	0.00001
Benzo[a]anthracene	<0.00001	<0.000010	<0.000010	0.000018
Benzo[a]pyrene	<0.000007	<0.000007	<0.000007	0.000015
Benzo[b+]]fluoranthene	<0.00001	<0.00001	<0.00001	NG
Benzo[ghi]perylene	<0.00001	<0.00001	<0.00001	NG
Benzo[k]fluoranthene	<0.00001	<0.00001	<0.00001	NG
Chrysene	<0.00001	<0.00001	<0.00001	NG
Dibenzo[ah]anthracene	<0.000008	<0.000008	<0.000008	NG
Fluoranthene	<0.00001	<0.00001	<0.00001	0.00004
Fluorene	<0.00001	<0.00001	<0.00001	0.003
Indeno[1,2,3-cd]pyrene	<0.00001	<0.00001	<0.00001	NG
Naphthalene	0.00003	<0.00001	0.00002	0.001
Phenanthrene	<0.00001	<0.00001	<0.00001	0.0004
Pyrene	<0.00001	<0.00001	<0.00001	0.000025
Quinoline	<0.0001	<0.0001	<0.0001	NG

**Notes:**

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table A3 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1907	BH1907-2	BH1915	BH1915-2	BH1924	BH1924-2	BH1928	BH1928-2	BH1928-3	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	Bulk	14.94-16.46	Bulk	14.94-16.46	Bulk	12.50-14.02	Bulk	9.45-10.97	
Sample Date	16-Sep-15	17-Sep-15	08-Sep-15	08-Sep-15	16-Sep-15	17-Sep-15	18-Sep-15	21-Sep-15	24-Sep-15	
Land Use <sup>2</sup>	R	R	R	R	R	R	R	R	R	
Parameter										
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.002	0.002	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<0.001	<0.001	<b>0.024</b>	<b>0.023</b>	<b>0.189</b>	<b>0.145</b>	<b>0.198</b>	<b>0.217</b>	<b>0.208</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.05
Styrene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0011

Notes:

1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.

2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the concentration did not meet the applicable guideline.

Bulk Bulk Sample collected using a dedicated, disposable bailer.

m bgs Meters below ground surface

NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfield Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

Table A3 - Summary of Groundwater Laboratory Analyses  
VOCs

Sample ID	BH1956	BH1956-2	BH1956-3	Guideline <sup>1</sup>
Depth (m bgs)	11.89-13.41	Bulk	10.36-11.89	
Sample Date	18-Sep-15	21-Sep-15	24-Sep-15	
Land Use <sup>2</sup>	R	R	R	
Parameter				
1,1,1,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	NG
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	NG
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	NG
1,1-Dichloroethane	<0.001	<0.001	<0.001	NG
1,1-Dichloroethylene	<0.001	<0.001	<0.001	0.014
1,2,4-Trichlorobenzene	<0.001	<0.001	<0.001	0.015
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.0007
1,2-Dichloroethane	<b>0.066</b>	0.001	<b>0.057</b>	0.005
1,2-Dichloropropane	<0.001	<0.001	<0.001	NG
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	NG
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	0.001
2-Hexanone	<0.01	<0.01	<0.01	NG
Acetone	<0.01	<0.01	<0.01	NG
Bromodichloromethane	<0.001	<0.001	<0.001	NG
Bromoform	<0.001	<0.001	<0.001	NG
Bromomethane	<0.001	<0.001	<0.001	NG
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005	0.00057
Chlorobenzene	<0.001	<0.001	<0.001	0.0013
Chloroethane	<0.001	<0.001	<0.001	NG
Chloroform	<0.001	<0.001	<0.001	0.0018
Chloromethane	<0.001	<0.001	<0.001	NG
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG
cis-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG
Dibromochloromethane	<0.001	<0.001	<0.001	0.19
Ethylene Dibromide	<0.001	<0.001	<0.001	NG
Methyl Ethyl Ketone	<0.01	<0.01	<0.01	NG
Methyl Isobutyl Ketone	<0.01	<0.01	<0.01	NG
Methyl tert-Butyl Ether	<0.001	<0.001	<0.001	0.015
Methylene Chloride	<0.001	<0.001	0.002	0.05
Styrene	<0.001	<0.001	<0.001	0.072
Tetrachloroethane	<0.001	<0.001	<0.001	0.03
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NG
trans-1,3-Dichloropropene	<0.001	<0.001	<0.001	NG
Trichloroethylene	0.001	<0.001	<0.001	0.005
Trichlorofluoromethane	<0.001	<0.001	<0.001	NG
Vinyl Chloride	<0.0008	<0.0008	<0.0008	0.0011

Notes:

- 1 AEP 2014 Tier 1 Guidelines for residential land use and coarse-grained soil.
- 2 Land Use abbreviations: R=Residential.

**Bold** Indicates that the concentration did not meet the applicable guideline.  
 Bulk Bulk Sample collected using a dedicated, disposable bailer.  
 m bgs Meters below ground surface  
 NG No Specified Guideline Value.

All results in mg/L unless otherwise noted.

Testing was conducted by AGAT Laboratories, Calgary, Alberta.



Job No.	CG2430
Client	Sears Canada Inc.
Project	2015 Third Quarter Monitoring and Sampling
Location	Hounsfeld Heights - Briar Hill Community, Calgary, Alberta
Reviewed By	KDD

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Appendix B

# Clifton Associates

## AGAT Laboratories Certificates of Analysis

### Clifton Associates



#### Calgary Office

2222 30th Avenue NE  
Calgary, Alberta T2E 7K9

T (403) 263 2556  
F (403) 234 9033

[calgary@clifton.ca](mailto:calgary@clifton.ca)  
[www.clifton.ca](http://www.clifton.ca)

**CLIENT NAME: SEARS CANADA INC**  
**290 YONGE STREET, SUITE 700**  
**TORONTO, ON M5B2C3**  
**(416) 941-2346**

**ATTENTION TO: Accounts**

**PROJECT: CG2430 E09**

**AGAT WORK ORDER: 15C015514**

**TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst**

**DATE REPORTED: Sep 10, 2015**

**PAGES (INCLUDING COVER): 10**

**VERSION\*: 1**

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

**All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.**



## Certificate of Analysis

AGAT WORK ORDER: 15C015514

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-03

DATE REPORTED: 2015-09-10

Parameter	Unit	SAMPLE DESCRIPTION:		EX3	EX1	1923	1922	1936	1929	732
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		9/3/2015		6933851	6933869	6933871	6933872	6933873	6933874	6933875
Benzene	mg/L	0.0005	0.0015	7.66	0.0014	0.0056	0.0589	0.770	<0.0005	
Toluene	mg/L	0.0003	<0.0003	2.10	0.0010	<0.0003	0.0011	0.0018	<0.0003	
Ethylbenzene	mg/L	0.0005	<0.0005	0.330	<0.0005	<0.0005	0.0073	<0.0005	<0.0005	
Xylenes	mg/L	0.0005	<0.0005	0.891	0.0129	<0.0005	0.0022	0.0008	<0.0005	
C6 - C10 (F1)	mg/L	0.1	<0.1	11.1	<0.1	<0.1	0.5	0.8	<0.1	
C6 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	0.2	<0.1	<0.1	0.4	<0.1	<0.1	
C10 - C16 (F2)	mg/L	0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	
Surrogate	Unit	Acceptable Limits								
Toluene-d8 (BTEX)	%	50-150	97	94	100	94	88	86	93	
o-Terphenyl (F2)	%	50-150	103	102	100	104	101	102	100	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

**6933851-6933875** The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
 C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*



# Certificate of Analysis

AGAT WORK ORDER: 15C015514

PROJECT: CG2430 E09

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

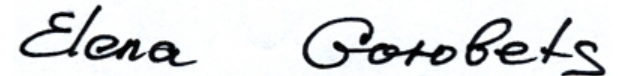
## Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-03

DATE REPORTED: 2015-09-10

Parameter	Unit	SAMPLE DESCRIPTION:		EX3	EX1	1923	1922	1936	1929	732	Trip Blank
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015
		G / S	RDL	6933851	6933869	6933871	6933872	6933873	6933874	6933875	6933876
Chloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L		0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Chloroform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L		0.001	<0.001	0.086	<0.001	0.003	0.091	0.083	<0.001	<0.001
1,1,1-Trichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L		0.0005	0.0015	7.66	0.0014	0.0056	0.0589	0.770	<0.0005	<0.0005
1,2-Dichloropropane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L		0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001
Toluene	mg/L		0.0003	<0.0003	2.10	0.0010	<0.0003	0.0011	0.0018	<0.0003	<0.0003
2-Hexanone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C015514

PROJECT: CG2430 E09

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-03

DATE REPORTED: 2015-09-10

Parameter	Unit	SAMPLE DESCRIPTION:		EX3	EX1	1923	1922	1936	1929	732	Trip Blank
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015	9/3/2015
		G / S	RDL	6933851	6933869	6933871	6933872	6933873	6933874	6933875	6933876
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L		0.0005	<0.0005	0.330	<0.0005	<0.0005	0.0073	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L		0.0005	<0.0005	0.476	0.0009	<0.0005	0.0022	0.0008	<0.0005	<0.0005
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L		0.0005	<0.0005	0.415	0.0120	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L		0.0005	<0.0005	0.891	0.0129	<0.0005	0.0022	0.0008	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-150		98	95	100	98	99	95	99	101

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6933851-6933876 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*

## Quality Assurance

**CLIENT NAME: SEARS CANADA INC**
**AGAT WORK ORDER: 15C015514**
**PROJECT: CG2430 E09**
**ATTENTION TO: Accounts**
**SAMPLING SITE:**
**SAMPLED BY:**

Trace Organics Analysis															
RPT Date: Sep 10, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatile Organic Compounds in Water**

Chloromethane	2305	6916503	0.026	0.028	7.0%	< 0.001	86%	60%	140%	92%	60%	140%	85%	60%	140%
Vinyl Chloride	2305	6916503	0.017	0.019	11.0%	< 0.0008	77%	60%	140%	97%	60%	140%	92%	60%	140%
Bromomethane	2305	6916503	0.002	0.003	NA	< 0.001	119%	60%	140%	83%	60%	140%	75%	60%	140%
Chloroethane	2305	6916503	0.016	0.012	29.0%	< 0.001	104%	60%	140%	94%	60%	140%	88%	60%	140%
Trichlorofluoromethane	2305	6916503	<0.001	<0.001	NA	< 0.001	88%	60%	140%	80%	60%	140%	74%	60%	140%
Acetone	2305	6916503	1.02	1.05	3.0%	< 0.01	104%	60%	140%	128%	60%	140%	100%	60%	140%
1,1-Dichloroethylene	2305	6916503	0.174	0.176	1.0%	< 0.001	75%	60%	140%	90%	60%	140%	86%	60%	140%
Methylene Chloride	2305	6916503	0.193	0.198	3.0%	< 0.001	100%	60%	140%	90%	60%	140%	84%	60%	140%
Methyl tert-Butyl Ether	2305	6916503	0.001	0.002	NA	< 0.001	72%	60%	140%	75%	60%	140%	72%	60%	140%
Methyl Ethyl Ketone	2305	6916503	1.09	1.09	0.0%	< 0.01	69%	60%	140%	61%	60%	140%	60%	60%	140%
trans-1,2-Dichloroethylene	2305	6916503	0.174	0.176	1.0%	< 0.001	75%	60%	140%	90%	60%	140%	86%	60%	140%
1,1-Dichloroethane	2305	6916503	0.001	0.001	NA	< 0.001	75%	60%	140%	91%	60%	140%	86%	60%	140%
cis-1,2 Dichloroethylene	2305	6916503	10.8	10.8	0.0%	< 0.001	74%	60%	140%	87%	60%	140%	83%	60%	140%
Chloroform	2305	6916503	0.012	0.012	0.0%	< 0.001	74%	60%	140%	89%	60%	140%	84%	60%	140%
1,2-Dichloroethane	2305	6916503	0.003	0.003	NA	< 0.001	76%	60%	140%	91%	60%	140%	87%	60%	140%
1,1,1-Trichloroethane	2305	6916503	<0.001	<0.001	NA	< 0.001	100%	60%	140%	93%	60%	140%	85%	60%	140%
Carbon Tetrachloride	2305	6916503	<0.0005	<0.0005	NA	< 0.0005	101%	60%	140%	94%	60%	140%	86%	60%	140%
Benzene	2305	6916503	<0.0005	<0.0005	NA	< 0.0005	112%	60%	140%	101%	60%	140%	93%	60%	140%
1,2-Dichloropropane	2305	6916503	0.015	0.017	13.0%	< 0.001	88%	60%	140%	98%	60%	140%	95%	60%	140%
Trichloroethylene	2305	6916503	3.45	3.66	6.0%	< 0.001	114%	60%	140%	104%	60%	140%	95%	60%	140%
Bromodichloromethane	2305	6916503	0.051	0.058	13.0%	< 0.001	79%	60%	140%	96%	60%	140%	91%	60%	140%
trans-1,3-Dichloropropene	2305	6916503	<0.001	<0.001	NA	< 0.001	71%	60%	140%	91%	60%	140%	86%	60%	140%
Methyl Isobutyl Ketone	2305	6916503	<0.01	<0.01	NA	< 0.01	76%	60%	140%	79%	60%	140%	73%	60%	140%
cis-1,3-Dichloropropene	2305	6916503	<0.001	<0.001	NA	< 0.001	73%	60%	140%	95%	60%	140%	88%	60%	140%
1,1,2-Trichloroethane	2305	6916503	<0.001	<0.001	NA	< 0.001	108%	60%	140%	99%	60%	140%	90%	60%	140%
Toluene	2305	6916503	0.0100	0.0093	7.3%	< 0.0003	97%	60%	140%	88%	60%	140%	81%	60%	140%
2-Hexanone	2305	6916503	0.01	<0.01	NA	< 0.01	61%	60%	140%	64%	60%	140%	60%	60%	140%
Dibromochloromethane	2305	6916503	<0.001	<0.001	NA	< 0.001	75%	60%	140%	91%	60%	140%	87%	60%	140%
Ethylene Dibromide	2305	6916503	<0.001	<0.001	NA	< 0.001	67%	60%	140%	82%	60%	140%	77%	60%	140%
Tetrachloroethene	2305	6916503	25.4	26.1	3.0%	< 0.001	115%	60%	140%	104%	60%	140%	95%	60%	140%
1,1,1,2-Tetrachloroethane	2305	6916503	<0.001	<0.001	NA	< 0.001	89%	60%	140%	90%	60%	140%	94%	60%	140%
Chlorobenzene	2305	6916503	<0.001	<0.001	NA	< 0.001	101%	60%	140%	90%	60%	140%	84%	60%	140%
Ethylbenzene	2305	6916503	0.0006	0.0006	0.0%	< 0.0005	89%	60%	140%	86%	60%	140%	78%	60%	140%
m,p-Xylenes	2305	6916503	0.0009	0.001	11.0%	< 0.0005	94%	60%	140%	91%	60%	140%	82%	60%	140%
Bromoform	2305	6916503	<0.001	<0.001	NA	< 0.001	100%	60%	140%	100%	60%	140%	91%	60%	140%
Styrene	2305	6916503	<0.001	<0.001	NA	< 0.001	92%	60%	140%	86%	60%	140%	82%	60%	140%
1,1,2,2-Tetrachloroethane	2305	6916503	<0.001	<0.001	NA	< 0.001	95%	60%	140%	120%	60%	140%	113%	60%	140%
o-Xylene	2305	6916503	<0.0005	<0.0005	NA	< 0.0005	97%	60%	140%	99%	60%	140%	88%	60%	140%
1,3-Dichlorobenzene	2305	6916503	<0.0005	<0.0005	NA	< 0.0005	105%	60%	140%	81%	60%	140%	76%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E09  
 SAMPLING SITE:

AGAT WORK ORDER: 15C015514  
 ATTENTION TO: Accounts  
 SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 10, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	2305	6916503	<0.0005	<0.0005	NA	< 0.0005	95%	60%	140%	77%	60%	140%	71%	60%	140%	
1,2-Dichlorobenzene	2305	6916503	<0.0005	<0.0005	NA	< 0.0005	87%	60%	140%	81%	60%	140%	74%	60%	140%	
1,2,4-Trichlorobenzene	2305	6916503	<0.001	<0.001	NA	< 0.001	91%	60%	140%	82%	60%	140%	79%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	2144	6933871	0.0014	0.0014	NA	< 0.0005	93%	80%	120%	93%	80%	120%	93%	70%	130%
Toluene	2144	6933871	0.0010	0.0010	NA	< 0.0003	88%	80%	120%	86%	80%	120%	84%	70%	130%
Ethylbenzene	2144	6933871	<0.0005	<0.0005	NA	< 0.0005	81%	80%	120%	81%	80%	120%	72%	70%	130%
Xylenes	2144	6933871	0.0129	0.0125	3.1%	< 0.0005	87%	80%	120%	89%	80%	120%	83%	70%	130%
C6 - C10 (F1)	2144	6933871	<0.1	<0.1	NA	< 0.1	87%	80%	120%	92%	80%	120%	89%	70%	130%
C10 - C16 (F2)	362	6928156	<0.1	<0.1	NA	< 0.1	98%	80%	120%	106%	80%	120%	117%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By: *Elena Gorobets*

## Method Summary

**CLIENT NAME: SEARS CANADA INC**
**AGAT WORK ORDER: 15C015514**
**PROJECT: CG2430 E09**
**ATTENTION TO: Accounts**
**SAMPLING SITE:**
**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Trace Organics Analysis</b>			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C015514

PROJECT: CG2430 E09

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webearth.agatlabs.com

## Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates Ltd.  
 Contact: Daniel Budai  
 Address: 2222 - 30th Ave. NE  
Calgary, AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 234-9033  
 LSD: \_\_\_\_\_  
 Client Project #: G2430 E09

### Report Information

1. Name: Daniel Budai  
 Email: daniel\_budai@clifton.ca  
 2. Name: Mark Lebar  
 Email: mark\_lebar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen\_dabadie@clifton.ca

### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  D50 (Drilling)  SPIGEC

### Invoice To

Same Yes  No   
 Company: Sears Canada Inc.  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto ON M5B 2C3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/A/E#: G2430 E09

### Laboratory Use Only

Arrival Temperature: 4°C  
 AGAT Job Number: 15015514  
 Date and Time: 15 SEP 3 17:27

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

RUSH TAT REQUESTS  
 UPON SELECTING A  
 RUSH TAT, THE CLIENT  
 ACCEPTS THAT A  
 RUSH SURCHARGE  
 WILL BE ADDED  
 TO THE INVOICE.  
 SEE BACK FOR  
 SURCHARGE.

Date Required: \_\_\_\_\_

### Report Format

Single Sample per Page  
 Multiple Samples per Page

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/FL-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEXS/VP/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	Hold for 60 Days	Preserved (Y/N)	Contaminated/Hazardous (Y/N)
<u>6939851</u>	<u>EX3</u>	<u>GW</u>	<u>Sept. 3, 2015 / 13:30</u>		<u>4</u>													
<u>819</u>	<u>EX1</u>		<u>Sept. 3 / 12:51</u>		<u>4</u>													
<u>871</u>	<u>1923</u>		<u>Sept. 3 / 15:00</u>		<u>4</u>													
<u>812</u>	<u>1922</u>		<u>Sept. 3 / 14:45</u>		<u>4</u>													
<u>873</u>	<u>1936</u>		<u>Sept. 3 / 14:15</u>		<u>4</u>													
<u>874</u>	<u>1929</u>		<u>Sept. 3 / 14:30</u>		<u>4</u>													
<u>875</u>	<u>732</u>		<u>Sept. 3 / 14:00</u>		<u>4</u>													
<u>876</u>	<u>Trip Blank 1</u>	<u>water</u>	<u>Sept. 3, 2015</u>		<u>2</u>													

Samples Relinquished By: (Print Name and Sign): <u>Keyey Decker</u>	Date/Time: <u>Sept. 3 17:27</u>	Samples Received By: (Print Name and Sign): <u>Lubina Droug</u>	Date/Time: <u>03 - Sept - 2015</u>
Samples Relinquished By: (Print Name and Sign): <u>Keyey Decker</u>	Date/Time: <u>Sept. 3 17:27</u>	Samples Received By: (Print Name and Sign): <u>Lubina Droug</u>	Date/Time: <u>03 - Sept - 2015</u>
Samples Relinquished By: (Print Name and Sign): <u>Keyey Decker</u>	Date/Time: <u>Sept. 3 17:27</u>	Samples Received By: (Print Name and Sign): <u>Lubina Droug</u>	Date/Time: <u>03 - Sept - 2015</u>
Pink Copy - Client		Page <u>1</u> of <u>1</u>	
Yellow Copy - AGAT		No: AB	
White Copy - AGAT		041737	



# Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

### RECEIVING BASICS - Shipping

Company/Consultant: Sears / Clifton Prepaid Collect  
 Courier: D/O Waybill# \_\_\_\_\_  
 Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_  
 Custody Seal Intact: Yes  No  NA  
 TAT: <24hr 24-48hr 48-72hr  Reg Other \_\_\_\_\_  
 Cooler Quantity: \_\_\_\_\_

### TIME SENSITIVE ISSUES - Shipping

ALREADY EXCEEDED HOLD TIME? Yes  No   
 Inorganic Tests (Please Circle): Mibi, BOD, Nitrate/Nitrite, Turbidity, Microtox, Ortho PO4, Tedlar Bag, Residual Chlorine, Chlorophyll\*, Chloroamines\*  
 Earliest Expiry: \_\_\_\_\_  
 Hydrocarbons: Earliest Expiry 17-Sept-2015

### SAMPLE INTEGRITY - Shipping

Hazardous Samples: YES  NO  Precaution Taken: \_\_\_\_\_  
 Legal Samples: Yes  No   
 International Samples: Yes  No   
 Tape Sealed: Yes  No   
 Coolant Used: Icepack  Bagged Ice  Free Ice  Free Water  None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

### FROZEN (Please Circle if samples received Frozen)

1 (Bottle/Jar) 4 + 4 = 8 °C 2 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C  
 3 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C 4 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C  
 5 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C 6 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C  
 7 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C 8 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C  
 9 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C 10 (Bottle/Jar) \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

### LOGISTICS USE ONLY

Workorder No: 15C 015514  
 Samples Damaged: Yes  No  If YES why?  
 No Bubble Wrap Frozen Courier  
 Other: \_\_\_\_\_  
 Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes  No   
 Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 CPM Initial \_\_\_\_\_  
 General Comments: \_\_\_\_\_

\* Subcontracted Analysis (See CPM)



CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts Payable

PROJECT: CG2430 E09

AGAT WORK ORDER: 15C015985

TRACE ORGANICS REVIEWED BY: Larissa Poryadina, Senior Analyst

DATE REPORTED: Sep 14, 2015

PAGES (INCLUDING COVER): 18

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

# Certificate of Analysis

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-09

Parameter	Unit	SAMPLE DESCRIPTION:		510A	9510A	912	1917	1918	1919	1921	9921
		G / S	RDL	6942225	6942226	6942227	6942228	6942229	6942230	6942231	6942232
Benzene	mg/L		0.0005	1.70	1.91	<0.0005	<0.0005	<0.0005	<0.0005	0.174	0.176
Toluene	mg/L		0.0003	0.259	0.317	<0.0003	<0.0003	<0.0003	<0.0003	0.0175	0.0174
Ethylbenzene	mg/L		0.0005	0.742	0.878	<0.0005	<0.0005	<0.0005	<0.0005	0.137	0.142
Xylenes	mg/L		0.0005	0.532	0.606	<0.0005	<0.0005	<0.0005	<0.0005	0.0092	0.0098
C6 - C10 (F1)	mg/L		0.1	6.4	6.6	<0.1	<0.1	<0.1	<0.1	1.4	1.3
C6 - C10 (F1 minus BTEX)	mg/L		0.1	3.2	2.9	<0.1	<0.1	<0.1	<0.1	1.0	1.0
C10 - C16 (F2)	mg/L		0.1	0.3	0.3	<0.1	<0.1	<0.1	<0.1	0.2	0.2
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	93	96	94	97	101	96	103	93
o-Terphenyl (F2)	%		50-150	102	102	102	102	102	101	101	101
		SAMPLE DESCRIPTION:		1925	1927	1941	1942	1943	1948	1952	1953
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015
Parameter	Unit	G / S	RDL	6942233	6942234	6942235	6942236	6942237	6942238	6942239	6942240
Benzene	mg/L		0.0005	2.54	0.0009	<0.0005	<0.0005	1.58	<0.0005	<0.0005	<0.0005
Toluene	mg/L		0.0003	0.137	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	mg/L		0.0005	0.515	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes	mg/L		0.0005	0.072	0.0172	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
C6 - C10 (F1)	mg/L		0.1	5.5	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	<0.1
C6 - C10 (F1 minus BTEX)	mg/L		0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C10 - C16 (F2)	mg/L		0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	93	99	94	99	92	99	92	98
o-Terphenyl (F2)	%		50-150	99	101	101	102	103	103	103	102

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# Certificate of Analysis

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-09

Parameter	Unit	SAMPLE DESCRIPTION:		1961	1963
		G / S	RDL	6942241	6942242
Benzene	mg/L		0.0005	<0.0005	<0.0005
Toluene	mg/L		0.0003	<0.0003	<0.0003
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005
Xylenes	mg/L		0.0005	<0.0005	<0.0005
C6 - C10 (F1)	mg/L		0.1	<0.1	<0.1
C6 - C10 (F1 minus BTEX)	mg/L		0.1	<0.1	<0.1
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits			
Toluene-d8 (BTEX)	%	50-150		98	99
o-Terphenyl (F2)	%	50-150		102	95

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6942225-6942242 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
 C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-08

		SAMPLE DESCRIPTION: 1952	
		SAMPLE TYPE: Water	
		DATE SAMPLED: 9/4/2015	
Parameter	Unit	G / S	RDL
			6942239
Acridine	mg/L	0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	<0.00001
Naphthalene	mg/L	0.00001	<0.00001
Acenaphthylene	mg/L	0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001
Fluorene	mg/L	0.00001	<0.00001
Phenanthrene	mg/L	0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits	
2-Fluorobiphenyl (PAH)	%	50-150	109
p-Terphenyl-d14 (PAH)	%	50-150	132

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6942239

Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

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SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		510A	9510A	912	1917	1918	1919	1921	9921
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015
		G / S	RDL	6942225	6942226	6942227	6942228	6942229	6942230	6942231	6942232
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	0.037	0.036	<0.001	<0.001	<0.001	<0.001	<0.001	0.084	0.088
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	2.19	2.03	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.182	0.190
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	0.259	0.317	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0199	0.0207
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

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## Certificate of Analysis

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		510A	9510A	912	1917	1918	1919	1921	9921
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	0.742	0.878	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.143	0.156
m,p-Xylenes	mg/L	0.0005	0.450	0.524	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0064	0.0089
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	0.082	0.082	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0023	0.0021
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	0.532	0.606	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0087	0.011
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-150		104	102	97	98	98	97	100	99

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### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1925	1927	1941	1942	1943	1948	1952	1953
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015
		G / S	RDL	6942233	6942234	6942235	6942236	6942237	6942238	6942239	6942240
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	0.055	<0.001	<0.001	<0.001	<0.001	0.016	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	2.71	0.0012	<0.0005	<0.0005	<0.0005	1.66	<0.0005	<0.0005	<0.0005
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	0.161	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:



## Certificate of Analysis

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1925	1927	1941	1942	1943	1948	1952	1953
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015	9/4/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	0.515	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L	0.0005	0.051	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	0.021	0.0222	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	0.072	0.0222	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-150		101	99	98	98	100	101	98	100

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1961	1963	Trip Blank 2
		G / S	RDL	6942241	6942242	6942243
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-04

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	1961	1963	Trip Blank 2
				Water	Water	Water
				9/4/2015	9/4/2015	9/4/2015
				6942241	6942242	6942243
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-150	98	99	98	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6942225-6942243 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.

Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E09  
 SAMPLING SITE:

AGAT WORK ORDER: 15C015985  
 ATTENTION TO: Accounts Payable  
 SAMPLED BY:

Trace Organics Analysis															
RPT Date:			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Petroleum Hydrocarbons (BTEX/F1-F2) in Water**

Benzene	2149	6942227	<0.0005	<0.0005	NA	< 0.0005	94%	80%	120%	97%	80%	120%	87%	70%	130%
Toluene	2149	6942227	<0.0003	<0.0003	NA	< 0.0003	88%	80%	120%	92%	80%	120%	103%	70%	130%
Ethylbenzene	2149	6942227	<0.0005	<0.0005	NA	< 0.0005	81%	80%	120%	81%	80%	120%	104%	70%	130%
Xylenes	2149	6942227	<0.0005	<0.0005	NA	< 0.0005	85%	80%	120%	87%	80%	120%	111%	70%	130%
C6 - C10 (F1)	2149	6942227	<0.1	<0.1	NA	< 0.1	94%	80%	120%	99%	80%	120%	85%	70%	130%
C10 - C16 (F2)	367	6941582	5.0	5.0	0.0%	< 0.1	100%	80%	120%	95%	80%	120%	124%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Volatile Organic Compounds in Water**

Chloromethane	3073	6942241	< 0.001	< 0.001	NA	< 0.001	93%	60%	140%	97%	60%	140%	109%	60%	140%
Vinyl Chloride	3073	6942241	<0.0008	<0.0008	NA	< 0.0008	66%	60%	140%	67%	60%	140%	63%	60%	140%
Chloroethane	3073	6942241	<0.001	<0.001	NA	< 0.001	77%	60%	140%	79%	60%	140%	74%	60%	140%
Trichlorofluoromethane	3073	6942241	<0.001	<0.001	NA	< 0.001	77%	60%	140%	79%	60%	140%	76%	60%	140%
Acetone	3073	6942241	<0.01	<0.01	NA	< 0.01	112%	60%	140%	86%	60%	140%	108%	60%	140%
1,1-Dichloroethylene	3073	6942241	<0.001	<0.001	NA	< 0.001	80%	60%	140%	84%	60%	140%	79%	60%	140%
Methylene Chloride	3073	6942241	<0.001	<0.001	NA	< 0.001	92%	60%	140%	90%	60%	140%	83%	60%	140%
Methyl tert-Butyl Ether	3073	6942241	<0.001	<0.001	NA	< 0.001	97%	60%	140%	92%	60%	140%	77%	60%	140%
Methyl Ethyl Ketone	3073	6942241	<0.01	<0.01	NA	< 0.01	93%	60%	140%	67%	60%	140%	60%	60%	140%
trans-1,2-Dichloroethylene	3073	6942241	<0.001	<0.001	NA	< 0.001	85%	60%	140%	87%	60%	140%	83%	60%	140%
1,1-Dichloroethane	3073	6942241	<0.001	<0.001	NA	< 0.001	89%	60%	140%	89%	60%	140%	84%	60%	140%
cis-1,2 Dichloroethylene	3073	6942241	<0.001	<0.001	NA	< 0.001	89%	60%	140%	90%	60%	140%	86%	60%	140%
Chloroform	3073	6942241	<0.001	<0.001	NA	< 0.001	89%	60%	140%	87%	60%	140%	84%	60%	140%
1,2-Dichloroethane	3073	6942241	<0.001	<0.001	NA	< 0.001	97%	60%	140%	96%	60%	140%	96%	60%	140%
1,1,1-Trichloroethane	3073	6942241	<0.001	<0.001	NA	< 0.001	80%	60%	140%	82%	60%	140%	79%	60%	140%
Carbon Tetrachloride	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	79%	60%	140%	82%	60%	140%	78%	60%	140%
Benzene	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	95%	60%	140%	93%	60%	140%	89%	60%	140%
1,2-Dichloropropane	3073	6942241	<0.001	<0.001	NA	< 0.001	101%	60%	140%	99%	60%	140%	93%	60%	140%
Trichloroethylene	3073	6942241	<0.001	<0.001	NA	< 0.001	97%	60%	140%	97%	60%	140%	102%	60%	140%
Bromodichloromethane	3073	6942241	<0.001	<0.001	NA	< 0.001	98%	60%	140%	96%	60%	140%	92%	60%	140%
trans-1,3-Dichloropropene	3073	6942241	<0.001	<0.001	NA	< 0.001	80%	60%	140%	76%	60%	140%	79%	60%	140%
Methyl Isobutyl Ketone	3073	6942241	<0.01	<0.01	NA	< 0.01	65%	60%	140%	72%	60%	140%	63%	60%	140%
cis-1,3-Dichloropropene	3073	6942241	<0.001	<0.001	NA	< 0.001	67%	60%	140%	65%	60%	140%	73%	60%	140%
1,1,2-Trichloroethane	3073	6942241	<0.001	<0.001	NA	< 0.001	98%	60%	140%	96%	60%	140%	90%	60%	140%
Toluene	3073	6942241	<0.0003	<0.0003	NA	< 0.0003	91%	60%	140%	90%	60%	140%	86%	60%	140%
2-Hexanone	3073	6942241	<0.01	<0.01	NA	< 0.01	64%	60%	140%	75%	60%	140%	70%	60%	140%
Dibromochloromethane	3073	6942241	<0.001	<0.001	NA	< 0.001	100%	60%	140%	99%	60%	140%	96%	60%	140%
Ethylene Dibromide	3073	6942241	<0.001	<0.001	NA	< 0.001	89%	60%	140%	91%	60%	140%	89%	60%	140%
Tetrachloroethene	3073	6942241	<0.001	<0.001	NA	< 0.001	96%	60%	140%	97%	60%	140%	94%	60%	140%
1,1,1,2-Tetrachloroethane	3073	6942241	<0.001	<0.001	NA	< 0.001	88%	60%	140%	90%	60%	140%	86%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Chlorobenzene	3073	6942241	<0.001	<0.001	NA	< 0.001	90%	60%	140%	91%	60%	140%	89%	60%	140%	
Ethylbenzene	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	86%	60%	140%	87%	60%	140%	85%	60%	140%	
m,p-Xylenes	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	84%	60%	140%	86%	60%	140%	86%	60%	140%	
Bromoform	3073	6942241	<0.001	<0.001	NA	< 0.001	95%	60%	140%	97%	60%	140%	92%	60%	140%	
Styrene	3073	6942241	<0.001	<0.001	NA	< 0.001	85%	60%	140%	91%	60%	140%	98%	60%	140%	
o-Xylene	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	90%	60%	140%	90%	60%	140%	89%	60%	140%	
1,3-Dichlorobenzene	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	64%	60%	140%	79%	60%	140%	81%	60%	140%	
1,4-Dichlorobenzene	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	65%	60%	140%	78%	60%	140%	85%	60%	140%	
1,2-Dichlorobenzene	3073	6942241	<0.0005	<0.0005	NA	< 0.0005	75%	60%	140%	92%	60%	140%	92%	60%	140%	
1,2,4-Trichlorobenzene	3073	6942241	<0.001	<0.001	NA	< 0.001	72%	60%	140%	80%	60%	140%	92%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Petroleum Hydrocarbons (BTEX/F1-F2) in Water**

C10 - C16 (F2)	368	6940758	<0.1	<0.1	NA	< 0.1	100%	80%	120%	97%	80%	120%	123%	70%	130%
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Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Polyaromatic Hydrocarbon Analysis - Water FWAL**

Acridine	632	6940760	< 0.00005	< 0.00005	NA	< 0.00005	92%	70%	130%	116%	70%	130%	113%	70%	130%
Quinoline	632	6940760	< 0.0001	< 0.0001	NA	< 0.0001	98%	70%	130%	117%	70%	130%	118%	70%	130%
2-Methylnaphthalene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	128%	70%	130%	109%	70%	130%	109%	70%	130%
Naphthalene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	122%	70%	130%	107%	70%	130%	109%	70%	130%
Acenaphthylene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	107%	70%	130%	101%	70%	130%	104%	70%	130%
Acenaphthene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	118%	70%	130%	112%	70%	130%	109%	70%	130%
Fluorene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	105%	70%	130%	98%	70%	130%	99%	70%	130%
Phenanthrene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	117%	70%	130%	107%	70%	130%	110%	70%	130%
Anthracene	632	6940760	< 0.000010	< 0.000010	NA	< 0.000010	109%	70%	130%	110%	70%	130%	108%	70%	130%
Fluoranthene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	111%	70%	130%	107%	70%	130%	107%	70%	130%
Pyrene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	118%	70%	130%	122%	70%	130%	130%	70%	130%
Benzo[a]anthracene	632	6940760	< 0.000010	< 0.000010	NA	< 0.000010	116%	70%	130%	91%	70%	130%	91%	70%	130%
Chrysene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	110%	70%	130%	107%	70%	130%	106%	70%	130%
Benzo[b+j]fluoranthene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	85%	70%	130%	117%	70%	130%	94%	70%	130%
Benzo[k]fluoranthene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	110%	70%	130%	87%	70%	130%	85%	70%	130%
Benzo[a]pyrene	632	6940760	< 0.000007	< 0.000007	NA	< 0.000007	94%	70%	130%	103%	70%	130%	89%	70%	130%
Indeno[1,2,3-cd]pyrene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	118%	70%	130%	92%	70%	130%	77%	70%	130%
Benzo[ghi]perylene	632	6940760	< 0.00001	< 0.00001	NA	< 0.00001	100%	70%	130%	77%	70%	130%	76%	70%	130%
Dibenzo[ah]anthracene	632	6940760	< 0.000008	< 0.000008	NA	< 0.000008	117%	70%	130%	91%	70%	130%	83%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

## Quality Assurance

 CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E09  
 SAMPLING SITE:

 AGAT WORK ORDER: 15C015985  
 ATTENTION TO: Accounts Payable  
 SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By:



## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C015985

PROJECT: CG2430 E09

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
Calgary, Alberta T2E 7P7

P: 403.735.2005 • F: 403.735.2771

webearth.agatlabs.com

## Laboratory Use Only

Arrival Temperature: 6°C

AGAT Job Number: 15C015985

Date and Time:

15 SEP-4 18:56

## Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates Ltd.  
Contact: Daniel Budai  
Address: 2222 - 30<sup>th</sup> Ave NE  
Calgary, AB T2E 7K9  
Phone: (403) 263-2556 Fax: (403) 234-9033  
LSD: \_\_\_\_\_  
Client Project #: CG2430E09

### Report Information

1. Name: Daniel Budai  
Email: daniel-budai@clifton.ca  
2. Name: Mark Lehrer  
Email: mark-lehrer@clifton.ca  
3. Name: Stephen d'Abadie  
Email: stephen\_dabadie@clifton.ca

### Report Format

Single Sample per Page  
 Multiple Samples per Page

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

Date Required: \_\_\_\_\_

### Invoice To

Same Yes  No

Company: Sears Canada Inc.  
Contact: \_\_\_\_\_  
Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2G3  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
PO/AFE#: CG2430E09

### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  D50 (Drilling)  SPIGEC

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/PHG/FI	PHG/F2	VOCs	PAHs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) "potentially"
<u>6942225</u>	<u>510A</u>	<u>GW</u>	<u>Sept. 4, 2015/13:15</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>226</u>	<u>9510A</u>		<u>Sept. 4, 2015/13:15</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>227</u>	<u>912</u>		<u>Sept. 4, 2015/15:05</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>228</u>	<u>1917</u>		<u>Sept. 4, 2015/14:45</u>		<u>4</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>229</u>	<u>1918</u>		<u>Sept. 4, 2015/9:30</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>230</u>	<u>1919</u>		<u>Sept. 4, 2015/14:35</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>231</u>	<u>1921</u>		<u>Sept. 4, 2015/9:10</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>232</u>	<u>9921</u>		<u>Sept. 4, 2015/9:10</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>233</u>	<u>1925</u>		<u>Sept. 4, 2015/9:40</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>234</u>	<u>1927</u>		<u>Sept. 4, 2015/15:30</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>
<u>235</u>	<u>1941</u>		<u>Sept. 4, 2015/14:05</u>		<u>5</u>											<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>	<u>&lt;</u>

Samples Relinquished By (Print Name and Sign): <u>Kelsey Doepker</u>	Date/Time: <u>Sept. 4/18:56</u>	Samples Received By (Print Name and Sign): <u>Kufina Anngol Khingol</u>	Date/Time: <u>04 Sept 2015</u>	Pink Copy - Client Yellow Copy - AGAT White Copy - AGAT	Page <u>1</u> of <u>2</u> N <sup>o</sup> : AB <b>045162</b>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time: <u>@ 18:56</u>		
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:		





715 SEP-4 10:06

GC/SC015985

## Chain of Custody Record

P: 403.735.2005 • F: 403.735.2771

### Report to:

Company: Clifton Associates Ltd. Same as COC#: 045162

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	COME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/PHG/F1	PHG/F2	VOCS	PAHS	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) <sup>potentially</sup>
6942236	1942	GW	Sept. 4, 2015/13:58		4											✓	✓	✓		✓	✓	✓
237	1943		Sept. 4, 2015/13:35		4											✓	✓	✓		✓	✓	✓
238	1948		Sept. 4, 2015/14:20		4											✓	✓	✓		✓	✓	✓
239	1952		Sept. 4, 2015/15:20		4											✓	✓	✓		✓	✓	✓
<del>240</del>	1952		Sept. 4, 2015/15:20		4											✓	✓	✓		✓	✓	✓
240	1953		Sept. 4, 2015/9:45		4											✓	✓	✓		✓	✓	✓
241	1961		Sept. 4, 2015/15:55		4											✓	✓	✓		✓	✓	✓
242	1963		Sept. 4, 2015/16:10		4											✓	✓	✓		✓	✓	✓
243	Trip Blank 2	water	Sept. 4		2											✓	✓	✓		✓	✓	✓

Samples Relinquished By (Print Name and Sign): <u>Kelsey Doepker Kelsey Doepker</u>	Date/Time <u>Sept. 4/18:56</u>	Samples Received By (Print Name and Sign): <u>Rufine Amargal Amargal</u>	Date/Time <u>04 Sept - 2015</u>	Pink Copy - Client	Page <u>2</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time <u>18:56</u>	Yellow Copy - AGAT	Nº: AB <b>005054</b> A
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	White Copy - AGAT	



**RECEIVING BASICS - Shipping**

Company/Consultant: Sears Clifton

Courier: D/D Prepaid Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_

Custody Seal Intact: Yes  No  NA

TAT: <24hr 24-48hr 48-72hr  Reg Other \_\_\_\_\_

Cooler Quantity: 1

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes  No

Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity , Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* , Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry 18-Sept-2015

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES  NO  Precaution Taken: \_\_\_\_\_

Legal Samples: Yes  No

International Samples: Yes  No

Tape Sealed: Yes  No

Coolant Used: Icepack  Bagged Ice  Free Ice  Free Water  None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 6 + 6 + 6 = 6 °C    2 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

3 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    4 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

5 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    6 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

7 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    8 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

9 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    10 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: 15C-015985

Samples Damaged: Yes  No  If YES why? \_\_\_\_\_

No Bubble Wrap    Frozen    Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts Payable

PROJECT: CG2430E15

AGAT WORK ORDER: 15C017599

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 15, 2015

PAGES (INCLUDING COVER): 11

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

# Certificate of Analysis

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-15

SAMPLE DESCRIPTION:		1704	
SAMPLE TYPE:		Water	
DATE SAMPLED:		9/8/2015	
Parameter	Unit	G / S	RDL
			6954474
Benzene	mg/L	0.05	1.92
Toluene	mg/L	0.03	47.8
Ethylbenzene	mg/L	0.05	7.97
Xylenes	mg/L	0.05	69.0
C6 - C10 (F1)	mg/L	10	551
C6 - C10 (F1 minus BTEX)	mg/L	10	424
C10 - C16 (F2)	mg/L	0.1	20.8
Surrogate	Unit	Acceptable Limits	
Toluene-d8 (BTEX)	%	50-150	100
o-Terphenyl (F2)	%	50-150	108

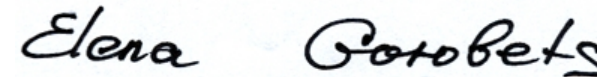
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6954474

The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
 C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

Detection limits elevated due to matrix interferences.

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

## Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-15

SAMPLE DESCRIPTION:		1704	
SAMPLE TYPE:		Water	
DATE SAMPLED:		9/8/2015	
Parameter	Unit	G / S	RDL
			6954474
Acridine	mg/L	0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	0.615
Naphthalene	mg/L	0.00001	0.860
Acenaphthylene	mg/L	0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001
Fluorene	mg/L	0.00001	0.00475
Phenanthrene	mg/L	0.00001	0.00705
Anthracene	mg/L	0.000010	0.00049
Fluoranthene	mg/L	0.00001	0.00073
Pyrene	mg/L	0.00001	0.00224
Benzo[a]anthracene	mg/L	0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001
Benzo[b+ j]fluoranthene	mg/L	0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits	
2-Fluorobiphenyl (PAH)	%	50-150	129
p-Terphenyl-d14 (PAH)	%	50-150	121

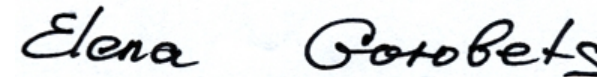
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6954474

Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-15

SAMPLE DESCRIPTION: 1704  
 SAMPLE TYPE: Water  
 DATE SAMPLED: 9/8/2015  
 G / S RDL 6954474

Parameter	Unit	G / S	RDL	6954474
Chloromethane	mg/L		0.1	<0.1
Vinyl Chloride	mg/L		0.08	<0.08
Bromomethane	mg/L		0.1	<0.1
Chloroethane	mg/L		0.1	<0.1
Trichlorofluoromethane	mg/L		0.1	<0.1
Acetone	mg/L		1	<1
1,1-Dichloroethylene	mg/L		0.1	<0.1
Methylene Chloride	mg/L		0.1	<0.1
Methyl tert-Butyl Ether	mg/L		0.1	<0.1
Methyl Ethyl Ketone	mg/L		1	<1
trans-1,2-Dichloroethylene	mg/L		0.1	<0.1
1,1-Dichloroethane	mg/L		0.1	<0.1
cis-1,2 Dichloroethylene	mg/L		0.1	<0.1
Chloroform	mg/L		0.1	<0.1
1,2-Dichloroethane	mg/L		0.1	<0.1
1,1,1-Trichloroethane	mg/L		0.1	<0.1
Carbon Tetrachloride	mg/L		0.05	<0.05
Benzene	mg/L		0.05	1.92
1,2-Dichloropropane	mg/L		0.1	<0.1
Trichloroethylene	mg/L		0.1	<0.1
Bromodichloromethane	mg/L		0.1	<0.1
trans-1,3-Dichloropropene	mg/L		0.1	<0.1
Methyl Isobutyl Ketone	mg/L		1	<1
cis-1,3-Dichloropropene	mg/L		0.1	<0.1
1,1,2-Trichloroethane	mg/L		0.1	<0.1
Toluene	mg/L		0.03	47.8
2-Hexanone	mg/L		1	<1
Dibromochloromethane	mg/L		0.1	<0.1
Ethylene Dibromide	mg/L		0.1	<0.1
Tetrachloroethene	mg/L		0.1	<0.1

Certified By: Elena Gorobets



## Certificate of Analysis

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-15

SAMPLE DESCRIPTION: 1704  
SAMPLE TYPE: Water  
DATE SAMPLED: 9/8/2015  
G / S RDL 6954474

Parameter	Unit	G / S	RDL	6954474
1,1,1,2-Tetrachloroethane	mg/L		0.1	<0.1
Chlorobenzene	mg/L		0.1	<0.1
Ethylbenzene	mg/L		0.05	7.97
m,p-Xylenes	mg/L		0.05	52.6
Bromoform	mg/L		0.1	<0.1
Styrene	mg/L		0.1	<0.1
1,1,2,2-Tetrachloroethane	mg/L		0.1	<0.1
o-Xylene	mg/L		0.05	16.4
1,3-Dichlorobenzene	mg/L		0.05	<0.05
1,4-Dichlorobenzene	mg/L		0.05	<0.05
1,2-Dichlorobenzene	mg/L		0.05	<0.05
1,2,4-Trichlorobenzene	mg/L		0.1	<0.1
Xylenes	mg/L		0.05	69.0
Surrogate	Unit	Acceptable Limits		
Toluene-d8	%	50-150		100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard  
6954474 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By: Elena Gorobets

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis														
RPT Date: Sep 15, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits
							Lower	Upper	Lower		Upper	Lower		Upper

**Petroleum Hydrocarbons (BTEX/F1-F2) in Water**

Benzene	2152	6954476	0.510	0.512	0.4%	< 0.0005	93%	80%	120%	92%	80%	120%	93%	70%	130%
Toluene	2152	6954476	0.0319	0.0318	0.3%	< 0.0003	90%	80%	120%	90%	80%	120%	90%	70%	130%
Ethylbenzene	2152	6954476	0.0087	0.0088	1.1%	< 0.0005	89%	80%	120%	88%	80%	120%	84%	70%	130%
Xylenes	2152	6954476	1.02	1.02	0.0%	< 0.0005	90%	80%	120%	87%	80%	120%	87%	70%	130%
C6 - C10 (F1)	2152	6954476	3.3	3.3	0.0%	< 0.1	84%	80%	120%	106%	80%	120%	88%	70%	130%
C10 - C16 (F2)	373	6953450	<0.1	<0.1	NA	< 0.1	103%	80%	120%	99%	80%	120%	96%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Polyaromatic Hydrocarbon Analysis - Water FWAL**

Acridine	636	6954488	< 0.00005	< 0.00005	NA	< 0.00005	105%	70%	130%	111%	70%	130%	112%	70%	130%
Quinoline	636	6954488	< 0.0001	< 0.0001	NA	< 0.0001	104%	70%	130%	117%	70%	130%	115%	70%	130%
2-Methylnaphthalene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	99%	70%	130%	122%	70%	130%	113%	70%	130%
Naphthalene	636	6954488	0.00003	0.00003	NA	< 0.00001	99%	70%	130%	127%	70%	130%	118%	70%	130%
Acenaphthylene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	84%	70%	130%	107%	70%	130%	101%	70%	130%
Acenaphthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	115%	70%	130%	122%	70%	130%	117%	70%	130%
Fluorene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	98%	70%	130%	111%	70%	130%	106%	70%	130%
Phenanthrene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	118%	70%	130%	124%	70%	130%	125%	70%	130%
Anthracene	636	6954488	< 0.000010	< 0.000010	NA	< 0.000010	82%	70%	130%	116%	70%	130%	108%	70%	130%
Fluoranthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	93%	70%	130%	115%	70%	130%	107%	70%	130%
Pyrene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	107%	70%	130%	119%	70%	130%	128%	70%	130%
Benzo[a]anthracene	636	6954488	< 0.000010	< 0.000010	NA	< 0.000010	91%	70%	130%	99%	70%	130%	93%	70%	130%
Chrysene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	120%	70%	130%	114%	70%	130%	128%	70%	130%
Benzo[b+j]fluoranthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	99%	70%	130%	114%	70%	130%	110%	70%	130%
Benzo[k]fluoranthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	120%	70%	130%	84%	70%	130%	79%	70%	130%
Benzo[a]pyrene	636	6954488	< 0.000007	< 0.000007	NA	< 0.000007	115%	70%	130%	96%	70%	130%	92%	70%	130%
Indeno[1,2,3-cd]pyrene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	78%	70%	130%	127%	70%	130%	116%	70%	130%
Benzo[ghi]perylene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	85%	70%	130%	116%	70%	130%	123%	70%	130%
Dibenzo[ah]anthracene	636	6954488	< 0.000008	< 0.000008	NA	< 0.000008	80%	70%	130%	125%	70%	130%	121%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Volatile Organic Compounds in Water**

Chloromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	68%	60%	140%	66%	60%	140%	68%	60%	140%
Vinyl Chloride	2308	6954479	<0.0008	<0.0008	NA	< 0.0008	100%	60%	140%	75%	60%	140%	72%	60%	140%
Bromomethane	2308	6954479	<0.001	<0.001	NA	< 0.001	117%	60%	140%	101%	60%	140%	93%	60%	140%
Chloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	93%	60%	140%	88%	60%	140%	91%	60%	140%
Trichlorofluoromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	88%	60%	140%	73%	60%	140%	86%	60%	140%
Acetone	2308	6954479	<0.01	<0.01	NA	< 0.01	126%	60%	140%	101%	60%	140%	93%	60%	140%
1,1-Dichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	81%	60%	140%	83%	60%	140%	83%	60%	140%
Methylene Chloride	2308	6954479	<0.001	<0.001	NA	< 0.001	109%	60%	140%	92%	60%	140%	91%	60%	140%
Methyl tert-Butyl Ether	2308	6954479	<0.001	<0.001	NA	< 0.001	76%	60%	140%	80%	60%	140%	85%	60%	140%



## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 15, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Methyl Ethyl Ketone	2308	6954479	<0.01	<0.01	NA	< 0.01	86%	60%	140%	74%	60%	140%	97%	60%	140%	
trans-1,2-Dichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	81%	60%	140%	83%	60%	140%	83%	60%	140%	
1,1-Dichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	86%	60%	140%	89%	60%	140%	92%	60%	140%	
cis-1,2 Dichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	85%	60%	140%	89%	60%	140%	98%	60%	140%	
Chloroform	2308	6954479	<0.001	<0.001	NA	< 0.001	86%	60%	140%	90%	60%	140%	99%	60%	140%	
1,2-Dichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	88%	60%	140%	94%	60%	140%	107%	60%	140%	
1,1,1-Trichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	112%	60%	140%	97%	60%	140%	95%	60%	140%	
Carbon Tetrachloride	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	107%	60%	140%	96%	60%	140%	90%	60%	140%	
Benzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	116%	60%	140%	99%	60%	140%	107%	60%	140%	
1,2-Dichloropropane	2308	6954479	<0.001	<0.001	NA	< 0.001	91%	60%	140%	97%	60%	140%	113%	60%	140%	
Trichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	123%	60%	140%	106%	60%	140%	111%	60%	140%	
Bromodichloromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	80%	60%	140%	91%	60%	140%	106%	60%	140%	
trans-1,3-Dichloropropene	2308	6954479	<0.001	<0.001	NA	< 0.001	77%	60%	140%	91%	60%	140%	107%	60%	140%	
Methyl Isobutyl Ketone	2308	6954479	<0.01	<0.01	NA	< 0.01	90%	60%	140%	90%	60%	140%	127%	60%	140%	
cis-1,3-Dichloropropene	2308	6954479	<0.001	<0.001	NA	< 0.001	83%	60%	140%	93%	60%	140%	109%	60%	140%	
1,1,2-Trichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	122%	60%	140%	107%	60%	140%	123%	60%	140%	
Toluene	2308	6954479	<0.0003	<0.0003	NA	< 0.0003	103%	60%	140%	89%	60%	140%	96%	60%	140%	
2-Hexanone	2308	6954479	<0.01	<0.01	NA	< 0.01	76%	60%	140%	71%	60%	140%	118%	60%	140%	
Dibromochloromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	83%	60%	140%	94%	60%	140%	111%	60%	140%	
Ethylene Dibromide	2308	6954479	<0.001	<0.001	NA	< 0.001	79%	60%	140%	88%	60%	140%	110%	60%	140%	
Tetrachloroethene	2308	6954479	<0.001	<0.001	NA	< 0.001	129%	60%	140%	108%	60%	140%	111%	60%	140%	
1,1,1,2-Tetrachloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	100%	60%	140%	95%	60%	140%	94%	60%	140%	
Chlorobenzene	2308	6954479	<0.001	<0.001	NA	< 0.001	108%	60%	140%	93%	60%	140%	104%	60%	140%	
Ethylbenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	98%	60%	140%	86%	60%	140%	95%	60%	140%	
m,p-Xylenes	2308	6954479	<0.0005	0.0008	NA	< 0.0005	101%	60%	140%	90%	60%	140%	101%	60%	140%	
Bromoform	2308	6954479	<0.001	<0.001	NA	< 0.001	78%	60%	140%	104%	60%	140%	130%	60%	140%	
Styrene	2308	6954479	<0.001	<0.001	NA	< 0.001	76%	60%	140%	88%	60%	140%	106%	60%	140%	
1,1,2,2-Tetrachloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	109%	60%	140%	127%	60%	140%	127%	60%	140%	
o-Xylene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	103%	60%	140%	96%	60%	140%	111%	60%	140%	
1,3-Dichlorobenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	78%	60%	140%	86%	60%	140%	104%	60%	140%	
1,4-Dichlorobenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	71%	60%	140%	79%	60%	140%	96%	60%	140%	
1,2-Dichlorobenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	100%	60%	140%	86%	60%	140%	99%	60%	140%	
1,2,4-Trichlorobenzene	2308	6954479	<0.001	<0.001	NA	< 0.001	82%	60%	140%	91%	60%	140%	118%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By: *Elena Gorobets*

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C017599

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



AGAT Laboratories

2910 12 Street NE  
Calgary, Alberta T2E 7P7  
P: 403.735.2005 • F: 403.735.2771  
webearth.agatlabs.com

**Chain of Custody Record**

**Emergency Support Services Hotline 1-855-AGAT 245 (1-855-242-8245)**

**Report Information**  
Company: Clifton Associates  
Contact: Daniel Budai  
Address: 2222 - 30th AVE NE  
Calgary AB T2E 7K9  
Phone: (403) 263-2556 Fax: (403) 231-9033  
LSD:  
Client Project #: CG 2430 E15

**Report Information**  
1. Name: Daniel Budai  
Email: daniel\_budai@clifton.ca  
2. Name: Park Lehar  
Email: park\_lehar@clifton.ca  
3. Name: Stephen d'Abadie  
Email: stephen\_dabadie@clifton.ca

**Requirements** (Selection may impact detection limits)  
 CCME  AB Tier 1  BC CSR  
 Agricultural  AW  
 Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  D50 (Drilling)  SPIGEC

**Invoice To** Same Yes  No  
Company: Sears Canada Inc.  
Contact:  
Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2C3  
Phone:  
PO/AFE#: CG 2430 E15 Fax:

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT
69594974	1704	GW ↓	Sept 8/16:45	Sample contains 2 free product please run analysis on GW component
	1704			

**Report Format**  
 Single Sample per Page  
 Multiple Samples per Page

**Turnaround Time Required (TAT)**  
Regular TAT  5 to 7 business days  
Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

Date Required:

**Laboratory Use Only**  
Arrival Temperature: 5C  
AGAT Job Number: 15C 019599  
Date and Time: 15 SEP 9 11:14

**RUSH TAT REQUESTS**  
UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals □ HW-S □ Cr <sup>6</sup> □ Hg	Water Metals □ Dissolved □ Total □ Hg □ Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEXS/VP/H/EPH □ LEPH/HEPH □	BTEX/F1	Y Y	Y Y	HOLD FOR 60 DAYS	PREPARED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
2											Y	Y	Y			

Date/Time	Samples Received By (Print Name and Sign)	Date/Time	Samples Received By (Print Name and Sign)	Date/Time	Samples Received By (Print Name and Sign)
Sept 9 / 11:15	Kekey Dooper	Sept 9 / 11:15	Kekey Dooper	9 Sept 2015	RUBEN M.

Page 1 of 1  
Nº: AB 045164  
White Copy - AGAT 11.14

**SAMPLE INTEGRITY RECEIPT FORM**

**AGAT Laboratories**

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 5 + 5 = 5 °C 2 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

3 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 4 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

5 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 6 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

7 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 8 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

9 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 10 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: K50192599

Samples Damaged: Yes  No  If YES why? \_\_\_\_\_

No Bubble Wrap  Frozen  Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes  No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**RECEIVING BASICS - Shipping**

Company/Consultant: SOARS / COLLECTION

Courier: DLO Prepaid  Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_

Custody Seal Intact: Yes  No  NA

TAT: <24hr 24-48hr 48-72hr  Reg  Other \_\_\_\_\_

Cooler Quantity: \_\_\_\_\_

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes  No

Inorganic Tests (Please Circle): Mibi, BOD, Nitrate/Nitrite, Turbidity, Microtox, Ortho PO4, Tedlar Bag, Residual Chlorine, Chlorophyll\*, Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry SEP 15 1645

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES  NO  Precaution Taken: \_\_\_\_\_

Legal Samples: Yes  No

International Samples: Yes  No

Tape Sealed: Yes  No

Coolant Used: Icepack  Bagged Ice  Free Ice  Free Water  None

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts Payable

PROJECT: CG2430 E09

AGAT WORK ORDER: 15C017601

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 15, 2015

PAGES (INCLUDING COVER): 17

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-14

Parameter	Unit	SAMPLE DESCRIPTION:		1915-1	9915-1	1959	1903	1915-2	9915-2	1916	1913
		G / S	RDL	6954476	6954477	6954478	6954479	6954480	6954481	6954484	6954486
Benzene	mg/L		0.0005	0.510	0.523	<0.0005	<0.0005	0.500	0.503	<0.0005	<0.0005
Toluene	mg/L		0.0003	0.0319	0.0327	<0.0003	<0.0003	0.0529	0.0520	<0.0003	<0.0003
Ethylbenzene	mg/L		0.0005	0.0087	0.0088	<0.0005	<0.0005	0.0253	0.0233	<0.0005	<0.0005
Xylenes	mg/L		0.0005	1.02	1.07	<0.0005	<0.0005	1.59	1.53	<0.0005	<0.0005
C6 - C10 (F1)	mg/L		0.1	3.3	3.3	<0.1	<0.1	4.4	4.4	<0.1	<0.1
C6 - C10 (F1 minus BTEX)	mg/L		0.1	1.8	1.7	<0.1	<0.1	2.2	2.3	<0.1	<0.1
C10 - C16 (F2)	mg/L		0.1	0.6	0.6	<0.1	<0.1	0.8	0.8	<0.1	<0.1
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	95	95	96	96	100	98	97	95
o-Terphenyl (F2)	%		50-150	104	102	102	102	102	101	105	101
		SAMPLE DESCRIPTION:		1914	1912	1905	9905				
		SAMPLE TYPE:		Water	Water	Water	Water				
		DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015	9/8/2015				
Parameter	Unit	G / S	RDL	6954487	6954488	6954489	6954490				
Benzene	mg/L		0.0005	<0.0005	0.727	0.110	0.112				
Toluene	mg/L		0.0003	<0.0003	0.0004	0.0038	0.0037				
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005	0.243	0.231				
Xylenes	mg/L		0.0005	<0.0005	0.0021	1.56	1.45				
C6 - C10 (F1)	mg/L		0.1	<0.1	0.8	3.3	3.3				
C6 - C10 (F1 minus BTEX)	mg/L		0.1	<0.1	<0.1	1.4	1.5				
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1	2.7	3.1				
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	94	92	98	95				
o-Terphenyl (F2)	%		50-150	103	102	103	104				

Certified By:

*Elena Gorobets*



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-14

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6954476-6954490 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naphth ) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*





## Certificate of Analysis

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TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-11

Parameter	Unit	SAMPLE DESCRIPTION:		1915-1	9915-1	1915-2	9915-2	1916	1913	1914	1912
		G / S	RDL	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015
Acridine	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	0.0212	0.0200	0.0254	0.0256	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	mg/L	0.00001	0.0245	0.0229	0.0232	0.0242	<0.00001	<0.00001	<0.00001	<0.00001	0.00003
Acenaphthylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/L	0.00001	0.00007	0.00006	0.00008	0.00008	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/L	0.00001	0.00005	0.00004	0.00005	0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits									
2-Fluorobiphenyl (PAH)	%	50-150	117	110	111	107	107	119	109	108	
p-Terphenyl-d14 (PAH)	%	50-150	120	115	105	110	115	126	110	118	

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-11

Parameter	Unit	SAMPLE DESCRIPTION:		1905	9905
		G / S	RDL	6954489	6954490
Acridine	mg/L		0.00005	<0.00005	<0.00005
Quinoline	mg/L		0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L		0.00001	0.0416	0.0398
Naphthalene	mg/L		0.00001	0.110	0.105
Acenaphthylene	mg/L		0.00001	<0.00001	<0.00001
Acenaphthene	mg/L		0.00001	<0.00001	<0.00001
Fluorene	mg/L		0.00001	0.00054	0.00055
Phenanthrene	mg/L		0.00001	0.00091	0.00085
Anthracene	mg/L		0.000010	0.00016	0.00015
Fluoranthene	mg/L		0.00001	0.00040	0.00036
Pyrene	mg/L		0.00001	0.00062	0.00055
Benzo[a]anthracene	mg/L		0.000010	0.00020	0.00015
Chrysene	mg/L		0.00001	0.00015	0.00015
Benzo[b+j]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L		0.00001	0.00010	0.00008
Benzo[a]pyrene	mg/L		0.000007	0.00006	0.00005
Indeno[1,2,3-cd]pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L		0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L		0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L		0.0000096	0.000103	0.0000873
Surrogate	Unit	Acceptable Limits			
2-Fluorobiphenyl (PAH)	%	50-150		124	133
p-Terphenyl-d14 (PAH)	%	50-150		119	127

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6954476-6954490 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1915-1	9915-1	1959	1903	1915-2	9915-2	1916	1913
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015
		G / S	RDL	6954476	6954477	6954478	6954479	6954480	6954481	6954484	6954486
Chloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L		0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L		0.001	0.024	0.026	<0.001	<0.001	0.023	0.020	<0.001	<0.001
1,1,1-Trichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L		0.0005	0.510	0.523	<0.0005	<0.0005	0.500	0.503	<0.0005	<0.0005
1,2-Dichloropropane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L		0.0003	0.0319	0.0327	<0.0003	<0.0003	0.0529	0.0520	<0.0003	<0.0003
2-Hexanone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1915-1	9915-1	1959	1903	1915-2	9915-2	1916	1913
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015	9/8/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	0.0087	0.0088	<0.0005	<0.0005	0.0253	0.0233	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L	0.0005	0.657	0.675	<0.0005	<0.0005	1.05	1.01	<0.0005	<0.0005	<0.0005
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	0.368	0.399	<0.0005	<0.0005	0.545	0.523	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	1.02	1.07	<0.0005	<0.0005	1.59	1.53	<0.0005	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-150		100	98	100	99	99	98	98	98

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1914	1912	1905	9905	Trip Blank 3
		G / S	RDL	6954487	6954488	6954489	6954490	6954491
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	0.041	0.075	0.071	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	0.727	0.110	0.112	<0.0005	<0.0005
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	0.0004	0.0038	0.0037	<0.0003	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-13

Parameter	Unit	SAMPLE DESCRIPTION:		1914	1912	1905	9905	Trip Blank 3
		G / S	RDL	6954487	6954488	6954489	6954490	6954491
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005	0.243	0.231	<0.0005
m,p-Xylenes	mg/L		0.0005	<0.0005	<0.0005	1.49	1.38	<0.0005
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L		0.0005	<0.0005	0.0021	0.0708	0.0728	<0.0005
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L		0.0005	<0.0005	0.0021	1.56	1.45	<0.0005
Surrogate	Unit	Acceptable Limits						
Toluene-d8	%	50-150		98	97	96	101	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6954476-6954491 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By: *Elena Gorobets*

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E09  
 SAMPLING SITE:

AGAT WORK ORDER: 15C017601  
 ATTENTION TO: Accounts Payable  
 SAMPLED BY:

Trace Organics Analysis															
RPT Date:			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Petroleum Hydrocarbons (BTEX/F1-F2) in Water**

Benzene	2152	6954476	0.510	0.512	0.4%	< 0.0005	93%	80%	120%	92%	80%	120%	93%	70%	130%
Toluene	2152	6954476	0.0319	0.0318	0.3%	< 0.0003	90%	80%	120%	90%	80%	120%	90%	70%	130%
Ethylbenzene	2152	6954476	0.0087	0.0088	1.1%	< 0.0005	89%	80%	120%	88%	80%	120%	84%	70%	130%
Xylenes	2152	6954476	1.02	1.02	0.0%	< 0.0005	90%	80%	120%	87%	80%	120%	87%	70%	130%
C6 - C10 (F1)	2152	6954476	3.3	3.3	0.0%	< 0.1	84%	80%	120%	106%	80%	120%	88%	70%	130%
C10 - C16 (F2)	373	6953450	<0.1	<0.1	NA	< 0.1	103%	80%	120%	99%	80%	120%	96%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Volatile Organic Compounds in Water**

Chloromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	68%	60%	140%	66%	60%	140%	68%	60%	140%
Vinyl Chloride	2308	6954479	<0.0008	<0.0008	NA	< 0.0008	100%	60%	140%	75%	60%	140%	72%	60%	140%
Bromomethane	2308	6954479	<0.001	<0.001	NA	< 0.001	117%	60%	140%	101%	60%	140%	93%	60%	140%
Chloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	93%	60%	140%	88%	60%	140%	91%	60%	140%
Trichlorofluoromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	88%	60%	140%	73%	60%	140%	86%	60%	140%
Acetone	2308	6954479	<0.01	<0.01	NA	< 0.01	126%	60%	140%	101%	60%	140%	93%	60%	140%
1,1-Dichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	81%	60%	140%	83%	60%	140%	83%	60%	140%
Methylene Chloride	2308	6954479	<0.001	<0.001	NA	< 0.001	109%	60%	140%	92%	60%	140%	91%	60%	140%
Methyl tert-Butyl Ether	2308	6954479	<0.001	<0.001	NA	< 0.001	76%	60%	140%	80%	60%	140%	85%	60%	140%
Methyl Ethyl Ketone	2308	6954479	<0.01	<0.01	NA	< 0.01	86%	60%	140%	74%	60%	140%	97%	60%	140%
trans-1,2-Dichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	81%	60%	140%	83%	60%	140%	83%	60%	140%
1,1-Dichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	86%	60%	140%	89%	60%	140%	92%	60%	140%
cis-1,2 Dichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	85%	60%	140%	89%	60%	140%	98%	60%	140%
Chloroform	2308	6954479	<0.001	<0.001	NA	< 0.001	86%	60%	140%	90%	60%	140%	99%	60%	140%
1,2-Dichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	88%	60%	140%	94%	60%	140%	107%	60%	140%
1,1,1-Trichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	112%	60%	140%	97%	60%	140%	95%	60%	140%
Carbon Tetrachloride	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	107%	60%	140%	96%	60%	140%	90%	60%	140%
Benzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	116%	60%	140%	99%	60%	140%	107%	60%	140%
1,2-Dichloropropane	2308	6954479	<0.001	<0.001	NA	< 0.001	91%	60%	140%	97%	60%	140%	113%	60%	140%
Trichloroethylene	2308	6954479	<0.001	<0.001	NA	< 0.001	123%	60%	140%	106%	60%	140%	111%	60%	140%
Bromodichloromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	80%	60%	140%	91%	60%	140%	106%	60%	140%
trans-1,3-Dichloropropene	2308	6954479	<0.001	<0.001	NA	< 0.001	77%	60%	140%	91%	60%	140%	107%	60%	140%
Methyl Isobutyl Ketone	2308	6954479	<0.01	<0.01	NA	< 0.01	90%	60%	140%	90%	60%	140%	127%	60%	140%
cis-1,3-Dichloropropene	2308	6954479	<0.001	<0.001	NA	< 0.001	83%	60%	140%	93%	60%	140%	109%	60%	140%
1,1,2-Trichloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	122%	60%	140%	107%	60%	140%	123%	60%	140%
Toluene	2308	6954479	<0.0003	<0.0003	NA	< 0.0003	103%	60%	140%	89%	60%	140%	96%	60%	140%
2-Hexanone	2308	6954479	<0.01	<0.01	NA	< 0.01	76%	60%	140%	71%	60%	140%	118%	60%	140%
Dibromochloromethane	2308	6954479	<0.001	<0.001	NA	< 0.001	83%	60%	140%	94%	60%	140%	111%	60%	140%
Ethylene Dibromide	2308	6954479	<0.001	<0.001	NA	< 0.001	79%	60%	140%	88%	60%	140%	110%	60%	140%
Tetrachloroethene	2308	6954479	<0.001	<0.001	NA	< 0.001	129%	60%	140%	108%	60%	140%	111%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E09  
 SAMPLING SITE:

AGAT WORK ORDER: 15C017601  
 ATTENTION TO: Accounts Payable  
 SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1,1,2-Tetrachloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	100%	60%	140%	95%	60%	140%	94%	60%	140%
Chlorobenzene	2308	6954479	<0.001	<0.001	NA	< 0.001	108%	60%	140%	93%	60%	140%	104%	60%	140%
Ethylbenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	98%	60%	140%	86%	60%	140%	95%	60%	140%
m,p-Xylenes	2308	6954479	<0.0005	0.0008	NA	< 0.0005	101%	60%	140%	90%	60%	140%	101%	60%	140%
Bromoform	2308	6954479	<0.001	<0.001	NA	< 0.001	78%	60%	140%	104%	60%	140%	130%	60%	140%
Styrene	2308	6954479	<0.001	<0.001	NA	< 0.001	76%	60%	140%	88%	60%	140%	106%	60%	140%
1,1,2,2-Tetrachloroethane	2308	6954479	<0.001	<0.001	NA	< 0.001	109%	60%	140%	127%	60%	140%	127%	60%	140%
o-Xylene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	103%	60%	140%	96%	60%	140%	111%	60%	140%
1,3-Dichlorobenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	78%	60%	140%	86%	60%	140%	104%	60%	140%
1,4-Dichlorobenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	71%	60%	140%	79%	60%	140%	96%	60%	140%
1,2-Dichlorobenzene	2308	6954479	<0.0005	<0.0005	NA	< 0.0005	100%	60%	140%	86%	60%	140%	99%	60%	140%
1,2,4-Trichlorobenzene	2308	6954479	<0.001	<0.001	NA	< 0.001	82%	60%	140%	91%	60%	140%	118%	60%	140%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	636	6954488	< 0.00005	< 0.00005	NA	< 0.00005	105%	70%	130%	111%	70%	130%	112%	70%	130%
Quinoline	636	6954488	< 0.0001	< 0.0001	NA	< 0.0001	104%	70%	130%	117%	70%	130%	115%	70%	130%
2-Methylnaphthalene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	99%	70%	130%	122%	70%	130%	113%	70%	130%
Naphthalene	636	6954488	0.00003	0.00003	NA	< 0.00001	99%	70%	130%	127%	70%	130%	118%	70%	130%
Acenaphthylene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	84%	70%	130%	107%	70%	130%	101%	70%	130%
Acenaphthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	115%	70%	130%	122%	70%	130%	117%	70%	130%
Fluorene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	98%	70%	130%	111%	70%	130%	106%	70%	130%
Phenanthrene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	118%	70%	130%	124%	70%	130%	125%	70%	130%
Anthracene	636	6954488	< 0.000010	< 0.000010	NA	< 0.000010	82%	70%	130%	116%	70%	130%	108%	70%	130%
Fluoranthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	93%	70%	130%	115%	70%	130%	107%	70%	130%
Pyrene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	107%	70%	130%	119%	70%	130%	128%	70%	130%
Benzo[a]anthracene	636	6954488	< 0.000010	< 0.000010	NA	< 0.000010	91%	70%	130%	99%	70%	130%	93%	70%	130%
Chrysene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	120%	70%	130%	114%	70%	130%	128%	70%	130%
Benzo[b+j]fluoranthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	99%	70%	130%	114%	70%	130%	110%	70%	130%
Benzo[k]fluoranthene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	120%	70%	130%	84%	70%	130%	79%	70%	130%
Benzo[a]pyrene	636	6954488	< 0.000007	< 0.000007	NA	< 0.000007	115%	70%	130%	96%	70%	130%	92%	70%	130%
Indeno[1,2,3-cd]pyrene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	78%	70%	130%	127%	70%	130%	116%	70%	130%
Benzo[ghi]perylene	636	6954488	< 0.00001	< 0.00001	NA	< 0.00001	85%	70%	130%	116%	70%	130%	123%	70%	130%
Dibenzo[ah]anthracene	636	6954488	< 0.000008	< 0.000008	NA	< 0.000008	80%	70%	130%	125%	70%	130%	121%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

  
 Certified By:



## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C017601

PROJECT: CG2430 E09

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webearth.agatlabs.com

## Chain of Custody Record

**Emergency Support Services Hotline 1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates  
 Contact: Daniel Budai  
 Address: 2222 - 30th Ave NE  
Calgary, AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 231-9033  
 LSD: \_\_\_\_\_  
 Client Project #: G2430 E15

### Report Information

1. Name: Daniel Budai  
 Email: daniel\_budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark\_lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen-dabadie@clifton.ca

### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  D50 (Drilling)  SPIGEC

### Invoice To

Same Yes  No   
 Company: Sears Canada Inc  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2G5  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/AFE#: G2430 E15

**Laboratory Use Only**  
 Arrival Temperature: 7°C  
 AGAT Job Number: 1501709  
 Date and Time: 15 SEP 9 11:15

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

RUSH TAT REQUESTS  
 UPON SELECTING A  
 RUSH TAT, THE CLIENT  
 ACCEPTS THAT A  
 RUSH SURCHARGE  
 WILL BE ADDED  
 TO THE INVOICE.  
 SEE BACK FOR  
 SURCHARGE.

Date Required: \_\_\_\_\_

### Report Format

Single Sample per Page  
 Multiple Samples per Page

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEXs/VP/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) "Identifiy"
<u>6954476</u>	<u>1915-1</u>	<u>GW</u>	<u>Sept. 8/10:35</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>477</u>	<u>9915-1</u>		<u>Sept. 8/10:35</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>478</u>	<u>1915-1</u>		<u>Sept. 8/10:35</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>479</u>	<u>9915-1</u>		<u>Sept. 8/10:35</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>480</u>	<u>1903</u>		<u>Sept. 8/16:20</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>481</u>	<u>1915-2</u>		<u>Sept. 8/15:45</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>482</u>	<u>9915-2</u>		<u>Sept. 8/15:45</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>483</u>	<u>9915-2</u>		<u>Sept. 8/15:45</u>		<u>4</u>												<u>Y</u>	<u>Y</u>
<u>484</u>	<u>1916</u>		<u>Sept. 8/15:25</u>		<u>4</u>												<u>Y</u>	<u>Y</u>

Samples Relinquished By (Print Name and Sign): <u>Hebej Dwyer</u>	Date/Time: <u>Sept. 9/11:15</u>	Samples Received By (Print Name and Sign): <u>Web Jn</u>	Date/Time: <u>9/11/15</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:

Page 1 of 2  
 N<sup>o</sup>: AB **045163**



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 web@earth.agatiabs.com

## Chain of Custody Record

**Emergency Support Services Hotline 1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates  
 Contact: Daniel Budai  
 Address: 2222 - 30th AVE NE  
 Calgary, AB T2E 7K9  
 Phone: (403) 263-5556 Fax: (403) 231-9033  
 LSD:  
 Client Project #: G2430 E15

### Report Information

1. Name: Daniel Budai  
 Email: daniel-budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark.lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen-dabadie@clifton.ca

### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Industrial  Residential/Park  Commercial  DW  
 Drinking Water  Natural Area  AB Surface Water  
 FWAL  Other  D50 (Drilling)  SPIGEC

### Invoice To

Same Yes  No   
 Company: Sears Canada Inc  
 Contact:  
 Address: 290 Yonge Street Suite 700  
 Toronto, ON M5B 2G3  
 Phone:  
 PO/AFE#: G2430 E15 Fax:

Laboratory Use Only  
 Arrival Temperature: 7°C  
 AGAT Job Number: HCO17601  
 Date and Time: 15 SEP-9 11:15

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT. THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

Date Required:

### Report Format

Single Sample per Page  
 Multiple Samples per Page

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> C <sup>e</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> C <sup>e</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
4	5												
4	5												
4	5												
4	5												
4	5												
4	5												
4	5												
4	5												
4	5												

Sample Requisitioned By (Print Name and Sign):	Date/Time	Samples Received By (Print Name and Sign):	Date/Time	Pink Copy - Client	Page	of
Keley Sawyer-Kelley Sawyer	2009/9/16/15	Keley Sawyer	2009/9/16/15	Yellow Copy - AGAT		
				White Copy - AGAT		

Nº: AB 045163



# AGAT

## Laboratories

2910 12 Street NE  
Calgary, Alberta  
T2E 7P7  
webearth.agatlabs.com

7°C

### Chain of Custody Record

10 SEP 9 11:15

P: 403.735.2005 • F: 403.735.2771

#### Report to:

Company: Clifton Associates

Same as COC#: 045163

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS
488	1916	GW	Sept. 8/15:25		4
489	1913		Sept. 8/15:10		4
489	1913		Sept. 8/15:10		4
489	1914		Sept. 8/15:00		4
489	1914		Sept. 8/15:00		4
489	1912		Sept. 8/14:45		4
489	1912		Sept. 8/14:45		4
489	1905		Sept. 8/11:50		4
490	9905		Sept. 8/11:50		4
490	9905		Sept. 8/11:50		4
491	Trip Blank 3	water	Sept. 8		2

CONTAMINATED/HAZARDOUS (Y/N)	✓
PRESERVED (Y/N)	✓
HOLD FOR 60 DAYS	✓
BTEX/PI	✓
F2	✓
VOCs	✓
PAHs	✓
BTEXs/VP/HP/EPH □ LEPH/HEPH □	
Microtox	
D50 Detailed Soil Salinity (As Received)	
BC Landfill	
AB Class 2 Landfill	
Routine Water Potability	
Water Metals □ Dissolved □ Total □ Hg	
Soil Metals □ HWS-B □ Cr <sup>6</sup> □ Hg	
CCME BTEX/F1-F4	
Detailed Soil Salinity (Saturated Paste)	

REC-017601

Samples Relinquished By (Print Name and Sign): Keven Decker Date/Time: Sept 9/11:15

Samples Relinquished By (Print Name and Sign): Wade Jr Date/Time: 9/15/15

Samples Relinquished By (Print Name and Sign): Wade Jr Date/Time: 9/15/15

Samples Received By (Print Name and Sign): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Pink Copy - Client  
Yellow Copy - AGAT  
White Copy - AGAT

Page 2 of 2

Nº. AB **011017** A

**SAMPLE INTEGRITY RECEIPT FORM**

**AGAT Laboratories**

**RECEIVING BASICS - Shipping**

Company/Consultant: Scars / CCPTN

Courier: DLO Prepaid Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_

Custody Seal Intact: Yes  No  NA

TAT: <24hr 24-48hr 48-72hr  Reg Other \_\_\_\_\_

Cooler Quantity: \_\_\_\_\_

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 7 + 7 = 14 °C 2 (Bottle/Jar) + + = °C

3 (Bottle/Jar) + + = °C 4 (Bottle/Jar) + + = °C

5 (Bottle/Jar) + + = °C 6 (Bottle/Jar) + + = °C

7 (Bottle/Jar) + + = °C 8 (Bottle/Jar) + + = °C

9 (Bottle/Jar) + + = °C 10 (Bottle/Jar) + + = °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: 150017601

Samples Damaged: Yes  No  If YES why? \_\_\_\_\_

No Bubble Wrap Frozen Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes  No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes  No

Inorganic Tests (Please Circle): Mibi, BOD, Nitrate/Nitrite, Turbidity, Microtox, Ortho PO4, Tedlar Bag, Residual Chlorine, Chlorophyll\*, Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry SEP 15/15 1035

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES  NO  Precaution Taken: \_\_\_\_\_

Legal Samples: Yes  No

International Samples: Yes  No

Tape Sealed: Yes  No

Coolant Used: Icepack  Bagged Ice Free Ice Free Water None

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts

PROJECT: CG2430 E15

AGAT WORK ORDER: 15C019821

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 21, 2015

PAGES (INCLUDING COVER): 13

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-15

DATE REPORTED: 2015-09-21

Parameter	Unit	SAMPLE DESCRIPTION:		1901	1902	1904	1933	1957	1958	1984	1985
		G / S	RDL	6977980	6978021	6978034	6978035	6978036	6978037	6978038	6978039
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	0.246	0.0093	<0.0005	<0.0005	0.0064	<0.0005
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0026	<0.0003	<0.0003	0.0047	<0.0003
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0030	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0189	<0.0005	<0.0005	0.0103	<0.0005
C6 - C10 (F1)	mg/L	0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.2	<0.1
C6 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
C10 - C16 (F2)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150	100	100	98	98	100	99	96	96	98
o-Terphenyl (F2)	%	50-150	98	98	96	96	96	97	97	97	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6977980-6978039 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
 C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*



# Certificate of Analysis

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

## Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-15

DATE REPORTED: 2015-09-21

SAMPLE DESCRIPTION:		1933	
SAMPLE TYPE:		Water	
DATE SAMPLED:		9/15/2015	
Parameter	Unit	G / S	RDL
			6978035
Acridine	mg/L	0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	<0.00001
Naphthalene	mg/L	0.00001	<0.00001
Acenaphthylene	mg/L	0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001
Fluorene	mg/L	0.00001	<0.00001
Phenanthrene	mg/L	0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits	
2-Fluorobiphenyl (PAH)	%	50-150	123
p-Terphenyl-d14 (PAH)	%	50-150	129

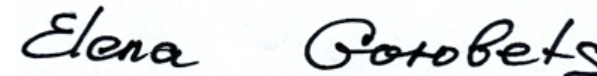
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6978035

Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-15

DATE REPORTED: 2015-09-21

Parameter	Unit	SAMPLE DESCRIPTION:		1901	1902	1904	1933	1957	1958	1984	1985
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015
		G / S	RDL	6977980	6978021	6978034	6978035	6978036	6978037	6978038	6978039
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	<0.0005	0.246	0.0093	<0.0005	<0.0005	<0.0005	0.0064	<0.0005
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	0.0026	<0.0003	<0.0003	<0.0003	0.0047	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-15

DATE REPORTED: 2015-09-21

Parameter	Unit	SAMPLE DESCRIPTION:		1901	1902	1904	1933	1957	1958	1984	1985
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015
		G / S	RDL	6977980	6978021	6978034	6978035	6978036	6978037	6978038	6978039
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	0.0030	<0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L		0.0005	<0.0005	<0.0005	<0.0005	0.0124	<0.0005	<0.0005	0.0077	<0.0005
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	0.0065	<0.0005	<0.0005	0.0026	<0.0005
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L		0.0005	<0.0005	<0.0005	<0.0005	0.0189	<0.0005	<0.0005	0.0103	<0.0005
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%		50-150	98	99	101	99	100	99	97	99

Certified By:

*Elena Gorobets*



## Certificate of Analysis

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PROJECT: CG2430 E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-15

DATE REPORTED: 2015-09-21

SAMPLE DESCRIPTION: Trip Blank 4

SAMPLE TYPE: Water

DATE SAMPLED: 9/15/2015

Parameter	Unit	G / S	RDL	6978041
Chloromethane	mg/L		0.001	<0.001
Vinyl Chloride	mg/L		0.0008	<0.0008
Bromomethane	mg/L		0.001	<0.001
Chloroethane	mg/L		0.001	<0.001
Trichlorofluoromethane	mg/L		0.001	<0.001
Acetone	mg/L		0.01	<0.01
1,1-Dichloroethylene	mg/L		0.001	<0.001
Methylene Chloride	mg/L		0.001	<0.001
Methyl tert-Butyl Ether	mg/L		0.001	<0.001
Methyl Ethyl Ketone	mg/L		0.01	<0.01
trans-1,2-Dichloroethylene	mg/L		0.001	<0.001
1,1-Dichloroethane	mg/L		0.001	<0.001
cis-1,2 Dichloroethylene	mg/L		0.001	<0.001
Chloroform	mg/L		0.001	<0.001
1,2-Dichloroethane	mg/L		0.001	<0.001
1,1,1-Trichloroethane	mg/L		0.001	<0.001
Carbon Tetrachloride	mg/L		0.0005	<0.0005
Benzene	mg/L		0.0005	<0.0005
1,2-Dichloropropane	mg/L		0.001	<0.001
Trichloroethylene	mg/L		0.001	<0.001
Bromodichloromethane	mg/L		0.001	<0.001
trans-1,3-Dichloropropene	mg/L		0.001	<0.001
Methyl Isobutyl Ketone	mg/L		0.01	<0.01
cis-1,3-Dichloropropene	mg/L		0.001	<0.001
1,1,2-Trichloroethane	mg/L		0.001	<0.001
Toluene	mg/L		0.0003	<0.0003
2-Hexanone	mg/L		0.01	<0.01
Dibromochloromethane	mg/L		0.001	<0.001
Ethylene Dibromide	mg/L		0.001	<0.001
Tetrachloroethene	mg/L		0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-15

DATE REPORTED: 2015-09-21

		SAMPLE DESCRIPTION: Trip Blank 4		
		SAMPLE TYPE: Water		
		DATE SAMPLED: 9/15/2015		
Parameter	Unit	G / S	RDL	6978041
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001
Ethylbenzene	mg/L		0.0005	<0.0005
m,p-Xylenes	mg/L		0.0005	<0.0005
Bromoform	mg/L		0.001	<0.001
Styrene	mg/L		0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001
o-Xylene	mg/L		0.0005	<0.0005
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001
Xylenes	mg/L		0.0005	<0.0005
Surrogate	Unit	Acceptable Limits		
Toluene-d8	%	50-150	100	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6977980-6978041 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis															
RPT Date: Sep 21, 2015			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatile Organic Compounds in Water**

Chloromethane	3076	6980268	<0.001	<0.001	NA	< 0.001	82%	60%	140%	78%	60%	140%	98%	60%	140%
Vinyl Chloride	3076	6980268	<0.0008	<0.0008	NA	< 0.0008	70%	60%	140%	95%	60%	140%	71%	60%	140%
Bromomethane	3076	6980268	<0.001	<0.001	NA	< 0.001	88%	60%	140%	76%	60%	140%	81%	60%	140%
Chloroethane	3076	6980268	<0.001	<0.001	NA	< 0.001	86%	60%	140%	83%	60%	140%	85%	60%	140%
Trichlorofluoromethane	3076	6980268	<0.001	<0.001	NA	< 0.001	88%	60%	140%	84%	60%	140%	87%	60%	140%
Acetone	3076	6980268	<0.01	<0.01	NA	< 0.01	113%	60%	140%	102%	60%	140%	105%	60%	140%
1,1-Dichloroethylene	3076	6980268	<0.001	<0.001	NA	< 0.001	94%	60%	140%	88%	60%	140%	91%	60%	140%
Methylene Chloride	3076	6980268	<0.001	<0.001	NA	< 0.001	96%	60%	140%	91%	60%	140%	91%	60%	140%
Methyl tert-Butyl Ether	3076	6980268	<0.001	<0.001	NA	< 0.001	96%	60%	140%	91%	60%	140%	84%	60%	140%
Methyl Ethyl Ketone	3076	6980268	<0.01	<0.01	NA	< 0.01	84%	60%	140%	82%	60%	140%	91%	60%	140%
trans-1,2-Dichloroethylene	3076	6980268	<0.001	<0.001	NA	< 0.001	97%	60%	140%	90%	60%	140%	91%	60%	140%
1,1-Dichloroethane	3076	6980268	<0.001	<0.001	NA	< 0.001	99%	60%	140%	93%	60%	140%	95%	60%	140%
cis-1,2 Dichloroethylene	3076	6980268	0.011	0.011	0.0%	< 0.001	98%	60%	140%	95%	60%	140%	95%	60%	140%
Chloroform	3076	6980268	<0.001	<0.001	NA	< 0.001	96%	60%	140%	92%	60%	140%	94%	60%	140%
1,2-Dichloroethane	3076	6980268	<0.001	<0.001	NA	< 0.001	96%	60%	140%	96%	60%	140%	97%	60%	140%
1,1,1-Trichloroethane	3076	6980268	0.004	0.004	NA	< 0.001	96%	60%	140%	91%	60%	140%	93%	60%	140%
Carbon Tetrachloride	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	97%	60%	140%	89%	60%	140%	92%	60%	140%
Benzene	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	96%	60%	140%	92%	60%	140%	94%	60%	140%
1,2-Dichloropropane	3076	6980268	<0.001	<0.001	NA	< 0.001	93%	60%	140%	93%	60%	140%	94%	60%	140%
Trichloroethylene	3076	6980268	29.8	29.8	0.0%	< 0.001	94%	60%	140%	92%	60%	140%	95%	60%	140%
Bromodichloromethane	3076	6980268	<0.001	<0.001	NA	< 0.001	95%	60%	140%	92%	60%	140%	91%	60%	140%
trans-1,3-Dichloropropene	3076	6980268	<0.001	<0.001	NA	< 0.001	89%	60%	140%	89%	60%	140%	86%	60%	140%
Methyl Isobutyl Ketone	3076	6980268	<0.01	<0.01	NA	< 0.01	73%	60%	140%	73%	60%	140%	89%	60%	140%
cis-1,3-Dichloropropene	3076	6980268	<0.001	<0.001	NA	< 0.001	78%	60%	140%	83%	60%	140%	81%	60%	140%
1,1,2-Trichloroethane	3076	6980268	0.003	0.003	NA	< 0.001	90%	60%	140%	90%	60%	140%	88%	60%	140%
Toluene	3076	6980268	0.0003	<0.0003	NA	< 0.0003	94%	60%	140%	92%	60%	140%	92%	60%	140%
2-Hexanone	3076	6980268	<0.01	<0.01	NA	< 0.01	91%	60%	140%	72%	60%	140%	99%	60%	140%
Dibromochloromethane	3076	6980268	<0.001	<0.001	NA	< 0.001	89%	60%	140%	92%	60%	140%	92%	60%	140%
Ethylene Dibromide	3076	6980268	<0.001	<0.001	NA	< 0.001	83%	60%	140%	84%	60%	140%	82%	60%	140%
Tetrachloroethene	3076	6980268	<0.001	<0.001	NA	< 0.001	110%	60%	140%	103%	60%	140%	103%	60%	140%
1,1,1,2-Tetrachloroethane	3076	6980268	<0.001	<0.001	NA	< 0.001	101%	60%	140%	95%	60%	140%	96%	60%	140%
Chlorobenzene	3076	6980268	<0.001	<0.001	NA	< 0.001	97%	60%	140%	96%	60%	140%	95%	60%	140%
Ethylbenzene	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	95%	60%	140%	92%	60%	140%	92%	60%	140%
m,p-Xylenes	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	95%	60%	140%	93%	60%	140%	93%	60%	140%
Bromoform	3076	6980268	<0.001	<0.001	NA	< 0.001	90%	60%	140%	91%	60%	140%	87%	60%	140%
Styrene	3076	6980268	<0.001	<0.001	NA	< 0.001	90%	60%	140%	94%	60%	140%	93%	60%	140%
1,1,2,2-Tetrachloroethane	3076	6980268	<0.001	<0.001	NA	< 0.001	124%	60%	140%	125%	60%	140%	117%	60%	140%
o-Xylene	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	96%	60%	140%	93%	60%	140%	95%	60%	140%
1,3-Dichlorobenzene	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	92%	60%	140%	96%	60%	140%	94%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E15  
 SAMPLING SITE:

AGAT WORK ORDER: 15C019821  
 ATTENTION TO: Accounts  
 SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 21, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	117%	60%	140%	105%	60%	140%	106%	60%	140%	
1,2-Dichlorobenzene	3076	6980268	<0.0005	<0.0005	NA	< 0.0005	101%	60%	140%	102%	60%	140%	105%	60%	140%	
1,2,4-Trichlorobenzene	3076	6980268	<0.001	<0.001	NA	< 0.001	109%	60%	140%	116%	60%	140%	110%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	2161	6983538	<0.0005	<0.0005	NA	< 0.0005	96%	80%	120%	95%	80%	120%	98%	70%	130%
Toluene	2161	6983538	<0.0003	<0.0003	NA	< 0.0003	98%	80%	120%	96%	80%	120%	97%	70%	130%
Ethylbenzene	2161	6983538	<0.0005	<0.0005	NA	< 0.0005	99%	80%	120%	95%	80%	120%	98%	70%	130%
Xylenes	2161	6983538	<0.0005	<0.0005	NA	< 0.0005	100%	80%	120%	96%	80%	120%	99%	70%	130%
C6 - C10 (F1)	2161	6983538	<0.1	<0.1	NA	< 0.1	95%	80%	120%	105%	80%	120%	94%	70%	130%
C10 - C16 (F2)	385	6983542	<0.1	<0.1	NA	< 0.1	96%	80%	120%	99%	80%	120%	99%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	146	6983575	< 0.00005	< 0.00005	NA	< 0.00005	73%	70%	130%	82%	70%	130%	85%	70%	130%
Quinoline	146	6983575	< 0.0001	< 0.0001	NA	< 0.0001	94%	70%	130%	81%	70%	130%	87%	70%	130%
2-Methylnaphthalene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	86%	70%	130%	82%	70%	130%	74%	70%	130%
Naphthalene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	105%	70%	130%	92%	70%	130%	86%	70%	130%
Acenaphthylene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	86%	70%	130%	86%	70%	130%	82%	70%	130%
Acenaphthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	106%	70%	130%	102%	70%	130%	100%	70%	130%
Fluorene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	97%	70%	130%	96%	70%	130%	92%	70%	130%
Phenanthrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	89%	70%	130%	90%	70%	130%	90%	70%	130%
Anthracene	146	6983575	< 0.000010	< 0.000010	NA	< 0.000010	77%	70%	130%	83%	70%	130%	87%	70%	130%
Fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	82%	70%	130%	82%	70%	130%	81%	70%	130%
Pyrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	89%	70%	130%	107%	70%	130%	103%	70%	130%
Benzo[a]anthracene	146	6983575	< 0.000010	< 0.000010	NA	< 0.000010	120%	70%	130%	115%	70%	130%	84%	70%	130%
Chrysene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	104%	70%	130%	81%	70%	130%	109%	70%	130%
Benzo[b+j]fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	76%	70%	130%	115%	70%	130%	104%	70%	130%
Benzo[k]fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	109%	70%	130%	88%	70%	130%	82%	70%	130%
Benzo[a]pyrene	146	6983575	< 0.000007	< 0.000007	NA	< 0.000007	79%	70%	130%	89%	70%	130%	81%	70%	130%
Indeno[1,2,3-cd]pyrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	81%	70%	130%	106%	70%	130%	92%	70%	130%
Benzo[ghi]perylene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	76%	70%	130%	77%	70%	130%	77%	70%	130%
Dibenzo[ah]anthracene	146	6983575	< 0.000008	< 0.000008	NA	< 0.000008	84%	70%	130%	85%	70%	130%	77%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

  
 Certified By:

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS



## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C019821

PROJECT: CG2430 E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webearth.agatlabs.com

**Laboratory Use Only**

Arrival Temperature: 7°C

AGAT Job Number: 15C019821

Date and Time: 15 SEP 15 10:39

**Chain of Custody Record**      **Emergency Support Services Hotline 1-855-AGAT 245 (1-855-242-8245)**

**Report Information**

Company: Clifton Associates Ltd.  
 Contact: Daniel Budai  
 Address: 2222-30th Ave NE  
Calgary AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 234-9033  
 LSD: \_\_\_\_\_  
 Client Project #: CG2430 E15

**Report Information**

1. Name: Daniel Budai  
 Email: daniel-budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark-lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen.dabadie@clifton.ca

**Report Format**

Single Sample per Page

Multiple Samples per Page

**Turnaround Time Required (TAT)**

Regular TAT  5 to 7 business days

Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

Date Required: \_\_\_\_\_

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

**Invoice To**      Same Yes  No

Company: Sears Canada Inc.  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2C3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/AFE#: CG2430 E15

**Requirements** (Selection may impact detection limits)

CCME       AB Tier 1       BC CSR

Agricultural       Agricultural       AW  
 Industrial       Industrial       IW  
 Residential/Park       Residential/Park       LW  
 Commercial       Commercial       DW  
 Drinking Water       Natural Area  
 FWAL       AB Surface Water

Other  
 D50 (Drilling)       SPIGEC

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEXS/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/FI	FA	PAHs	VOCs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) "potentially"
5											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
4											<	<	<	<		<	<
1											<	<	<	<		<	<
3											<	<	<	<		<	<

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT
6977980	1901	GW	Sept. 15 / 14:00	
8021	1902		Sept. 15 / 13:05	
34	1904		Sept. 15 / 12:40	
35	1933		Sept. 15 / 14:10	
36	1957		Sept. 15 / 13:15	
37	1958		Sept. 15 / 13:45	
38	1984		Sept. 15 / 12:25	
39	1985		Sept. 15 / 12:01	
35	1933		Sept. 15 / 14:10	
41	Trip Blank 4	water	Sept. 15	

Samples Relinquished By (Print Name and Sign): <u>Kelsey Deepker</u>	Date/Time: <u>Sept. 15 6:43pm</u>	Samples Received By (Print Name and Sign): <u>[Signature]</u>	Date/Time: <u>Sept 15/15</u>	Pink Copy - Client	Page <u>1</u> of <u>1</u>
Samples Relinquished By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: _____	Yellow Copy - AGAT	Nº: AB <b>045651</b>
Samples Relinquished By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: <u>9/18/15</u>	White Copy - AGAT	



# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

**RECEIVING BASICS - Shipping**

Company/Consultant: Clifton/Sears

Courier: D/O Prepaid Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_

Custody Seal Intact: Yes No NA

TAT: <24hr 24-48hr 48-72hr Reg Other \_\_\_\_\_

Cooler Quantity: 1

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes No

Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity , Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* , Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry Sept 22/15

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES NO Use PPE Precaution Taken: \_\_\_\_\_

Legal Samples: Yes No

International Samples: Yes No

Tape Sealed: Yes No

Coolant Used: Icepack Bagged Ice Free Ice Free Water None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 7+7+7=7 °C 2(Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

3 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 4 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

5 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 6 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

7 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 8 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

9 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 10 (Bottle/Jar)\_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: 15 C019821

Samples Damaged: Yes No If YES why?

No Bubble Wrap Frozen Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accouts Payable

PROJECT: CG2430 E15

AGAT WORK ORDER: 15C020379

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 22, 2015

PAGES (INCLUDING COVER): 16

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

# Certificate of Analysis

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		1934	1102	1966	1906	1935	9967	1967	1910
		G / S	RDL	6983559	6983560	6983561	6983562	6983563	6983564	6983565	6983566
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	2.01	<0.0005	0.224	0.225	0.118
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0004	<0.0003	0.0195	0.0191	<0.0003
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.276	0.270	<0.0005
Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0085	0.0080	0.0009
C6 - C10 (F1)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	2.0	<0.1	2.8	2.8	0.1
C6 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2	2.3	<0.1
C10 - C16 (F2)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.3	<0.1
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150	97	97	97	94	100	98	98	98	97
o-Terphenyl (F2)	%	50-150	99	100	98	99	99	98	99	100	100
		SAMPLE DESCRIPTION:		9971	1971	1974					
		SAMPLE TYPE:		Water	Water	Water					
		DATE SAMPLED:		9/16/2015	9/16/2015	9/16/2015					
Parameter	Unit	G / S	RDL	6983567	6983568	6983569					
Benzene	mg/L	0.0005	0.0794	0.0795	0.0098						
Toluene	mg/L	0.0003	0.0045	0.0047	0.0016						
Ethylbenzene	mg/L	0.0005	0.469	0.463	0.0034						
Xylenes	mg/L	0.0005	0.0088	0.0086	0.0032						
C6 - C10 (F1)	mg/L	0.1	2.0	2.0	0.4						
C6 - C10 (F1 minus BTEX)	mg/L	0.1	1.4	1.4	0.4						
C10 - C16 (F2)	mg/L	0.1	0.4	0.3	<0.1						
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150	96	96	95						
o-Terphenyl (F2)	%	50-150	100	98	98						

Certified By:

*Elena Gorobets*



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6983559-6983569 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 -C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naphth ) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		1934	1966	1906	1935	1967	1910	9971	1971
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
		G / S	RDL	6983559	6983561	6983562	6983563	6983565	6983566	6983567	6983568
Acridine	mg/L		0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Quinoline	mg/L		0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00005	<0.00001	0.00007	0.00008
Naphthalene	mg/L		0.00001	<0.00001	<0.00001	0.00001	<0.00001	0.00082	<0.00001	0.00136	0.00157
Acenaphthylene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/L		0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L		0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Chrysene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L		0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L		0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L		0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L		0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits									
2-Fluorobiphenyl (PAH)	%	50-150		112	112	107	104	122	124	97	109
p-Terphenyl-d14 (PAH)	%	50-150		127	120	120	108	125	116	106	111

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

		SAMPLE DESCRIPTION: 1974	
		SAMPLE TYPE: Water	
		DATE SAMPLED: 9/16/2015	
Parameter	Unit	G / S	RDL
			6983569
Acridine	mg/L	0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	<0.00001
Naphthalene	mg/L	0.00001	0.00002
Acenaphthylene	mg/L	0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001
Fluorene	mg/L	0.00001	<0.00001
Phenanthrene	mg/L	0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits	
2-Fluorobiphenyl (PAH)	%	50-150	117
p-Terphenyl-d14 (PAH)	%	50-150	129

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6983559-6983569 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:

*Elena Gorobets*





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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		Trip Blank	1934	1102	1966	1906	1935	9967	1967
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
		G / S	RDL	6983558	6983559	6983560	6983561	6983562	6983563	6983564	6983565
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.042	<0.001	0.034	0.035
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	2.01	<0.0005	0.224	0.225
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0004	<0.0003	0.0195	0.0191
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

2910 12TH STREET NE  
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CANADA T2E 7P7  
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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		Trip Blank	1934	1102	1966	1906	1935	9967	1967	
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
		G / S	RDL	6983558	6983559	6983560	6983561	6983562	6983563	6983564	6983565	
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.276	0.270	
m,p-Xylenes	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0067	0.0062	
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
o-Xylene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0018	0.0018	
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylenes	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0085	0.0080	
Surrogate	Unit	Acceptable Limits										
Toluene-d8	%		50-150	99	95	99	100	101	98	104	103	

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		1910	9971	1971	1974
		G / S	RDL	6983566	6983567	6983568	6983569
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	0.032	0.133	0.142	0.081	
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	0.118	0.0794	0.0795	0.0098	
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	0.0045	0.0047	0.0016	
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*

# Certificate of Analysis

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

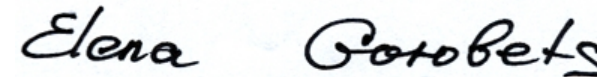
Parameter	Unit	SAMPLE DESCRIPTION:		1910	9971	1971	1974
		G / S	RDL	6983566	6983567	6983568	6983569
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L		0.0005	<0.0005	0.469	0.463	0.0034
m,p-Xylenes	mg/L		0.0005	0.0009	0.0076	0.0074	0.0027
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L		0.0005	<0.0005	0.0012	0.0012	0.0005
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L		0.0005	0.0009	0.0088	0.0086	0.0032
Surrogate	Unit	Acceptable Limits					
Toluene-d8	%		50-150	99	101	100	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6983558-6983569 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.

Xylenes is a calculated parameter. The calculated value is the sum of m&amp;p-Xylenes + o-Xylene.

Certified By:



## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis															
RPT Date: Sep 22, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatle Organic Compounds in Water**

Chloromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	105%	60%	140%	105%	60%	140%	85%	60%	140%
Vinyl Chloride	3077	6983571	<0.0008	<0.0008	NA	< 0.0008	85%	60%	140%	82%	60%	140%	83%	60%	140%
Bromomethane	3077	6983571	<0.001	<0.001	NA	< 0.001	80%	60%	140%	71%	60%	140%	71%	60%	140%
Chloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	89%	60%	140%	86%	60%	140%	89%	60%	140%
Trichlorofluoromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	97%	60%	140%	94%	60%	140%	94%	60%	140%
Acetone	3077	6983571	<0.01	<0.01	NA	< 0.01	99%	60%	140%	108%	60%	140%	111%	60%	140%
1,1-Dichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	97%	60%	140%	96%	60%	140%	96%	60%	140%
Methylene Chloride	3077	6983571	<0.001	<0.001	NA	< 0.001	84%	60%	140%	82%	60%	140%	84%	60%	140%
Methyl tert-Butyl Ether	3077	6983571	<0.001	<0.001	NA	< 0.001	83%	60%	140%	84%	60%	140%	81%	60%	140%
Methyl Ethyl Ketone	3077	6983571	<0.01	<0.01	NA	< 0.01	74%	60%	140%	84%	60%	140%	85%	60%	140%
trans-1,2-Dichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	96%	60%	140%	96%	60%	140%	96%	60%	140%
1,1-Dichloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	92%	60%	140%	90%	60%	140%	92%	60%	140%
cis-1,2 Dichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	94%	60%	140%	93%	60%	140%	95%	60%	140%
Chloroform	3077	6983571	<0.001	<0.001	NA	< 0.001	86%	60%	140%	86%	60%	140%	86%	60%	140%
1,2-Dichloroethane	3077	6983571	0.035	0.033	5.9%	< 0.001	98%	60%	140%	97%	60%	140%	101%	60%	140%
1,1,1-Trichloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	90%	60%	140%	88%	60%	140%	88%	60%	140%
Carbon Tetrachloride	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	89%	60%	140%	89%	60%	140%	89%	60%	140%
Benzene	3077	6983571	0.493	0.494	0.2%	< 0.0005	101%	60%	140%	100%	60%	140%	98%	60%	140%
1,2-Dichloropropane	3077	6983571	<0.001	<0.001	NA	< 0.001	101%	60%	140%	100%	60%	140%	98%	60%	140%
Trichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	84%	60%	140%	86%	60%	140%	88%	60%	140%
Bromodichloromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	99%	60%	140%	100%	60%	140%	98%	60%	140%
trans-1,3-Dichloropropene	3077	6983571	<0.001	<0.001	NA	< 0.001	89%	60%	140%	91%	60%	140%	90%	60%	140%
Methyl Isobutyl Ketone	3077	6983571	<0.01	<0.01	NA	< 0.01	117%	60%	140%	73%	60%	140%	74%	60%	140%
cis-1,3-Dichloropropene	3077	6983571	<0.001	<0.001	NA	< 0.001	84%	60%	140%	88%	60%	140%	87%	60%	140%
1,1,2-Trichloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	87%	60%	140%	89%	60%	140%	89%	60%	140%
Toluene	3077	6983571	<0.0003	<0.0003	NA	< 0.0003	97%	60%	140%	97%	60%	140%	95%	60%	140%
2-Hexanone	3077	6983571	<0.01	<0.01	NA	< 0.01	80%	60%	140%	72%	60%	140%	76%	60%	140%
Dibromochloromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	89%	60%	140%	93%	60%	140%	92%	60%	140%
Ethylene Dibromide	3077	6983571	<0.001	<0.001	NA	< 0.001	82%	60%	140%	87%	60%	140%	84%	60%	140%
Tetrachloroethene	3077	6983571	<0.001	<0.001	NA	< 0.001	102%	60%	140%	101%	60%	140%	99%	60%	140%
1,1,1,2-Tetrachloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	101%	60%	140%	101%	60%	140%	98%	60%	140%
Chlorobenzene	3077	6983571	<0.001	<0.001	NA	< 0.001	94%	60%	140%	95%	60%	140%	93%	60%	140%
Ethylbenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	95%	60%	140%	97%	60%	140%	94%	60%	140%
m,p-Xylenes	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	99%	60%	140%	98%	60%	140%	96%	60%	140%
Bromoform	3077	6983571	<0.001	<0.001	NA	< 0.001	86%	60%	140%	87%	60%	140%	86%	60%	140%
Styrene	3077	6983571	<0.001	<0.001	NA	< 0.001	88%	60%	140%	95%	60%	140%	95%	60%	140%
1,1,2,2-Tetrachloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	125%	60%	140%	130%	60%	140%	125%	60%	140%
o-Xylene	3077	6983571	0.0009	0.0008	NA	< 0.0005	99%	60%	140%	98%	60%	140%	95%	60%	140%
1,3-Dichlorobenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	81%	60%	140%	93%	60%	140%	90%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 22, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	109%	60%	140%	104%	60%	140%	102%	60%	140%	
1,2-Dichlorobenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	90%	60%	140%	94%	60%	140%	95%	60%	140%	
1,2,4-Trichlorobenzene	3077	6983571	<0.001	<0.001	NA	< 0.001	105%	60%	140%	100%	60%	140%	106%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	2164	6983560	<0.0005	<0.0005	NA	< 0.0005	100%	80%	120%	92%	80%	120%	97%	70%	130%
Toluene	2164	6983560	<0.0003	<0.0003	NA	< 0.0003	95%	80%	120%	91%	80%	120%	95%	70%	130%
Ethylbenzene	2164	6983560	<0.0005	<0.0005	NA	< 0.0005	92%	80%	120%	89%	80%	120%	95%	70%	130%
Xylenes	2164	6983560	<0.0005	<0.0005	NA	< 0.0005	93%	80%	120%	92%	80%	120%	96%	70%	130%
C6 - C10 (F1)	2164	6983560	<0.1	<0.1	NA	< 0.1	83%	80%	120%	91%	80%	120%	93%	70%	130%
C10 - C16 (F2)	386	6983565	0.3	0.3	NA	< 0.1	96%	80%	120%	110%	80%	120%	90%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	146	6983575	< 0.00005	< 0.00005	NA	< 0.00005	73%	70%	130%	82%	70%	130%	85%	70%	130%
Quinoline	146	6983575	< 0.0001	< 0.0001	NA	< 0.0001	94%	70%	130%	81%	70%	130%	87%	70%	130%
2-Methylnaphthalene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	86%	70%	130%	82%	70%	130%	74%	70%	130%
Naphthalene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	105%	70%	130%	92%	70%	130%	86%	70%	130%
Acenaphthylene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	86%	70%	130%	86%	70%	130%	82%	70%	130%
Acenaphthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	106%	70%	130%	102%	70%	130%	100%	70%	130%
Fluorene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	97%	70%	130%	96%	70%	130%	92%	70%	130%
Phenanthrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	89%	70%	130%	90%	70%	130%	90%	70%	130%
Anthracene	146	6983575	< 0.000010	< 0.000010	NA	< 0.000010	77%	70%	130%	83%	70%	130%	87%	70%	130%
Fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	82%	70%	130%	82%	70%	130%	81%	70%	130%
Pyrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	89%	70%	130%	107%	70%	130%	103%	70%	130%
Benzo[a]anthracene	146	6983575	< 0.000010	< 0.000010	NA	< 0.000010	120%	70%	130%	115%	70%	130%	84%	70%	130%
Chrysene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	104%	70%	130%	81%	70%	130%	109%	70%	130%
Benzo[b+j]fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	76%	70%	130%	115%	70%	130%	104%	70%	130%
Benzo[k]fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	109%	70%	130%	88%	70%	130%	82%	70%	130%
Benzo[a]pyrene	146	6983575	< 0.000007	< 0.000007	NA	< 0.000007	79%	70%	130%	89%	70%	130%	81%	70%	130%
Indeno[1,2,3-cd]pyrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	81%	70%	130%	106%	70%	130%	92%	70%	130%
Benzo[ghi]perylene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	76%	70%	130%	77%	70%	130%	77%	70%	130%
Dibenzo[ah]anthracene	146	6983575	< 0.000008	< 0.000008	NA	< 0.000008	84%	70%	130%	85%	70%	130%	77%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By: *Elena Gorobets*

## Method Summary

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430 E15  
 SAMPLING SITE:

AGAT WORK ORDER: 15C020379  
 ATTENTION TO: Accouts Payable  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020379

PROJECT: CG2430 E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS





# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webearth.agatlabs.com

## Laboratory Use Only

Arrival Temperature: 4°C  
 AGAT Job Number: 15C020379  
 Date and Time: 15 SEP-16 18:00

### Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

#### Report Information

Company: Clifton Associates Ltd.  
 Contact: Daniel Budai  
 Address: 2222 - 30th Ave NE  
Calgary, AB T2E 7K9  
 Phone: (403) 243-2556 Fax: (403) 234-9033  
 LSD: \_\_\_\_\_  
 Client Project #: CG2430 E15

#### Report Information

1. Name: Daniel Budai  
 Email: daniel-budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark-lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen-dabadie@clifton.ca

#### Report Format

Single Sample per Page  
 Multiple Samples per Page

#### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

Date Required: \_\_\_\_\_

#### Invoice To

Same Yes  No

Company: Sears Canada Inc  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2C3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/AFE#: CG2430 E15

#### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  SPIGEC  
 D50 (Drilling)  SPIGEC

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/FI	VOCS	FA	PAHs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) <sup>potential</sup>
<u>6983518</u>	<u>Trip Blank's</u>	<u>Water</u>	<u>Sept. 16</u>		<u>4</u>																	
<u>559</u>	<u>1934</u>	<u>BW</u>	<u>Sept. 16/8:34</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>560</u>	<u>1934</u>		<u>Sept. 16/8:34</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>561</u>	<u>1102</u>		<u>Sept. 16/9:15</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>562</u>	<u>19160</u>		<u>Sept. 16/9:00</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>563</u>	<u>19160</u>		<u>Sept. 16/9:00</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>562</u>	<u>19160</u>		<u>Sept. 16/10:30</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>563</u>	<u>1906</u>		<u>Sept. 16/10:50</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>563</u>	<u>1935</u>		<u>Sept. 16/8:20</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>564</u>	<u>1935</u>		<u>Sept. 16/8:20</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>
<u>564</u>	<u>9967</u>		<u>Sept. 16/11:10</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>

Samples Relinquished By (Print Name and Sign): <u>Kelsey Deeper Kelsey Deeper</u>	Date/Time: <u>Sept. 16/18:00</u>	Samples Received By (Print Name and Sign): <u>Lukua Khungyal Khungyal</u>	Date/Time: <u>16-Sept-2015</u>	Pink Copy - Client	Page <u>1</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time: <u>18:09</u>	Yellow Copy - AGAT	Nº: AB <b>045652</b>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	White Copy - AGAT	



15 SEP-16 18:09

4°C

15C020379

## Chain of Custody Record

P: 403.735.2005 • F: 403.735.2771

### Report to:

Company: Clifton Associates

Same as COC#: 045652

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/FI	FA	VOCs	PAHs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
6983565	1967	GW	Sept. 16/11:10		4											✓	✓	✓			✓	✓
566	1910		Sept. 16/11:10		4											✓	✓	✓			✓	✓
567	1910		Sept. 16/10:25		4											✓	✓	✓			✓	✓
568	1971		Sept. 16/10:35		4											✓	✓	✓			✓	✓
569	1971		Sept. 16/10:35		4											✓	✓	✓			✓	✓
	1974		Sept. 16/10:35		4											✓	✓	✓			✓	✓
	1974		Sept. 16/10:15		4											✓	✓	✓			✓	✓
	1974		Sept. 16/10:15		4											✓	✓	✓			✓	✓

Samples Relinquished By (Print Name and Sign): <u>Kekey Deepter Kekey Deepter</u>	Date/Time: <u>Sept 16/18:00</u>	Samples Received By (Print Name and Sign): <u>Rubina Amrogi Shingel</u>	Date/Time: <u>16-Sept-2010 @ 18:09</u>	Pink Copy - Client	Page <u>2</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	Yellow Copy - AGAT	Nº: AB <b>011080</b> A
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	White Copy - AGAT	

# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

### RECEIVING BASICS - Shipping

Company/Consultant: Clifton  
 Courier: D/O Prepaid Collect  
 Waybill# \_\_\_\_\_  
 Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_  
 Custody Seal Intact: Yes  No NA  
 TAT: <24hr 24-48hr 48-72hr  Reg Other \_\_\_\_\_  
 Cooler Quantity: 1

### TIME SENSITIVE ISSUES - Shipping

ALREADY EXCEEDED HOLD TIME? Yes No  
 Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity ,  
 Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* ,  
 Chloroamines\*  
 Earliest Expiry: \_\_\_\_\_  
 Hydrocarbons: Earliest Expiry 28-Sept-2015

### SAMPLE INTEGRITY - Shipping

Hazardous Samples: YES  NO Precaution Taken: \_\_\_\_\_  
 Legal Samples: Yes  No  
 International Samples: Yes  No  
 Tape Sealed: Yes  No  
 Coolant Used: Icepack  Bagged Ice  Free Ice Free Water None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received  
**FROZEN (Please Circle if samples received Frozen)**  
 1 (Bottle/Jar) 4 + 4 + 4 = 4 °C    2 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 3 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    4 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 5 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    6 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 7 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    8 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 9 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    10 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 (If more than 10 coolers are received use another sheet of paper and attach)

### LOGISTICS USE ONLY

Workorder No: 15C020379  
 Samples Damaged: Yes  No If YES why?  
 No Bubble Wrap Frozen Courier  
 Other: \_\_\_\_\_  
 Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No  
 Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 CPM Initial \_\_\_\_\_  
 General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts Payable

PROJECT: CG2430 E15

AGAT WORK ORDER: 15C020380

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 22, 2015

PAGES (INCLUDING COVER): 12

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		1911	1907	9907	1924	1976	1908
		G / S	RDL	6983571	6983572	6983573	6983574	6983575	6983576
Benzene	mg/L	0.0005	0.509	0.0742	0.0742	3.90	<0.0005	0.0107	
Toluene	mg/L	0.0003	<0.0003	0.248	0.247	0.0243	<0.0003	0.0007	
Ethylbenzene	mg/L	0.0005	<0.0005	0.0105	0.0099	0.0005	<0.0005	<0.0005	
Xylenes	mg/L	0.0005	<0.0005	0.157	0.158	0.373	<0.0005	0.0006	
C6 - C10 (F1)	mg/L	0.1	0.5	0.9	0.9	4.3	<0.1	<0.1	
C6 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	0.4	0.4	<0.1	<0.1	<0.1	
C10 - C16 (F2)	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	
Surrogate	Unit	Acceptable Limits							
Toluene-d8 (BTEX)	%	50-150	94	100	99	98	97	98	
o-Terphenyl (F2)	%	50-150	99	101	99	99	100	100	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6983571-6983576 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
 C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*

# Certificate of Analysis

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

## Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

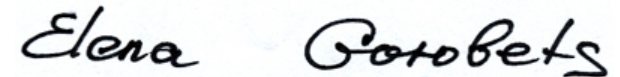
Parameter	Unit	SAMPLE DESCRIPTION:						
		G / S	RDL	1911	1907	1924	1976	1908
				Water	Water	Water	Water	Water
				9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
				6983571	6983572	6983574	6983575	6983576
Acridine	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	<0.00001	0.00017	<0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	mg/L	0.00001	0.00002	0.00250	0.00208	<0.00001	<0.00001	<0.00001
Acenaphthylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits						
2-Fluorobiphenyl (PAH)	%	50-150	106	108	104	105	102	
p-Terphenyl-d14 (PAH)	%	50-150	109	122	130	111	117	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6983571-6983576 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		Trip Blank	1911	1907	9907	1924	1976	1908
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	G / S	RDL	6983570	6983571	6983572	6983573	6983574	6983575	6983576	
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	0.035	<0.001	<0.001	<0.001	0.189	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	0.509	0.0742	0.0742	3.90	<0.0005	0.0107	
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	<0.0003	0.248	0.247	0.0243	<0.0003	0.0007	
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-16

DATE REPORTED: 2015-09-22

Parameter	Unit	SAMPLE DESCRIPTION:		Trip Blank	1911	1907	9907	1924	1976	1908
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	0.0105	0.0099	0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L	0.0005	<0.0005	<0.0005	0.139	0.138	0.0689	<0.0005	<0.0005	0.0006
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	<0.0005	<0.0005	0.0180	0.0200	0.304	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	<0.0005	<0.0005	0.157	0.158	0.373	<0.0005	<0.0005	0.0006
Surrogate	Unit	Acceptable Limits								
Toluene-d8	%	50-150		101	101	100	100	103	98	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6983570-6983576 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.

Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*



## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis															
RPT Date: Sep 22, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatile Organic Compounds in Water**

Chloromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	105%	60%	140%	105%	60%	140%	85%	60%	140%
Vinyl Chloride	3077	6983571	<0.0008	<0.0008	NA	< 0.0008	85%	60%	140%	82%	60%	140%	83%	60%	140%
Bromomethane	3077	6983571	<0.001	<0.001	NA	< 0.001	80%	60%	140%	71%	60%	140%	71%	60%	140%
Chloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	89%	60%	140%	86%	60%	140%	89%	60%	140%
Trichlorofluoromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	97%	60%	140%	94%	60%	140%	94%	60%	140%
Acetone	3077	6983571	<0.01	<0.01	NA	< 0.01	99%	60%	140%	108%	60%	140%	111%	60%	140%
1,1-Dichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	97%	60%	140%	96%	60%	140%	96%	60%	140%
Methylene Chloride	3077	6983571	<0.001	<0.001	NA	< 0.001	84%	60%	140%	82%	60%	140%	84%	60%	140%
Methyl tert-Butyl Ether	3077	6983571	<0.001	<0.001	NA	< 0.001	83%	60%	140%	84%	60%	140%	81%	60%	140%
Methyl Ethyl Ketone	3077	6983571	<0.01	<0.01	NA	< 0.01	74%	60%	140%	84%	60%	140%	85%	60%	140%
trans-1,2-Dichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	96%	60%	140%	96%	60%	140%	96%	60%	140%
1,1-Dichloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	92%	60%	140%	90%	60%	140%	92%	60%	140%
cis-1,2 Dichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	94%	60%	140%	93%	60%	140%	95%	60%	140%
Chloroform	3077	6983571	<0.001	<0.001	NA	< 0.001	86%	60%	140%	86%	60%	140%	86%	60%	140%
1,2-Dichloroethane	3077	6983571	0.035	0.033	5.9%	< 0.001	98%	60%	140%	97%	60%	140%	101%	60%	140%
1,1,1-Trichloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	90%	60%	140%	88%	60%	140%	88%	60%	140%
Carbon Tetrachloride	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	89%	60%	140%	89%	60%	140%	89%	60%	140%
Benzene	3077	6983571	0.509	0.494	3.0%	< 0.0005	101%	60%	140%	100%	60%	140%	98%	60%	140%
1,2-Dichloropropane	3077	6983571	<0.001	<0.001	NA	< 0.001	101%	60%	140%	100%	60%	140%	98%	60%	140%
Trichloroethylene	3077	6983571	<0.001	<0.001	NA	< 0.001	84%	60%	140%	86%	60%	140%	88%	60%	140%
Bromodichloromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	99%	60%	140%	100%	60%	140%	98%	60%	140%
trans-1,3-Dichloropropene	3077	6983571	<0.001	<0.001	NA	< 0.001	89%	60%	140%	91%	60%	140%	90%	60%	140%
Methyl Isobutyl Ketone	3077	6983571	<0.01	<0.01	NA	< 0.01	117%	60%	140%	73%	60%	140%	74%	60%	140%
cis-1,3-Dichloropropene	3077	6983571	<0.001	<0.001	NA	< 0.001	84%	60%	140%	88%	60%	140%	87%	60%	140%
1,1,2-Trichloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	87%	60%	140%	89%	60%	140%	89%	60%	140%
Toluene	3077	6983571	<0.0003	<0.0003	NA	< 0.0003	97%	60%	140%	97%	60%	140%	95%	60%	140%
2-Hexanone	3077	6983571	<0.01	<0.01	NA	< 0.01	80%	60%	140%	72%	60%	140%	76%	60%	140%
Dibromochloromethane	3077	6983571	<0.001	<0.001	NA	< 0.001	89%	60%	140%	93%	60%	140%	92%	60%	140%
Ethylene Dibromide	3077	6983571	<0.001	<0.001	NA	< 0.001	82%	60%	140%	87%	60%	140%	84%	60%	140%
Tetrachloroethene	3077	6983571	<0.001	<0.001	NA	< 0.001	102%	60%	140%	101%	60%	140%	99%	60%	140%
1,1,1,2-Tetrachloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	101%	60%	140%	101%	60%	140%	98%	60%	140%
Chlorobenzene	3077	6983571	<0.001	<0.001	NA	< 0.001	94%	60%	140%	95%	60%	140%	93%	60%	140%
Ethylbenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	95%	60%	140%	97%	60%	140%	94%	60%	140%
m,p-Xylenes	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	99%	60%	140%	98%	60%	140%	96%	60%	140%
Bromoform	3077	6983571	<0.001	<0.001	NA	< 0.001	86%	60%	140%	87%	60%	140%	86%	60%	140%
Styrene	3077	6983571	<0.001	<0.001	NA	< 0.001	88%	60%	140%	95%	60%	140%	95%	60%	140%
1,1,2,2-Tetrachloroethane	3077	6983571	<0.001	<0.001	NA	< 0.001	125%	60%	140%	130%	60%	140%	125%	60%	140%
o-Xylene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	99%	60%	140%	98%	60%	140%	95%	60%	140%
1,3-Dichlorobenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	81%	60%	140%	93%	60%	140%	90%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 22, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	109%	60%	140%	104%	60%	140%	102%	60%	140%	
1,2-Dichlorobenzene	3077	6983571	<0.0005	<0.0005	NA	< 0.0005	90%	60%	140%	94%	60%	140%	95%	60%	140%	
1,2,4-Trichlorobenzene	3077	6983571	<0.001	<0.001	NA	< 0.001	105%	60%	140%	100%	60%	140%	106%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	2162	6982164	<0.0005	<0.0005	NA	< 0.0005	95%	80%	120%	94%	80%	120%	94%	70%	130%
Toluene	2162	6982164	<0.0003	<0.0003	NA	< 0.0003	98%	80%	120%	94%	80%	120%	94%	70%	130%
Ethylbenzene	2162	6982164	<0.0005	<0.0005	NA	< 0.0005	98%	80%	120%	94%	80%	120%	92%	70%	130%
Xylenes	2162	6982164	<0.0005	<0.0005	NA	< 0.0005	98%	80%	120%	96%	80%	120%	95%	70%	130%
C6 - C10 (F1)	2162	6982164	<0.1	<0.1	NA	< 0.1	82%	80%	120%	104%	80%	120%	94%	70%	130%
C10 - C16 (F2)	386	6983565	0.3	0.3	NA	< 0.1	96%	80%	120%	110%	80%	120%	90%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	146	6983575	< 0.00005	< 0.00005	NA	< 0.00005	73%	70%	130%	82%	70%	130%	85%	70%	130%
Quinoline	146	6983575	< 0.0001	< 0.0001	NA	< 0.0001	94%	70%	130%	81%	70%	130%	87%	70%	130%
2-Methylnaphthalene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	86%	70%	130%	82%	70%	130%	74%	70%	130%
Naphthalene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	105%	70%	130%	92%	70%	130%	86%	70%	130%
Acenaphthylene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	86%	70%	130%	86%	70%	130%	82%	70%	130%
Acenaphthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	106%	70%	130%	102%	70%	130%	100%	70%	130%
Fluorene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	97%	70%	130%	96%	70%	130%	92%	70%	130%
Phenanthrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	89%	70%	130%	90%	70%	130%	90%	70%	130%
Anthracene	146	6983575	< 0.000010	< 0.000010	NA	< 0.000010	77%	70%	130%	83%	70%	130%	87%	70%	130%
Fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	82%	70%	130%	82%	70%	130%	81%	70%	130%
Pyrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	89%	70%	130%	107%	70%	130%	103%	70%	130%
Benzo[a]anthracene	146	6983575	< 0.000010	< 0.000010	NA	< 0.000010	120%	70%	130%	115%	70%	130%	84%	70%	130%
Chrysene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	104%	70%	130%	81%	70%	130%	109%	70%	130%
Benzo[b+j]fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	76%	70%	130%	115%	70%	130%	104%	70%	130%
Benzo[k]fluoranthene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	109%	70%	130%	88%	70%	130%	82%	70%	130%
Benzo[a]pyrene	146	6983575	< 0.000007	< 0.000007	NA	< 0.000007	79%	70%	130%	89%	70%	130%	81%	70%	130%
Indeno[1,2,3-cd]pyrene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	81%	70%	130%	106%	70%	130%	92%	70%	130%
Benzo[ghi]perylene	146	6983575	< 0.00001	< 0.00001	NA	< 0.00001	76%	70%	130%	77%	70%	130%	77%	70%	130%
Dibenzo[ah]anthracene	146	6983575	< 0.000008	< 0.000008	NA	< 0.000008	84%	70%	130%	85%	70%	130%	77%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

  
 Certified By:

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020380

PROJECT: CG2430 E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
Calgary, Alberta T2E 7P7

P: 403.735.2005 • F: 403.735.2771

webeearth.agatlabs.com

### Laboratory Use Only

Arrival Temperature: 6°C  
AGAT Job Number: 15C020380

Date and Time: 15 SEP-16 18:08

### Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

#### Report Information

Company: Clifton Associates Ltd.  
Contact: Daniel Budai  
Address: 2222 30th Ave NE  
Calgary, AB T2E 7K9  
Phone: (403) 263-2556 Fax: (403) 234-9033  
LSD: \_\_\_\_\_  
Client Project #: CG12430 E15

#### Report Information

1. Name: Daniel Budai  
Email: daniel\_budai@clifton.ca  
2. Name: Mark Lehar  
Email: mark\_lehar@clifton.ca  
3. Name: Stephen D'Abadie  
Email: stephen\_dabadie@clifton.ca

#### Report Format

Single Sample per Page  
 Multiple Samples per Page

#### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

**RUSH TAT REQUESTS**  
UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

Date Required: \_\_\_\_\_

#### Invoice To

Same Yes  No

Company: Sears Canada Inc  
Contact: \_\_\_\_\_  
Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2G3  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
PO/AFE#: CG12430 E15

#### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  
 D50 (Drilling)  SPIGEC

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/F1	V2	VOCs	PAHs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
6983570	Trip Blank 6	Water	Sept. 16		1																	
571	1911	GW	Sept. 16/12:30		4											✓	✓	✓			✓	✓
	1911		Sept. 16/12:30		1																	
572	1907		Sept. 16/11:25		4											✓	✓	✓			✓	✓
	1907		Sept. 16/11:25		1																	
573	1907		Sept. 16/11:25		4											✓	✓	✓			✓	✓
574	1924		Sept. 16/12:15		4											✓	✓	✓			✓	✓
	1924		Sept. 16/12:15		1																	
575	1976		Sept. 16/12:40		4											✓	✓	✓			✓	✓
	1976		Sept. 16/12:40		1																	
576	1903		Sept. 16/13:00		1																	

Samples Relinquished By (Print Name and Sign): <u>Kelsey Decker</u>	Date/Time: <u>Sept 16/18:08</u>	Samples Received By (Print Name and Sign): <u>Rafina Brumby</u>	Date/Time: <u>16-Sept 2015</u>	Pink Copy - Client	Page <u>1</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign): <u>Kelsey Decker</u>	Date/Time: <u>Sept 16/18:08</u>	Samples Received By (Print Name and Sign): <u>Rafina Brumby</u>	Date/Time: <u>18:08</u>	Yellow Copy - AGAT	No: AB <b>045653</b>
Samples Relinquished By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: _____	White Copy - AGAT	



## Chain of Custody Record

P: 403.735.2005 • F: 403.735.2771

### Report to:

Company: Clifton Associates

Same as COC#: 045653

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO, SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste) CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/FI	F2	NO6	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
	1908	GW	Sept. 16/13:00		4															

6°C  
15C02038D

potentially

Samples Relinquished By (Print Name and Sign): <u>Kelsey Decker Kelsey Decker</u>	Date/Time: <u>Sept. 16/18:08</u>	Samples Received By (Print Name and Sign): <u>Rutina Anand Phung</u>	Date/Time: <u>16-Sept-2011 @ 18:08</u>	Pink Copy - Client	Page <u>2</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	Yellow Copy - AGAT	No: AB <b>005055</b> A
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	White Copy - AGAT	

# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

### RECEIVING BASICS - Shipping

Company/Consultant: Clifton  
 Courier: 7/10 Prepaid Collect  
 Waybill# \_\_\_\_\_  
 Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_  
 Custody Seal Intact: Yes  No NA  
 TAT: <24hr 24-48hr 48-72hr  Reg Other \_\_\_\_\_  
 Cooler Quantity: 1

### TIME SENSITIVE ISSUES - Shipping

ALREADY EXCEEDED HOLD TIME? Yes  No  
 Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity ,  
 Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* ,  
 Chloroamines\*  
 Earliest Expiry: \_\_\_\_\_  
 Hydrocarbons: Earliest Expiry 28-sept-2015

### SAMPLE INTEGRITY - Shipping

Hazardous Samples: YES  NO Precaution Taken: \_\_\_\_\_  
 Legal Samples: Yes  No  
 International Samples: Yes  No  
 Tape Sealed: Yes  No  
 Coolant Used: Icepack  Bagged Ice  Free Ice Free Water None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

FROZEN (Please Circle if samples received Frozen)

1 (Bottle/Jar) 6 + 6 + 6 = 0 °C 2 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 3 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 4 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 5 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 6 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 7 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 8 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 9 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 10 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

### LOGISTICS USE ONLY

Workorder No: \_\_\_\_\_  
 Samples Damaged: Yes No If YES why?  
 No Bubble Wrap Frozen Courier  
 Other: \_\_\_\_\_  
 Account Project Manager: \_\_\_\_\_ have they been notified of the  
 above issues: Yes No  
 Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 CPM Initial \_\_\_\_\_  
 General Comments: \_\_\_\_\_

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts Payable

PROJECT: CG2430E15

AGAT WORK ORDER: 15C020912

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 23, 2015

PAGES (INCLUDING COVER): 15

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Parameter	Unit	SAMPLE DESCRIPTION:		1907-2	1979	1944	1924-2	1950-A		1701	
		G / S	RDL	6987885	6987908	6987909	6987910	RDL	6987913	RDL	6987914
Benzene	mg/L		0.0005	0.0625	1.37	0.0016	3.18	0.0005	<0.0005	0.0005	<0.0005
Toluene	mg/L		0.0003	0.219	<0.0003	<0.0003	0.0135	0.0003	<0.0003	0.0003	<0.0003
Ethylbenzene	mg/L		0.0005	0.0036	<0.0005	<0.0005	<0.0005	0.0005	<0.0005	0.0005	<0.0005
Xylenes	mg/L		0.0005	0.159	<0.0005	<0.0005	0.202	0.0005	<0.0005	0.0005	<0.0005
C6 - C10 (F1)	mg/L		0.1	0.7	1.4	<0.1	3.5	0.1	<0.1	0.1	<0.1
C6 - C10 (F1 minus BTEX)	mg/L		0.1	0.3	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.5	0.1	<0.1
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	95	92	98	93		97		94
o-Terphenyl (F2)	%		50-150	100	99	100	100		100		98
		SAMPLE DESCRIPTION:		EX6	EX2	EX5	EX95	EX4	EX7		
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water		
		DATE SAMPLED:		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015		
Parameter	Unit	G / S	RDL	6987930	6987931	6987932	6987933	6987934	6988004		
Benzene	mg/L		0.0005	0.497	1.95	2.57	2.77	3.36	2.45		
Toluene	mg/L		0.0003	0.170	0.0399	5.62	6.06	1.60	0.118		
Ethylbenzene	mg/L		0.0005	0.790	0.867	1.09	1.24	1.06	0.778		
Xylenes	mg/L		0.0005	0.971	0.635	3.69	4.12	8.57	1.50		
C6 - C10 (F1)	mg/L		0.1	4.0	3.7	18.4	19.5	19.9	5.4		
C6 - C10 (F1 minus BTEX)	mg/L		0.1	1.6	0.2	5.4	5.3	5.3	0.6		
C10 - C16 (F2)	mg/L		0.1	0.4	0.1	0.8	0.8	0.9	0.6		
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	98	94	97	98	95	95		
o-Terphenyl (F2)	%		50-150	98	98	98	97	98	99		

Certified By:

*Elena Gorobets*



## Certificate of Analysis

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FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6987885-6987910 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

6987913 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

RDL for F2 was changed due to limited sample volume.

6987914-6988004 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Parameter	Unit	SAMPLE DESCRIPTION:		1907-2	1924-2
		G / S	RDL	6987885	6987910
Acridine	mg/L		0.00005	<0.00005	<0.00005
Quinoline	mg/L		0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L		0.00001	0.00018	0.00001
Naphthalene	mg/L		0.00001	0.00149	0.00200
Acenaphthylene	mg/L		0.00001	<0.00001	<0.00001
Acenaphthene	mg/L		0.00001	<0.00001	<0.00001
Fluorene	mg/L		0.00001	<0.00001	<0.00001
Phenanthrene	mg/L		0.00001	<0.00001	<0.00001
Anthracene	mg/L		0.000010	<0.00001	<0.00001
Fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L		0.000010	<0.00001	<0.00001
Chrysene	mg/L		0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L		0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L		0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L		0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L		0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits			
2-Fluorobiphenyl (PAH)	%	50-150		114	108
p-Terphenyl-d14 (PAH)	%	50-150		103	103

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6987885-6987910 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

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CANADA T2E 7P7  
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FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Parameter	Unit	SAMPLE DESCRIPTION:		Trip Blank	1907-2	1979	1944	1924-2	1950-A	1701	EX6
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
	G / S	RDL	6987824	6987885	6987908	6987909	6987910	6987913	6987914	6987930	
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	<0.001	0.005	<0.001	0.145	<0.001	<0.001	<0.001	0.047
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	0.0625	1.37	0.0016	3.18	<0.0005	<0.0005	<0.0005	0.497
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	0.219	<0.0003	<0.0003	0.0135	<0.0003	<0.0003	<0.0003	0.170
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Parameter	Unit	SAMPLE DESCRIPTION:		Trip Blank	1907-2	1979	1944	1924-2	1950-A	1701	EX6	
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
		G / S	RDL	6987824	6987885	6987908	6987909	6987910	6987913	6987914	6987930	
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Ethylbenzene	mg/L		0.0005	<0.0005	0.0036	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.790	
m,p-Xylenes	mg/L		0.0005	<0.0005	0.133	<0.0005	<0.0005	0.0273	<0.0005	<0.0005	0.948	
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
o-Xylene	mg/L		0.0005	<0.0005	0.0263	<0.0005	<0.0005	0.175	<0.0005	<0.0005	0.0230	
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylenes	mg/L		0.0005	<0.0005	0.159	<0.0005	<0.0005	0.202	<0.0005	<0.0005	0.971	
Surrogate	Unit	Acceptable Limits										
Toluene-d8	%		50-150	98	120	99	99	101	95	97	111	

Certified By:

*Elena Gorobets*



## Certificate of Analysis

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Parameter	Unit	SAMPLE DESCRIPTION:		EX2	EX5	EX95	EX4	EX7
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
	G / S	RDL	6987931	6987932	6987933	6987934	6988004	
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	0.048	0.074	0.076	0.033	0.158	
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	1.95	2.57	2.77	3.36	2.45	
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.002
Toluene	mg/L	0.0003	0.0399	5.62	6.06	1.60	0.118	
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-17

DATE REPORTED: 2015-09-23

Parameter	Unit	SAMPLE DESCRIPTION:		EX2	EX5	EX95	EX4	EX7
		G / S	RDL	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L		0.0005	0.867	1.09	1.24	1.06	0.778
m,p-Xylenes	mg/L		0.0005	0.626	3.31	3.72	6.84	1.22
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L		0.001	<0.001	<0.001	0.002	0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L		0.0005	0.0088	0.389	0.395	1.73	0.278
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L		0.0005	0.635	3.69	4.12	8.57	1.50
Surrogate	Unit	Acceptable Limits						
Toluene-d8	%		50-150	112	123	132	139	138

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6987824-6988004 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.

Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis

RPT Date: Sep 23, 2015			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatile Organic Compounds in Water**

Chloromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	117%	60%	140%	109%	60%	140%
Vinyl Chloride	2314	6987885	<0.0008	<0.0008	NA	< 0.0008	117%	60%	140%	121%	60%	140%	113%	60%	140%
Bromomethane	2314	6987885	<0.001	<0.001	NA	< 0.001	129%	60%	140%	126%	60%	140%	128%	60%	140%
Chloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	124%	60%	140%	124%	60%	140%	116%	60%	140%
Trichlorofluoromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	115%	60%	140%	124%	60%	140%	118%	60%	140%
Acetone	2314	6987885	<0.01	<0.01	NA	< 0.01	113%	60%	140%	111%	60%	140%	84%	60%	140%
1,1-Dichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	117%	60%	140%	113%	60%	140%
Methylene Chloride	2314	6987885	<0.001	<0.001	NA	< 0.001	109%	60%	140%	110%	60%	140%	102%	60%	140%
Methyl tert-Butyl Ether	2314	6987885	<0.001	<0.001	NA	< 0.001	111%	60%	140%	112%	60%	140%	100%	60%	140%
Methyl Ethyl Ketone	2314	6987885	<0.01	<0.01	NA	< 0.01	113%	60%	140%	120%	60%	140%	99%	60%	140%
trans-1,2-Dichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	116%	60%	140%	113%	60%	140%
1,1-Dichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	115%	60%	140%	119%	60%	140%	113%	60%	140%
cis-1,2 Dichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	100%	60%	140%	108%	60%	140%	103%	60%	140%
Chloroform	2314	6987885	<0.001	<0.001	NA	< 0.001	101%	60%	140%	106%	60%	140%	102%	60%	140%
1,2-Dichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	105%	60%	140%	104%	60%	140%	100%	60%	140%
1,1,1-Trichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	103%	60%	140%	110%	60%	140%	106%	60%	140%
Carbon Tetrachloride	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	107%	60%	140%	111%	60%	140%	106%	60%	140%
Benzene	2314	6987885	0.0643	0.0625	2.8%	< 0.0005	110%	60%	140%	112%	60%	140%	111%	60%	140%
1,2-Dichloropropane	2314	6987885	<0.001	<0.001	NA	< 0.001	107%	60%	140%	111%	60%	140%	108%	60%	140%
Trichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	117%	60%	140%	110%	60%	140%
Bromodichloromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	98%	60%	140%	103%	60%	140%	103%	60%	140%
trans-1,3-Dichloropropene	2314	6987885	<0.001	<0.001	NA	< 0.001	103%	60%	140%	110%	60%	140%	107%	60%	140%
Methyl Isobutyl Ketone	2314	6987885	<0.01	<0.01	NA	< 0.01	92%	60%	140%	99%	60%	140%	100%	60%	140%
cis-1,3-Dichloropropene	2314	6987885	<0.001	<0.001	NA	< 0.001	105%	60%	140%	110%	60%	140%	107%	60%	140%
1,1,2-Trichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	103%	60%	140%	108%	60%	140%	105%	60%	140%
Toluene	2314	6987885	0.203	0.219	7.6%	< 0.0003	109%	60%	140%	111%	60%	140%	109%	60%	140%
2-Hexanone	2314	6987885	<0.01	<0.01	NA	< 0.01	116%	60%	140%	115%	60%	140%	106%	60%	140%
Dibromochloromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	106%	60%	140%	107%	60%	140%	108%	60%	140%
Ethylene Dibromide	2314	6987885	<0.001	<0.001	NA	< 0.001	102%	60%	140%	105%	60%	140%	105%	60%	140%
Tetrachloroethene	2314	6987885	<0.001	<0.001	NA	< 0.001	128%	60%	140%	125%	60%	140%	122%	60%	140%
1,1,1,2-Tetrachloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	100%	60%	140%	106%	60%	140%	105%	60%	140%
Chlorobenzene	2314	6987885	<0.001	<0.001	NA	< 0.001	110%	60%	140%	111%	60%	140%	109%	60%	140%
Ethylbenzene	2314	6987885	0.0046	0.0036	24.4%	< 0.0005	124%	60%	140%	129%	60%	140%	125%	60%	140%
m,p-Xylenes	2314	6987885	0.118	0.133	12.0%	< 0.0005	115%	60%	140%	124%	60%	140%	122%	60%	140%
Bromoform	2314	6987885	<0.001	<0.001	NA	< 0.001	108%	60%	140%	109%	60%	140%	108%	60%	140%
Styrene	2314	6987885	<0.001	<0.001	NA	< 0.001	117%	60%	140%	121%	60%	140%	118%	60%	140%
1,1,2,2-Tetrachloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	108%	60%	140%	112%	60%	140%	113%	60%	140%
o-Xylene	2314	6987885	0.0330	0.0263	22.6%	< 0.0005	112%	60%	140%	119%	60%	140%	116%	60%	140%
1,3-Dichlorobenzene	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	122%	60%	140%	126%	60%	140%	125%	60%	140%



## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 23, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	123%	60%	140%	126%	60%	140%	125%	60%	140%	
1,2-Dichlorobenzene	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	115%	60%	140%	121%	60%	140%	120%	60%	140%	
1,2,4-Trichlorobenzene	2314	6987885	<0.001	<0.001	NA	< 0.001	119%	60%	140%	127%	60%	140%	124%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	2166	6987908	1.37	1.34	2.2%	< 0.0005	100%	80%	120%	104%	80%	120%	102%	70%	130%
Toluene	2166	6987908	<0.0003	<0.0003	NA	< 0.0003	95%	80%	120%	97%	80%	120%	99%	70%	130%
Ethylbenzene	2166	6987908	<0.0005	<0.0005	NA	< 0.0005	93%	80%	120%	94%	80%	120%	89%	70%	130%
Xylenes	2166	6987908	<0.0005	<0.0005	NA	< 0.0005	92%	80%	120%	97%	80%	120%	93%	70%	130%
C6 - C10 (F1)	2166	6987908	1.4	1.4	0.0%	< 0.1	81%	80%	120%	102%	80%	120%	115%	70%	130%
C10 - C16 (F2)	390	6988101	<0.1	<0.1	NA	< 0.1	100%	80%	120%	111%	80%	120%	91%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	648	6989093	<0.00005	<0.00005	NA	< 0.00005	86%	70%	130%	86%	70%	130%	95%	70%	130%
Quinoline	648	6989093	<0.0001	<0.0001	NA	< 0.0001	92%	70%	130%	111%	70%	130%	123%	70%	130%
2-Methylnaphthalene	648	6989093	0.00001	<0.00001	NA	< 0.00001	124%	70%	130%	103%	70%	130%	106%	70%	130%
Naphthalene	648	6989093	0.00003	0.00003	NA	< 0.00001	119%	70%	130%	103%	70%	130%	103%	70%	130%
Acenaphthylene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	105%	70%	130%	91%	70%	130%	99%	70%	130%
Acenaphthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	103%	70%	130%	105%	70%	130%
Fluorene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	109%	70%	130%	96%	70%	130%	98%	70%	130%
Phenanthrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	121%	70%	130%	108%	70%	130%	109%	70%	130%
Anthracene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	95%	70%	130%	100%	70%	130%
Fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	113%	70%	130%	105%	70%	130%	109%	70%	130%
Pyrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	121%	70%	130%	111%	70%	130%	111%	70%	130%
Benzo[a]anthracene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	117%	70%	130%	97%	70%	130%	105%	70%	130%
Chrysene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	112%	70%	130%	100%	70%	130%	102%	70%	130%
Benzo[b+j]fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	90%	70%	130%	92%	70%	130%	91%	70%	130%
Benzo[k]fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	112%	70%	130%	92%	70%	130%	94%	70%	130%
Benzo[a]pyrene	648	6989093	< 0.000007	< 0.000007	NA	< 0.000007	90%	70%	130%	89%	70%	130%	87%	70%	130%
Indeno[1,2,3-cd]pyrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	127%	70%	130%	98%	70%	130%	104%	70%	130%
Benzo[ghi]perylene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	82%	70%	130%	94%	70%	130%
Dibenzo[ah]anthracene	648	6989093	< 0.000008	< 0.000008	NA	< 0.000008	128%	70%	130%	102%	70%	130%	114%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

  
 Certified By:

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C020912

PROJECT: CG2430E15

ATTENTION TO: Accounts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webearth.agatlabs.com

### Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates Ltd.  
 Contact: Daniel Budai  
 Address: 2222 30th Ave. NE  
Calgary AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 281-9033

### Report Information

1. Name: Daniel Budai  
 Email: daniel\_budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark.lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen.dabadie@clifton.ca

### LSD:

Client Project #: G62430 E15

### Invoice To

Same Yes  No   
 Company: Sears Canada Inc.  
 Contact: 290 Yame Street Suite 700  
Toronto, ON M5B 2G3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/A/E #: G62430 E15

### Requirements (Selection may impact detection limits)

- CCME  AB Tier 1  BC CSR
- Agricultural  Agricultural
  - Industrial  Industrial
  - Residential/Park  Residential/Park
  - Commercial  Commercial
  - Drinking Water  Natural Area
  - FWAL  AB Surface Water
  - Other  D50 (Drilling)  SPIGEC

### Report Format

- Single Sample per Page  
 Multiple Samples per Page

### Turnaround Time Required (TAT)

- Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

Date Required: \_\_\_\_\_

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

### Laboratory Use Only

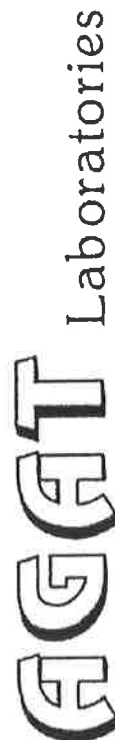
Arrival Temperature: 8°C  
 AGAT Job Number: ASC 020912  
 Date and Time: 15 SEP-17 18:50

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CMCME BTEX/FT-F4	Soil Metals	Water Metals	Routine Water Potability	AB Class 2 Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/PH/EPH	LEPH/HEPH	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
2													
4													
4													
4													
4													
4													
4													
4													
4													

Samples Relinquished By (Print Name and Sign): <u>Keykey Deeper</u>	Date/Time: <u>Sep 17/18:50</u>	Samples Received By (Print Name and Sign): <u>Rutina Mungol</u>	Date/Time: <u>17-Sept-18 18:50</u>	Page <u>1</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign): <u>Hobey Deeper</u>	Date/Time: <u>Sep 17/18:50</u>	Samples Received By (Print Name and Sign): <u>Hamed</u>	Date/Time: <u>17-Sept-18 18:50</u>	Pink Copy - Client Yellow Copy - AGAT White Copy - AGAT
Samples Relinquished By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: _____	No. AB <b>045654</b>



**SAMPLE INTEGRITY RECEIPT FORM**



Temperature (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 8 + 8 = 8 °C 2 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

3 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 4 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

5 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 6 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

7 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 8 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

9 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C 10 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: NSC 020912

Samples Damaged: Yes No If YES why? \_\_\_\_\_

No Bubble Wrap Frozen Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

**RECEIVING BASICS - Shipping**

Company/Consultant: Sears / Clayton

Courier: JLO Prepaid Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_

Custody Seal Intact: Yes (No) NA

TAT: <24hr 24-48hr 48-72hr (Reg) Other \_\_\_\_\_

Cooler Quantity: 1

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes (No)

Inorganic Tests (Please Circle): Mibi, BOD, Nitrate/Nitrite, Turbidity, Microtox, Ortho PO4, Tedlar Bag, Residual Chlorine, Chlorophyll\*, Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry 01-02-2015

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES (NO) Precaution Taken: \_\_\_\_\_

Legal Samples: Yes (No)

International Samples: Yes (No)

Tape Sealed: Yes (No)

Coolant Used: Icepack Bagged Ice (Free Ice) Free Water None

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accouts Payable

PROJECT: CG2430E15

AGAT WORK ORDER: 15C021054

TRACE ORGANICS REVIEWED BY: Alison Sekera, Organics Coordinator

DATE REPORTED: Sep 24, 2015

PAGES (INCLUDING COVER): 11

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-18

DATE REPORTED: 2015-09-24

Parameter	Unit	SAMPLE DESCRIPTION:		1928	1956
		G / S	RDL	6989092	6989093
Benzene	mg/L		0.0005	4.72	3.04
Toluene	mg/L		0.0003	0.0032	0.246
Ethylbenzene	mg/L		0.0005	0.0012	0.0542
Xylenes	mg/L		0.0005	0.0783	0.203
C6 - C10 (F1)	mg/L		0.1	5.0	3.6
C6 - C10 (F1 minus BTEX)	mg/L		0.1	0.2	0.1
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits			
Toluene-d8 (BTEX)	%		50-150	91	91
o-Terphenyl (F2)	%		50-150	94	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6989092-6989093 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
 C10 - C16 (F2-naph) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-18

DATE REPORTED: 2015-09-24

Parameter	Unit	SAMPLE DESCRIPTION:		1928	1956
		G / S	RDL	6989092	6989093
Acridine	mg/L		0.00005	<0.00005	<0.00005
Quinoline	mg/L		0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L		0.00001	<0.00001	0.00001
Naphthalene	mg/L		0.00001	0.00003	0.00003
Acenaphthylene	mg/L		0.00001	<0.00001	<0.00001
Acenaphthene	mg/L		0.00001	<0.00001	<0.00001
Fluorene	mg/L		0.00001	<0.00001	<0.00001
Phenanthrene	mg/L		0.00001	<0.00001	<0.00001
Anthracene	mg/L		0.000010	<0.00001	<0.00001
Fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L		0.000010	<0.00001	<0.00001
Chrysene	mg/L		0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L		0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L		0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L		0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L		0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits			
2-Fluorobiphenyl (PAH)	%	50-150		110	105
p-Terphenyl-d14 (PAH)	%	50-150		104	103

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6989092-6989093 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-18

DATE REPORTED: 2015-09-24

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	Trip Blank 8	1928	1956
				Water	Water	Water
				9/18/2015	9/18/2015	9/18/2015
				6989085	6989092	6989093
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	0.198	0.066	
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	4.72	3.04	
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	0.002	0.001	
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	0.0032	0.246	
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Alison Sekera*



## Certificate of Analysis

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-18

DATE REPORTED: 2015-09-24

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	6989085	6989092	6989093
				Trip Blank 8	1928	1956
				Water	Water	Water
				9/18/2015	9/18/2015	9/18/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	0.0012	0.0542	
m,p-Xylenes	mg/L	0.0005	<0.0005	0.0038	0.0684	
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	<0.0005	0.0745	0.135	
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	<0.0005	0.0783	0.203	
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-150	94	121	118	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6989085-6989093 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.

Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis

RPT Date: Sep 24, 2015			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatile Organic Compounds in Water**

Chloromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	117%	60%	140%	109%	60%	140%
Vinyl Chloride	2314	6987885	<0.0008	<0.0008	NA	< 0.0008	117%	60%	140%	121%	60%	140%	113%	60%	140%
Bromomethane	2314	6987885	<0.001	<0.001	NA	< 0.001	129%	60%	140%	126%	60%	140%	128%	60%	140%
Chloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	124%	60%	140%	124%	60%	140%	116%	60%	140%
Trichlorofluoromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	115%	60%	140%	124%	60%	140%	118%	60%	140%
Acetone	2314	6987885	<0.01	<0.01	NA	< 0.01	113%	60%	140%	111%	60%	140%	84%	60%	140%
1,1-Dichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	117%	60%	140%	113%	60%	140%
Methylene Chloride	2314	6987885	<0.001	<0.001	NA	< 0.001	109%	60%	140%	110%	60%	140%	102%	60%	140%
Methyl tert-Butyl Ether	2314	6987885	<0.001	<0.001	NA	< 0.001	111%	60%	140%	112%	60%	140%	100%	60%	140%
Methyl Ethyl Ketone	2314	6987885	<0.01	<0.01	NA	< 0.01	113%	60%	140%	120%	60%	140%	99%	60%	140%
trans-1,2-Dichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	116%	60%	140%	113%	60%	140%
1,1-Dichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	115%	60%	140%	119%	60%	140%	113%	60%	140%
cis-1,2 Dichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	100%	60%	140%	108%	60%	140%	103%	60%	140%
Chloroform	2314	6987885	<0.001	<0.001	NA	< 0.001	101%	60%	140%	106%	60%	140%	102%	60%	140%
1,2-Dichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	105%	60%	140%	104%	60%	140%	100%	60%	140%
1,1,1-Trichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	103%	60%	140%	110%	60%	140%	106%	60%	140%
Carbon Tetrachloride	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	107%	60%	140%	111%	60%	140%	106%	60%	140%
Benzene	2314	6987885	0.0643	0.0625	2.8%	< 0.0005	110%	60%	140%	112%	60%	140%	111%	60%	140%
1,2-Dichloropropane	2314	6987885	<0.001	<0.001	NA	< 0.001	107%	60%	140%	111%	60%	140%	108%	60%	140%
Trichloroethylene	2314	6987885	<0.001	<0.001	NA	< 0.001	112%	60%	140%	117%	60%	140%	110%	60%	140%
Bromodichloromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	98%	60%	140%	103%	60%	140%	103%	60%	140%
trans-1,3-Dichloropropene	2314	6987885	<0.001	<0.001	NA	< 0.001	103%	60%	140%	110%	60%	140%	107%	60%	140%
Methyl Isobutyl Ketone	2314	6987885	<0.01	<0.01	NA	< 0.01	92%	60%	140%	99%	60%	140%	100%	60%	140%
cis-1,3-Dichloropropene	2314	6987885	<0.001	<0.001	NA	< 0.001	105%	60%	140%	110%	60%	140%	107%	60%	140%
1,1,2-Trichloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	103%	60%	140%	108%	60%	140%	105%	60%	140%
Toluene	2314	6987885	0.203	0.219	7.6%	< 0.0003	109%	60%	140%	111%	60%	140%	109%	60%	140%
2-Hexanone	2314	6987885	<0.01	<0.01	NA	< 0.01	116%	60%	140%	115%	60%	140%	106%	60%	140%
Dibromochloromethane	2314	6987885	<0.001	<0.001	NA	< 0.001	106%	60%	140%	107%	60%	140%	108%	60%	140%
Ethylene Dibromide	2314	6987885	<0.001	<0.001	NA	< 0.001	102%	60%	140%	105%	60%	140%	105%	60%	140%
Tetrachloroethene	2314	6987885	<0.001	<0.001	NA	< 0.001	128%	60%	140%	125%	60%	140%	122%	60%	140%
1,1,1,2-Tetrachloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	100%	60%	140%	106%	60%	140%	105%	60%	140%
Chlorobenzene	2314	6987885	<0.001	<0.001	NA	< 0.001	110%	60%	140%	111%	60%	140%	109%	60%	140%
Ethylbenzene	2314	6987885	0.0046	0.0036	24.4%	< 0.0005	124%	60%	140%	129%	60%	140%	125%	60%	140%
m,p-Xylenes	2314	6987885	0.118	0.133	12.0%	< 0.0005	115%	60%	140%	124%	60%	140%	122%	60%	140%
Bromoform	2314	6987885	<0.001	<0.001	NA	< 0.001	108%	60%	140%	109%	60%	140%	108%	60%	140%
Styrene	2314	6987885	<0.001	<0.001	NA	< 0.001	117%	60%	140%	121%	60%	140%	118%	60%	140%
1,1,2,2-Tetrachloroethane	2314	6987885	<0.001	<0.001	NA	< 0.001	108%	60%	140%	112%	60%	140%	113%	60%	140%
o-Xylene	2314	6987885	0.0330	0.0263	22.6%	< 0.0005	112%	60%	140%	119%	60%	140%	116%	60%	140%
1,3-Dichlorobenzene	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	122%	60%	140%	126%	60%	140%	125%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 24, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	123%	60%	140%	126%	60%	140%	125%	60%	140%	
1,2-Dichlorobenzene	2314	6987885	<0.0005	<0.0005	NA	< 0.0005	115%	60%	140%	121%	60%	140%	120%	60%	140%	
1,2,4-Trichlorobenzene	2314	6987885	<0.001	<0.001	NA	< 0.001	119%	60%	140%	127%	60%	140%	124%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	2165	6988083	<0.0005	<0.0005	NA	< 0.0005	109%	80%	120%	100%	80%	120%	98%	70%	130%
Toluene	2165	6988083	<0.0003	<0.0003	NA	< 0.0003	106%	80%	120%	95%	80%	120%	94%	70%	130%
Ethylbenzene	2165	6988083	<0.0005	<0.0005	NA	< 0.0005	103%	80%	120%	94%	80%	120%	92%	70%	130%
Xylenes	2165	6988083	<0.0005	<0.0005	NA	< 0.0005	104%	80%	120%	95%	80%	120%	94%	70%	130%
C6 - C10 (F1)	2165	6988083	<0.1	<0.1	NA	< 0.1	101%	80%	120%	116%	80%	120%	87%	70%	130%
C10 - C16 (F2)	391	6988968	<0.1	<0.1	NA	< 0.1	94%	80%	120%	99%	80%	120%	106%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	648	6989093	<0.00005	<0.00005	NA	< 0.00005	86%	70%	130%	86%	70%	130%	95%	70%	130%
Quinoline	648	6989093	<0.0001	<0.0001	NA	< 0.0001	92%	70%	130%	111%	70%	130%	123%	70%	130%
2-Methylnaphthalene	648	6989093	0.00001	<0.00001	NA	< 0.00001	124%	70%	130%	103%	70%	130%	106%	70%	130%
Naphthalene	648	6989093	0.00003	0.00003	NA	< 0.00001	119%	70%	130%	103%	70%	130%	103%	70%	130%
Acenaphthylene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	105%	70%	130%	91%	70%	130%	99%	70%	130%
Acenaphthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	103%	70%	130%	105%	70%	130%
Fluorene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	109%	70%	130%	96%	70%	130%	98%	70%	130%
Phenanthrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	121%	70%	130%	108%	70%	130%	109%	70%	130%
Anthracene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	95%	70%	130%	100%	70%	130%
Fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	113%	70%	130%	105%	70%	130%	109%	70%	130%
Pyrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	121%	70%	130%	111%	70%	130%	111%	70%	130%
Benzo[a]anthracene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	117%	70%	130%	97%	70%	130%	105%	70%	130%
Chrysene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	112%	70%	130%	100%	70%	130%	102%	70%	130%
Benzo[b+j]fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	90%	70%	130%	92%	70%	130%	91%	70%	130%
Benzo[k]fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	112%	70%	130%	92%	70%	130%	94%	70%	130%
Benzo[a]pyrene	648	6989093	< 0.000007	< 0.000007	NA	< 0.000007	90%	70%	130%	89%	70%	130%	87%	70%	130%
Indeno[1,2,3-cd]pyrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	127%	70%	130%	98%	70%	130%	104%	70%	130%
Benzo[ghi]perylene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	82%	70%	130%	94%	70%	130%
Dibenzo[ah]anthracene	648	6989093	< 0.000008	< 0.000008	NA	< 0.000008	128%	70%	130%	102%	70%	130%	114%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By: 

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021054

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS

**Laboratory Use Only**

Arrival Temperature: 7.2 °C

AGAT Job Number: 15C021054

Date and Time: 15 SEP-18 17:54

**Chain of Custody Record**      **Emergency Support Services Hotline 1-855-AGAT 245 (1-855-242-8245)**

**Report Information**

Company: Clifton Associates Ltd.  
 Contact: Daniel Budaj  
 Address: 2222 - 30th Ave. NE  
Calgary, AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 234-9033  
 LSD: \_\_\_\_\_  
 Client Project #: CG2430 E15

**Report Information**

1. Name: Daniel Budaj  
 Email: daniel-budaj@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark-lehar@clifton.ca  
 3. Name: Stephen d. Abadie  
 Email: stephen\_dabadie@clifton.ca

**Report Format**

Single Sample per Page

Multiple Samples per Page

**Turnaround Time Required (TAT)**

Regular TAT  5 to 7 business days

Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

Date Required: \_\_\_\_\_

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT. THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

**Invoice To**      Same Yes  No

Company: Sears Canada Inc.  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2C3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/AFE#: CG2430 E15

**Requirements (Selection may impact detection limits)**

CCME       AB Tier 1       BC CSR

Agricultural       Agricultural       AW  
 Industrial       Industrial       IW  
 Residential/Park       Residential/Park       LW  
 Commercial       Commercial       DW  
 Drinking Water       Natural Area  
 FWAL       AB Surface Water

Other  
 D50 (Drilling)       SPIGEC

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	VOCs	BTEX/FI	PAHs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) <u>potentially</u>
3											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT
<u>092</u>	<u>Trip Blank 8</u>	<u>water</u>	<u>Sept. 18, 2015</u>	
	<u>1928</u>	<u>GW</u>	<u>Sept. 18 / 8:35</u>	
	<u>1928</u>		<u>Sept. 18 / 8:35</u>	
<u>093</u>	<u>1956</u>		<u>Sept. 18 / 9:05</u>	
	<u>1956</u>		<u>Sept. 18 / 9:05</u>	

Samples Relinquished By (Print Name and Sign): Kelsey Deeper      Date/Time: Sept 18 / 17:55

Samples Received By (Print Name and Sign): H. Menchavez      Date/Time: Sept. 18 / 2015

Samples Relinquished By (Print Name and Sign): \_\_\_\_\_      Date/Time: \_\_\_\_\_

Samples Received By (Print Name and Sign): \_\_\_\_\_      Date/Time: 5:54 pm

Samples Relinquished By (Print Name and Sign): \_\_\_\_\_      Date/Time: \_\_\_\_\_

Samples Received By (Print Name and Sign): \_\_\_\_\_      Date/Time: \_\_\_\_\_

Pink Copy - Client  
 Yellow Copy - AGAT  
 White Copy - AGAT

Page 1 of 1

Nº: AB **042740**





# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

**RECEIVING BASICS - Shipping**

Company/Consultant: Clifton Associates

Courier: D/O Prepaid Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_

Custody Seal Intact: Yes No NA

TAT: <24hr 24-48hr 48-72hr Reg Other \_\_\_\_\_

Cooler Quantity: 1

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes No

Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity , Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* , Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry PAH Sept. 25 / 2015

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES NO Precaution Taken: \_\_\_\_\_

Legal Samples: Yes No

International Samples: Yes No

Tape Sealed: Yes No

Coolant Used: Icepack Bagged Ice Free Ice Free Water None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 7.2 + 7.2 + 7.2 = 7.2 °C 2(Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

3 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 4 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

5 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 6 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

7 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 8 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

9 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C 10 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: 15C021054

Samples Damaged: Yes No If YES why?

No Bubble Wrap Frozen Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accouts Payable

PROJECT: CG2430E15

AGAT WORK ORDER: 15C021479

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 25, 2015

PAGES (INCLUDING COVER): 15

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 15C021479

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Parameter	Unit	SAMPLE DESCRIPTION:		1962	1964	1972	1928-2	1978	1945	1939	9939
		G / S	RDL	6993827	6993831	6993832	6993833	6993835	6993837	6993838	6993840
Benzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	2.34	<0.0005	<0.0005	8.00	8.37
Toluene	mg/L		0.0003	<0.0003	<0.0003	<0.0003	0.0031	<0.0003	<0.0003	0.0244	0.0254
Ethylbenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.286	0.277
Xylenes	mg/L		0.0005	<0.0005	<0.0005	<0.0005	0.0636	<0.0005	<0.0005	0.0547	0.0537
C6 - C10 (F1)	mg/L		0.1	<0.1	<0.1	<0.1	2.5	<0.1	<0.1	9.5	9.9
C6 - C10 (F1 minus BTEX)	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	1.1
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	106	113	102	102	105	101	111	100
o-Terphenyl (F2)	%		50-150	104	103	104	104	104	105	104	103
		SAMPLE DESCRIPTION:		1982	9982	1956-2	1951	1946		1947	
		SAMPLE TYPE:		Water	Water	Water	Water	Water		Water	
		DATE SAMPLED:		9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015		9/21/2015	
Parameter	Unit	G / S	RDL	6993841	6993843	6993844	6993845	6993846	RDL	6993848	
Benzene	mg/L		0.0005	10.7	11.0	0.0084	<0.0005	<0.0005	0.0005	<0.0005	
Toluene	mg/L		0.0003	0.281	0.284	<0.0003	<0.0003	<0.0003	0.0003	<0.0003	
Ethylbenzene	mg/L		0.0005	0.438	0.419	<0.0005	<0.0005	<0.0005	0.0005	<0.0005	
Xylenes	mg/L		0.0005	1.00	1.00	<0.0005	<0.0005	<0.0005	0.0005	<0.0005	
C6 - C10 (F1)	mg/L		0.1	12.8	13.0	<0.1	<0.1	<0.1	0.1	<0.1	
C6 - C10 (F1 minus BTEX)	mg/L		0.1	0.3	0.3	<0.1	<0.1	<0.1	0.1	<0.1	
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.5	
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%		50-150	101	96	99	100	106		114	
o-Terphenyl (F2)	%		50-150	106	103	103	104	102		104	

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C021479

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6993827-6993846 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 -C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naphth ) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

6993848 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 -C10 (F1 minus BTEX) is calculated parameter after BTEX is subtracted from fraction F1.  
C10 - C16 (F2-naphth ) is calculated parameter after naphthalene is subtracted from fraction F2 (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

RDL for F2 was changed due to limited sample volume.

Certified By:

*Elena Gorobets*

# Certificate of Analysis

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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Parameter	Unit	SAMPLE DESCRIPTION:		1928-2	1956-2
		G / S	RDL	6993833	6993844
Acridine	mg/L		0.00005	<0.00005	<0.00005
Quinoline	mg/L		0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L		0.00001	<0.00001	<0.00001
Naphthalene	mg/L		0.00001	0.00002	<0.00001
Acenaphthylene	mg/L		0.00001	<0.00001	<0.00001
Acenaphthene	mg/L		0.00001	<0.00001	<0.00001
Fluorene	mg/L		0.00001	<0.00001	<0.00001
Phenanthrene	mg/L		0.00001	<0.00001	<0.00001
Anthracene	mg/L		0.000010	<0.000010	<0.000010
Fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L		0.000010	<0.000010	<0.000010
Chrysene	mg/L		0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L		0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L		0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L		0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L		0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L		0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L		0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits			
2-Fluorobiphenyl (PAH)	%		50-150	105	112
p-Terphenyl-d14 (PAH)	%		50-150	115	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

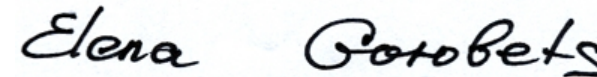
6993833-6993844 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

B[a]P TPE is a calculated parameter. The calculated value is (Benzo[a]anthracene\*0.1)+(Benzo[b]fluoranthene\*0.1)+(Benzo[k]fluoranthene\*0.1)+(Benzo[ghi]perylene\*0.

01)+(Benzo[a]pyrene\*1)+(Chrysene\*0.01)+(Dibenz(ah)anthracene\*1)+(Indeno(1,2,3-cd)pyrene\*0.1). If analysis returns non-detects, ½ the detection limit is entered into the formulas.

Certified By:



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CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Parameter	Unit	SAMPLE DESCRIPTION:		1962	1964	1972	1928-2	1978	1945	1939	9939
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015
		G / S	RDL	6993827	6993831	6993832	6993833	6993835	6993837	6993838	6993840
Chloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L		0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L		0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L		0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	0.217	<0.001	<0.001	0.167	0.173
1,1,1-Trichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	2.34	<0.0005	<0.0005	8.00	8.37
1,2-Dichloropropane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L		0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	0.003
Toluene	mg/L		0.0003	<0.0003	<0.0003	<0.0003	0.0031	<0.0003	<0.0003	0.0244	0.0254
2-Hexanone	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

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<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Parameter	Unit	SAMPLE DESCRIPTION:		1962	1964	1972	1928-2	1978	1945	1939	9939
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:		9/21/2015		9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.286	0.277
m,p-Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0080	<0.0005	<0.0005	0.0517	0.0507
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0556	<0.0005	<0.0005	0.0030	0.0030
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0636	<0.0005	<0.0005	0.0547	0.0537
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-150		85	85	84	109	85	83	137	143

Certified By:

*Elena Gorobets*



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CLIENT NAME: SEARS CANADA INC

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SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Parameter	Unit	SAMPLE DESCRIPTION:		1982	9982	1956-2	1951	1946	1947	Trip Blank 9
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015	9/21/2015
	G / S	RDL	6993841	6993843	6993844	6993845	6993846	6993848	6993851	
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	0.177	0.178	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	10.7	11.0	0.0084	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	0.003	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	0.281	0.284	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*





## Certificate of Analysis

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ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-21

DATE REPORTED: 2015-09-25

Parameter	Unit	SAMPLE DESCRIPTION:		1982	9982	1956-2	1951	1946	1947	Trip Blank 9
		G / S	RDL	6993841	6993843	6993844	6993845	6993846	6993848	6993851
1,1,1,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L		0.0005	0.438	0.419	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L		0.0005	0.546	0.512	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L		0.0005	0.454	0.490	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L		0.0005	1.00	1.00	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits								
Toluene-d8	%	50-150		99	96	82	82	84	81	89

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6993827-6993851 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021479

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis

RPT Date: Sep 25, 2015			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatile Organic Compounds in Water**

Chloromethane	2316	6993851	<0.001	<0.001	NA	< 0.001	117%	60%	140%	107%	60%	140%	91%	60%	140%
Vinyl Chloride	2316	6993851	<0.0008	<0.0008	NA	< 0.0008	123%	60%	140%	126%	60%	140%	96%	60%	140%
Bromomethane	2316	6993851	<0.001	<0.001	NA	< 0.001	127%	60%	140%	128%	60%	140%	76%	60%	140%
Chloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	123%	60%	140%	117%	60%	140%	103%	60%	140%
Trichlorofluoromethane	2316	6993851	<0.001	<0.001	NA	< 0.001	126%	60%	140%	116%	60%	140%	98%	60%	140%
Acetone	2316	6993851	<0.01	<0.01	NA	< 0.01	122%	60%	140%	101%	60%	140%	67%	60%	140%
1,1-Dichloroethylene	2316	6993851	<0.001	<0.001	NA	< 0.001	111%	60%	140%	111%	60%	140%	90%	60%	140%
Methylene Chloride	2316	6993851	<0.001	<0.001	NA	< 0.001	106%	60%	140%	102%	60%	140%	85%	60%	140%
Methyl tert-Butyl Ether	2316	6993851	<0.001	<0.001	NA	< 0.001	102%	60%	140%	107%	60%	140%	112%	60%	140%
Methyl Ethyl Ketone	2316	6993851	<0.01	<0.01	NA	< 0.01	99%	60%	140%	113%	60%	140%	104%	60%	140%
trans-1,2-Dichloroethylene	2316	6993851	<0.001	<0.001	NA	< 0.001	107%	60%	140%	105%	60%	140%	90%	60%	140%
1,1-Dichloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	116%	60%	140%	111%	60%	140%	80%	60%	140%
cis-1,2 Dichloroethylene	2316	6993851	<0.001	<0.001	NA	< 0.001	103%	60%	140%	100%	60%	140%	82%	60%	140%
Chloroform	2316	6993851	<0.001	<0.001	NA	< 0.001	103%	60%	140%	100%	60%	140%	81%	60%	140%
1,2-Dichloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	100%	60%	140%	100%	60%	140%	95%	60%	140%
1,1,1-Trichloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	106%	60%	140%	107%	60%	140%	98%	60%	140%
Carbon Tetrachloride	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	108%	60%	140%	110%	60%	140%	97%	60%	140%
Benzene	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	112%	60%	140%	114%	60%	140%	110%	60%	140%
1,2-Dichloropropane	2316	6993851	<0.001	<0.001	NA	< 0.001	108%	60%	140%	108%	60%	140%	108%	60%	140%
Trichloroethylene	2316	6993851	<0.001	<0.001	NA	< 0.001	115%	60%	140%	115%	60%	140%	110%	60%	140%
Bromodichloromethane	2316	6993851	<0.001	<0.001	NA	< 0.001	104%	60%	140%	108%	60%	140%	102%	60%	140%
trans-1,3-Dichloropropene	2316	6993851	<0.001	<0.001	NA	< 0.001	103%	60%	140%	110%	60%	140%	108%	60%	140%
Methyl Isobutyl Ketone	2316	6993851	<0.01	<0.01	NA	< 0.01	100%	60%	140%	103%	60%	140%	104%	60%	140%
cis-1,3-Dichloropropene	2316	6993851	<0.001	<0.001	NA	< 0.001	104%	60%	140%	109%	60%	140%	108%	60%	140%
1,1,2-Trichloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	108%	60%	140%	109%	60%	140%	106%	60%	140%
Toluene	2316	6993851	<0.0003	<0.0003	NA	< 0.0003	111%	60%	140%	113%	60%	140%	107%	60%	140%
2-Hexanone	2316	6993851	<0.01	<0.01	NA	< 0.01	110%	60%	140%	124%	60%	140%	120%	60%	140%
Dibromochloromethane	2316	6993851	<0.001	<0.001	NA	< 0.001	108%	60%	140%	111%	60%	140%	110%	60%	140%
Ethylene Dibromide	2316	6993851	<0.001	<0.001	NA	< 0.001	103%	60%	140%	107%	60%	140%	106%	60%	140%
Tetrachloroethene	2316	6993851	<0.001	<0.001	NA	< 0.001	123%	60%	140%	129%	60%	140%	117%	60%	140%
1,1,1,2-Tetrachloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	105%	60%	140%	106%	60%	140%	101%	60%	140%
Chlorobenzene	2316	6993851	<0.001	<0.001	NA	< 0.001	111%	60%	140%	112%	60%	140%	111%	60%	140%
Ethylbenzene	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	126%	60%	140%	125%	60%	140%	121%	60%	140%
m,p-Xylenes	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	123%	60%	140%	126%	60%	140%	118%	60%	140%
Bromoform	2316	6993851	<0.001	<0.001	NA	< 0.001	109%	60%	140%	112%	60%	140%	114%	60%	140%
Styrene	2316	6993851	<0.001	<0.001	NA	< 0.001	118%	60%	140%	119%	60%	140%	106%	60%	140%
1,1,2,2-Tetrachloroethane	2316	6993851	<0.001	<0.001	NA	< 0.001	113%	60%	140%	116%	60%	140%	110%	60%	140%
o-Xylene	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	118%	60%	140%	120%	60%	140%	110%	60%	140%
1,3-Dichlorobenzene	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	125%	60%	140%	124%	60%	140%	122%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430E15  
 SAMPLING SITE:

AGAT WORK ORDER: 15C021479  
 ATTENTION TO: Accouts Payable  
 SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 25, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	124%	60%	140%	126%	60%	140%	117%	60%	140%	
1,2-Dichlorobenzene	2316	6993851	<0.0005	<0.0005	NA	< 0.0005	119%	60%	140%	120%	60%	140%	113%	60%	140%	
1,2,4-Trichlorobenzene	2316	6993851	<0.001	<0.001	NA	< 0.001	118%	60%	140%	124%	60%	140%	114%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	1141	6993831	<0.0005	<0.0005	NA	< 0.0005	101%	80%	120%	87%	80%	120%	87%	70%	130%
Toluene	1141	6993831	<0.0003	<0.0003	NA	< 0.0003	118%	80%	120%	94%	80%	120%	122%	70%	130%
Ethylbenzene	1141	6993831	<0.0005	<0.0005	NA	< 0.0005	92%	80%	120%	91%	80%	120%	119%	70%	130%
Xylenes	1141	6993831	<0.0005	<0.0005	NA	< 0.0005	81%	80%	120%	90%	80%	120%	120%	70%	130%
C6 - C10 (F1)	1141	6993831	<0.1	<0.1	NA	< 0.1	89%	80%	120%	118%	80%	120%	91%	70%	130%
C10 - C16 (F2)	393	6998940	<0.1	<0.1	NA	< 0.1	89%	80%	120%	101%	80%	120%	107%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	648	6989093	<0.00005	<0.00005	NA	< 0.00005	86%	70%	130%	86%	70%	130%	95%	70%	130%
Quinoline	648	6989093	<0.0001	<0.0001	NA	< 0.0001	92%	70%	130%	111%	70%	130%	123%	70%	130%
2-Methylnaphthalene	648	6989093	0.00001	<0.00001	NA	< 0.00001	124%	70%	130%	103%	70%	130%	106%	70%	130%
Naphthalene	648	6989093	0.00003	0.00003	NA	< 0.00001	119%	70%	130%	103%	70%	130%	103%	70%	130%
Acenaphthylene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	105%	70%	130%	91%	70%	130%	99%	70%	130%
Acenaphthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	103%	70%	130%	105%	70%	130%
Fluorene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	109%	70%	130%	96%	70%	130%	98%	70%	130%
Phenanthrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	121%	70%	130%	108%	70%	130%	109%	70%	130%
Anthracene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	95%	70%	130%	100%	70%	130%
Fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	113%	70%	130%	105%	70%	130%	109%	70%	130%
Pyrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	121%	70%	130%	111%	70%	130%	111%	70%	130%
Benzo[a]anthracene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	117%	70%	130%	97%	70%	130%	105%	70%	130%
Chrysene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	112%	70%	130%	100%	70%	130%	102%	70%	130%
Benzo[b+j]fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	90%	70%	130%	92%	70%	130%	91%	70%	130%
Benzo[k]fluoranthene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	112%	70%	130%	92%	70%	130%	94%	70%	130%
Benzo[a]pyrene	648	6989093	< 0.000007	< 0.000007	NA	< 0.000007	90%	70%	130%	89%	70%	130%	87%	70%	130%
Indeno[1,2,3-cd]pyrene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	127%	70%	130%	98%	70%	130%	104%	70%	130%
Benzo[ghi]perylene	648	6989093	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	82%	70%	130%	94%	70%	130%
Dibenzo[ah]anthracene	648	6989093	< 0.000008	< 0.000008	NA	< 0.000008	128%	70%	130%	102%	70%	130%	114%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

  
 Certified By:

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021479

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C021479

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webearth.agatlabs.com

### Laboratory Use Only

Arrival Temperature: 9°C  
 AGAT Job Number: 15C021479

## Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

Date and Time: 15 SEP 21 17:38

**Report Information**

Company: Clifton Associates Ltd.  
 Contact: Daniel Budai  
 Address: 2222 - 30th Ave NE  
Calgary, AB T2E 7K9  
 Phone: (403) 223-6556 Fax: (403) 234-9033  
 LSD: \_\_\_\_\_  
 Client Project #: CG2430 E15

**Report Information**

1. Name: Daniel Budai  
 Email: daniel-budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark\_lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen-dabadie@clifton.ca

**Report Format**

Single Sample per Page  
 Multiple Samples per Page

**Turnaround Time Required (TAT)**

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

Date Required: \_\_\_\_\_

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

**Invoice To** Same Yes  No

Company: Sears Canada Inc  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2C3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/AFE#: CG2430 E15

**Requirements (Selection may impact detection limits)**

CCME  AB Tier 1  BC CSR

Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water

Other  D50 (Drilling)  SPIGEC

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/FI	IR	VCLs	PAHs	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) "potentially"
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT
6993827	1962	GW	Sept. 21/9:15	
831	1964		Sept. 21/9:00	
832	1972		Sept. 21/9:35	
833	1928-2		Sept. 21/9:55	
	1928-2		Sept. 21/9:55	
835	1978		Sept. 21/12:30	
837	1945		Sept. 21/12:15	
838	1939		Sept. 21/10:50	
840	9939		Sept. 21/10:50	
841	1942		Sept. 21/11:10	
843	9982		Sept. 21/11:10	

Samples Relinquished By (Print Name and Sign): Kebej Decker Kebej Doyker Date/Time: Sept 21/17:38

Samples Received By (Print Name and Sign): H. Menchawey Date/Time: Sept 21/2015

Samples Relinquished By (Print Name and Sign): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Received By (Print Name and Sign): \_\_\_\_\_ Date/Time: 5:38 pm

Samples Relinquished By (Print Name and Sign): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples Received By (Print Name and Sign): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Pink Copy - Client  
 Yellow Copy - AGAT  
 White Copy - AGAT

Page 1 of 2

Nº: AB **045175**



## Chain of Custody Record

P: 403.735.2005 • F: 403.735.2771

### Report to:

Company: Clifton Associates Same as COC#: 045175

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/F1-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N)
60943844	1956-2	GW	Sept. 21/13:45		4													
<del>845</del>	1956-2		Sept. 21/13:45		1													
845	1951		Sept. 21/12:40		4													
846	1946		Sept. 21/12:55		4													
848	1947		Sept. 21/13:15		3													
851	Trip Blank 9		Sept. 21		3													

15 SEP-21 17:38  
KCO21479  
98

Samples Relinquished By (Print Name and Sign): <u>Kelsey Deeper Kelsey Deeper</u>	Date/Time: <u>Sept. 21/17:38</u>	Samples Received By (Print Name and Sign): <u>H. Mendonca</u>	Date/Time: <u>Sept. 21/2015</u>	Pink Copy - Client	Page <u>2</u> of <u>2</u>
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time: <u>5:38 pm</u>	Yellow Copy - AGAT	Nº: AB <b>011078</b> A
Samples Relinquished By (Print Name and Sign):	Date/Time:	Samples Received By (Print Name and Sign):	Date/Time:	White Copy - AGAT	



# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

**RECEIVING BASICS - Shipping**

Company/Consultant: Sears / Clifton

Courier: D/D Prepaid Collect

Waybill# -

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: -

Custody Seal Intact: Yes No NA

TAT: <24hr 24-48hr 48-72hr Reg Other \_\_\_\_\_

Cooler Quantity: 1

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes No

Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity , Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* , Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry Oct. 05 / 2015

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES NO Precaution Taken: \_\_\_\_\_

Legal Samples: Yes No

International Samples: Yes No

Tape Sealed: Yes No

Coolant Used: Icepack Bagged Ice Free Ice Free Water None

**Temperature (Bottles/Jars only) N/A if only Soil Bags Received**

**FROZEN (Please Circle if samples received Frozen)**

1 (Bottle/Jar) 9+9+9=9 °C 2(Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

3 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 4 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

5 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 6 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

7 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 8 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

9 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C 10 (Bottle/Jar) \_\_\_+\_\_\_+\_\_\_=\_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

Workorder No: 15C 021479

Samples Damaged: Yes No If YES why?

No Bubble Wrap Frozen Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Subcontracted Analysis (See CPM)



CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accouts Payable

PROJECT: CG2430E15

AGAT WORK ORDER: 15C022072

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Sep 28, 2015

PAGES (INCLUDING COVER): 15

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION:		1980	1930	1981	1954	1937	1977	1922-2	Bailer 1
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015
Benzene	mg/L	0.0005	<0.0005	0.0660	0.0018	0.0065	0.0026	0.0028	0.0010	<0.0005	
Toluene	mg/L	0.0003	<0.0003	0.0018	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Xylenes	mg/L	0.0005	<0.0005	0.0958	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
C6 - C10 (F1)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
C6 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
C10 - C16 (F2)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150	106	106	102	105	104	106	110	78	
o-Terphenyl (F2)	%	50-150	97	95	97	95	96	96	96	96	
		SAMPLE DESCRIPTION:		Bailer 2	Hydra 1	Hydra 2	Hydra 3				
		SAMPLE TYPE:		Water	Water	Water	Water				
		DATE SAMPLED:		9/22/2015	9/22/2015	9/22/2015	9/22/2015				
Parameter	Unit	G / S	RDL	6999984	6999985	6999988	6999989				
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003				
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
C6 - C10 (F1)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
C6 - C10 (F1 minus BTEX)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
C10 - C16 (F2)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150	73	104	107	103					
o-Terphenyl (F2)	%	50-150	96	95	95	95					

Certified By:

*Elena Gorobets*



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6999971-6999989 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
The C6 - C10 fraction is calculated from the FID toluene response factor.  
The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
C6 - C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
C>10 - C16 (F2- Napthalene) is a calculated parameter. The calculated value is F2 - Napthalene (if requested).  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*

# Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

 2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

## Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION:		Bailer 1	Hydra 1
		G / S	RDL	6999981	6999985
Acridine	mg/L	0.00005	<0.00005	<0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	0.00002	0.00002	0.00002
Naphthalene	mg/L	0.00001	0.00005	0.00004	0.00004
Acenaphthylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits			
2-Fluorobiphenyl (PAH)	%	50-150	107	104	
p-Terphenyl-d14 (PAH)	%	50-150	123	120	


Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6999981-6999985 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

B[a]P TPE is a calculated parameter. It is calculated according to the Alberta Tier 1 Soil and Groundwater remediation Guidelines, May 23, 2014. Note that if the analysis returns non-detects for a parameter, ½ the detection limit is entered into the formulas.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION: Trip Blank 10		1980	1930	1981	1954	1937	1977	1922-2	
		SAMPLE TYPE: Water		Water	Water	Water	Water	Water	Water	Water	
		DATE SAMPLED: 9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	
		G / S	RDL	6999968	6999971	6999972	6999974	6999975	6999976	6999978	6999979
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	0.015	0.001	0.002	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	<0.0005	0.0660	0.0018	0.0065	0.0026	0.0028	0.0010	0.0010
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	<0.0003	0.0018	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION: Trip Blank 10		1980	1930	1981	1954	1937	1977	1922-2
		G / S	RDL	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L	0.0005	<0.0005	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	<0.0005	<0.0005	0.0947	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	<0.0005	<0.0005	0.0958	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits								
Toluene-d8	%	50-150	88	84	95	83	80	81	80	80

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION:		Bailer 1	Bailer 2	Hydra 1	Hydra 2	Hydra 3
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015
	G / S	RDL	6999981	6999984	6999985	6999988	6999989	
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	0.004	0.004	0.004	0.004	0.004	0.004
1,2-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-22

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION:		Bailer 1	Bailer 2	Hydra 1	Hydra 2	Hydra 3
		G / S	RDL	6999981	6999984	6999985	6999988	6999989
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
m,p-Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Surrogate	Unit	Acceptable Limits						
Toluene-d8	%	50-150		77	79	78	87	77

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6999968-6999989 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*



## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis															
RPT Date: Sep 28, 2015			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Volatle Organic Compounds in Water**

Chloromethane	2317	6999988	<0.001	<0.001	NA	< 0.001	106%	60%	140%	110%	60%	140%	105%	60%	140%
Vinyl Chloride	2317	6999988	<0.0008	<0.0008	NA	< 0.0008	113%	60%	140%	117%	60%	140%	113%	60%	140%
Bromomethane	2317	6999988	<0.001	<0.001	NA	< 0.001	128%	60%	140%	121%	60%	140%	129%	60%	140%
Chloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	127%	60%	140%	119%	60%	140%	125%	60%	140%
Trichlorofluoromethane	2317	6999988	<0.001	<0.001	NA	< 0.001	122%	60%	140%	122%	60%	140%	118%	60%	140%
Acetone	2317	6999988	<0.01	<0.01	NA	< 0.01	123%	60%	140%	124%	60%	140%	91%	60%	140%
1,1-Dichloroethylene	2317	6999988	<0.001	<0.001	NA	< 0.001	111%	60%	140%	112%	60%	140%	109%	60%	140%
Methylene Chloride	2317	6999988	<0.001	<0.001	NA	< 0.001	108%	60%	140%	107%	60%	140%	107%	60%	140%
Methyl tert-Butyl Ether	2317	6999988	<0.001	<0.001	NA	< 0.001	100%	60%	140%	89%	60%	140%	88%	60%	140%
Methyl Ethyl Ketone	2317	6999988	<0.01	<0.01	NA	< 0.01	123%	60%	140%	115%	60%	140%	101%	60%	140%
trans-1,2-Dichloroethylene	2317	6999988	<0.001	<0.001	NA	< 0.001	105%	60%	140%	109%	60%	140%	107%	60%	140%
1,1-Dichloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	113%	60%	140%	115%	60%	140%	113%	60%	140%
cis-1,2 Dichloroethylene	2317	6999988	<0.001	<0.001	NA	< 0.001	97%	60%	140%	104%	60%	140%	102%	60%	140%
Chloroform	2317	6999988	0.004	0.004	NA	< 0.001	103%	60%	140%	104%	60%	140%	103%	60%	140%
1,2-Dichloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	100%	60%	140%	101%	60%	140%	100%	60%	140%
1,1,1-Trichloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	103%	60%	140%	106%	60%	140%	105%	60%	140%
Carbon Tetrachloride	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	107%	60%	140%	110%	60%	140%	106%	60%	140%
Benzene	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	116%	60%	140%	111%	60%	140%	111%	60%	140%
1,2-Dichloropropane	2317	6999988	<0.001	<0.001	NA	< 0.001	109%	60%	140%	104%	60%	140%	108%	60%	140%
Trichloroethylene	2317	6999988	<0.001	<0.001	NA	< 0.001	113%	60%	140%	110%	60%	140%	112%	60%	140%
Bromodichloromethane	2317	6999988	<0.001	<0.001	NA	< 0.001	103%	60%	140%	101%	60%	140%	103%	60%	140%
trans-1,3-Dichloropropene	2317	6999988	<0.001	<0.001	NA	< 0.001	99%	60%	140%	111%	60%	140%	107%	60%	140%
Methyl Isobutyl Ketone	2317	6999988	<0.01	<0.01	NA	< 0.01	91%	60%	140%	100%	60%	140%	105%	60%	140%
cis-1,3-Dichloropropene	2317	6999988	<0.001	<0.001	NA	< 0.001	102%	60%	140%	109%	60%	140%	110%	60%	140%
1,1,2-Trichloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	104%	60%	140%	106%	60%	140%	110%	60%	140%
Toluene	2317	6999988	<0.0003	<0.0003	NA	< 0.0003	110%	60%	140%	110%	60%	140%	110%	60%	140%
2-Hexanone	2317	6999988	<0.01	<0.01	NA	< 0.01	118%	60%	140%	109%	60%	140%	113%	60%	140%
Dibromochloromethane	2317	6999988	<0.001	<0.001	NA	< 0.001	109%	60%	140%	107%	60%	140%	109%	60%	140%
Ethylene Dibromide	2317	6999988	<0.001	<0.001	NA	< 0.001	105%	60%	140%	103%	60%	140%	105%	60%	140%
Tetrachloroethene	2317	6999988	<0.001	<0.001	NA	< 0.001	125%	60%	140%	125%	60%	140%	124%	60%	140%
1,1,1,2-Tetrachloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	102%	60%	140%	101%	60%	140%	104%	60%	140%
Chlorobenzene	2317	6999988	<0.001	<0.001	NA	< 0.001	107%	60%	140%	109%	60%	140%	111%	60%	140%
Ethylbenzene	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	122%	60%	140%	125%	60%	140%	127%	60%	140%
m,p-Xylenes	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	116%	60%	140%	122%	60%	140%	123%	60%	140%
Bromoform	2317	6999988	<0.001	<0.001	NA	< 0.001	109%	60%	140%	109%	60%	140%	112%	60%	140%
Styrene	2317	6999988	<0.001	<0.001	NA	< 0.001	111%	60%	140%	118%	60%	140%	118%	60%	140%
1,1,2,2-Tetrachloroethane	2317	6999988	<0.001	<0.001	NA	< 0.001	111%	60%	140%	110%	60%	140%	114%	60%	140%
o-Xylene	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	112%	60%	140%	117%	60%	140%	117%	60%	140%
1,3-Dichlorobenzene	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	123%	60%	140%	125%	60%	140%	124%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC  
 PROJECT: CG2430E15  
 SAMPLING SITE:

AGAT WORK ORDER: 15C022072  
 ATTENTION TO: Accouts Payable  
 SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date: Sep 28, 2015			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,4-Dichlorobenzene	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	120%	60%	140%	126%	60%	140%	126%	60%	140%	
1,2-Dichlorobenzene	2317	6999988	<0.0005	<0.0005	NA	< 0.0005	113%	60%	140%	121%	60%	140%	119%	60%	140%	
1,2,4-Trichlorobenzene	2317	6999988	<0.001	<0.001	NA	< 0.001	113%	60%	140%	124%	60%	140%	107%	60%	140%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

Benzene	1144	6999971	<0.0005	<0.0005	NA	< 0.0005	87%	80%	120%	86%	80%	120%	87%	70%	130%
Toluene	1144	6999971	<0.0003	<0.0003	NA	< 0.0003	92%	80%	120%	92%	80%	120%	91%	70%	130%
Ethylbenzene	1144	6999971	<0.0005	<0.0005	NA	< 0.0005	90%	80%	120%	91%	80%	120%	88%	70%	130%
Xylenes	1144	6999971	<0.0005	<0.0005	NA	< 0.0005	89%	80%	120%	90%	80%	120%	89%	70%	130%
C6 - C10 (F1)	1144	6999971	<0.1	<0.1	NA	< 0.1	89%	80%	120%	106%	80%	120%	80%	70%	130%
C10 - C16 (F2)	396	6998375	<0.1	<0.1	NA	< 0.1	90%	80%	120%	104%	80%	120%	100%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	651	6999770	< 0.00005	< 0.00005	NA	< 0.00005	86%	70%	130%	98%	70%	130%	101%	70%	130%
Quinoline	651	6999770	< 0.0001	< 0.0001	NA	< 0.0001	89%	70%	130%	104%	70%	130%	111%	70%	130%
2-Methylnaphthalene	651	6999770	0.00001	0.00001	NA	< 0.00001	99%	70%	130%	105%	70%	130%	104%	70%	130%
Naphthalene	651	6999770	0.00002	0.00002	NA	< 0.00001	91%	70%	130%	103%	70%	130%	103%	70%	130%
Acenaphthylene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	121%	70%	130%	101%	70%	130%	103%	70%	130%
Acenaphthene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	126%	70%	130%	106%	70%	130%	108%	70%	130%
Fluorene	651	6999770	0.00027	0.00022	20.0%	< 0.00001	113%	70%	130%	99%	70%	130%	100%	70%	130%
Phenanthrene	651	6999770	0.00002	0.00001	NA	< 0.00001	121%	70%	130%	109%	70%	130%	109%	70%	130%
Anthracene	651	6999770	< 0.000010	< 0.000010	NA	< 0.000010	119%	70%	130%	112%	70%	130%	104%	70%	130%
Fluoranthene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	114%	70%	130%	106%	70%	130%	110%	70%	130%
Pyrene	651	6999770	0.00002	0.00001	NA	< 0.00001	128%	70%	130%	120%	70%	130%	124%	70%	130%
Benzo[a]anthracene	651	6999770	< 0.000010	< 0.000010	NA	< 0.000010	126%	70%	130%	104%	70%	130%	109%	70%	130%
Chrysene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	114%	70%	130%	95%	70%	130%	97%	70%	130%
Benzo[b+j]fluoranthene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	91%	70%	130%	86%	70%	130%	89%	70%	130%
Benzo[k]fluoranthene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	116%	70%	130%	91%	70%	130%	95%	70%	130%
Benzo[a]pyrene	651	6999770	< 0.000007	< 0.000007	NA	< 0.000007	94%	70%	130%	86%	70%	130%	88%	70%	130%
Indeno[1,2,3-cd]pyrene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	116%	70%	130%	85%	70%	130%	92%	70%	130%
Benzo[ghi]perylene	651	6999770	< 0.00001	< 0.00001	NA	< 0.00001	120%	70%	130%	82%	70%	130%	82%	70%	130%
Dibenzo[ah]anthracene	651	6999770	< 0.000008	< 0.000008	NA	< 0.000008	126%	70%	130%	85%	70%	130%	91%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

  
 Certified By:

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C022072

PROJECT: CG2430E15

ATTENTION TO: Accouts Payable

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS



# AGAT Laboratories

2910 12 Street NE  
 Calgary, Alberta T2E 7P7  
 P: 403.735.2005 • F: 403.735.2771  
 webeearth.agatiabs.com

## Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates Ltd.  
 Contact: Daniel Buddi  
 Address: 2222 - 30th Ave. NE  
Calgary AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 264-9033  
 LSD: \_\_\_\_\_  
 Client Project #: G2430 EIS

### Report Information

1. Name: Daniel Buddi  
 Email: daniel\_buddi@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark\_lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen\_dabadie@clifton.ca

### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  D50 (Drilling)  SPIGEC

### Invoice To

Company: Sears Canada Inc. Same Yes  No   
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2G3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/A/E#: G2430 EIS

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT
696668 971	Trip Blank 10 1970	Water GW	Sept. 22/2015	
972	1930		Sept. 22/11:50	
975	1981		Sept. 22/9:45	
976	1954		Sept. 22/10:25	
977	1937		Sept. 22/10:40	
978	1977		Sept. 22/11:30	
979	1922-2		Sept. 22/12:10	
980	Bailer 1	Water	Sept. 22/12:25	
981	Bailer 1		Sept. 22/12:25	
982	Bailer 2		Sept. 22/12:35	
Samples Relinquished By (Print Name and Sign): <u>Kelsey Decker</u> <u>Feb 22/18/17</u> Samples Relinquished By (Print Name and Sign): <u>Kelsey Decker</u> <u>Sept 22/18/17</u> Samples Relinquished By (Print Name and Sign): _____ Samples Relinquished By (Print Name and Sign): _____				

### Report Format

Single Sample per Page  
 Multiple Samples per Page

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

Date Required: \_\_\_\_\_

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT. THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

### Laboratory Use Only

Arrival Temperature: 10°C  
 AGAT Job Number: 15202072

Date and Time: 15 SEP-22 18:47

# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BC Landfill	Hold for 60 days	Preserved (Y/N)	Contaminated/Hazardous (Y/N)
3												
4												
4												
4												
4												
4												
4												
4												
1												
4												

Page 1 of 2  
 Pink Copy - Client  
 Yellow Copy - AGAT  
 White Copy - AGAT  
 Date/Time: Sept. 22/2015  
 Date/Time: C. 6:47 pm  
 Date/Time: \_\_\_\_\_  
 N<sup>o</sup>. AB **045655**

2910 12 Street NE  
Calgary, Alberta  
T2E 7P7  
webearth.agatlabs.com

# AGAT Laboratories

Chain of Custody Record  
P: 403.735.2005 • F: 403.735.2774

Report to: Clifton Associates  
Company: Clifton Associates  
Same as COC#: 045655

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT
66685	Hydral	water	Sept. 22 / 12:16	
988	Hydral	↓	Sept. 22 / 12:40	
989	Hydral 2		Sept. 22 / 12:45	
	Hydral 3		Sept. 22 / 12:50	

# OF CONTAINERS	57-5
Detailed Soil Salinity (Saturated Paste)	
CMC BTEX/F1-F4	
Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	
Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg	
Routine Water Potability	
AB Class 2 Landfill	
BC Landfill	
D50 Detailed Soil Salinity (As Received)	
Microtox	
BTEX3/VP/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	
BTEX/F1	✓
F2	✓
F3	✓
F4	✓
F5	✓
F6	✓
F7	✓
F8	✓
F9	✓
F10	✓
F11	✓
F12	✓
F13	✓
F14	✓
F15	✓
F16	✓
F17	✓
F18	✓
F19	✓
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F290	✓
F291	✓
F292	✓
F293	✓
F294	✓
F295	✓
F296	✓
F297	✓
F298	✓
F299	✓
F300	✓

15 SEP-22 10:47  
10 °C  
1500000  
CONTAMINATED/HAZARDOUS (Y/N)  
PRESERVED (Y/N)  
HOLD FOR 60 DAYS

Samples Requisitioned By (Print Name and Sign): Kelsey Decker Date/Time: Sept. 22/18:47  
 Samples Requisitioned By (Print Name and Sign): H. Menchavez Date/Time: Sept. 22/18:47  
 Samples Requisitioned By (Print Name and Sign): Kelsey Decker Date/Time: Sept. 22/18:47  
 Samples Requisitioned By (Print Name and Sign): H. Menchavez Date/Time: Sept. 22/18:47

Pink Copy - Client  
 Yellow Copy - AGAT  
 White Copy - AGAT

Page 2 of 2  
 N°: AB **005056**  
 A

# SAMPLE INTEGRITY RECEIPT FORM

# AGAT Laboratories

**Temperature** (Bottles/Jars only) N/A if only Soil Bags Received

**FROZEN** (Please Circle if samples received Frozen)

1 (Bottle/Jar) 10 + 10 = 10 °C    2 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

3 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C    4 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

5 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C    6 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

7 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C    8 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

9 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C    10 (Bottle/Jar) \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

**LOGISTICS USE ONLY**

**Workorder No:** 1506022

**Samples Damaged:** Yes No If YES why?  
 No Bubble Wrap    Frozen    Courier

Other: \_\_\_\_\_

Account Project Manager: \_\_\_\_\_ have they been notified of the above issues: Yes No

Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_

CPM Initial \_\_\_\_\_

General Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**RECEIVING BASICS - Shipping**

Company/Consultant: Sears Canada / Clifton

Courier: DPO    Prepaid    Collect

Waybill# \_\_\_\_\_

Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: ✓

Custody Seal Intact: Yes No NA

TAT: <24hr 24-48hr 48-72hr Reg Other \_\_\_\_\_

Cooler Quantity: 1

**TIME SENSITIVE ISSUES - Shipping**

ALREADY EXCEEDED HOLD TIME? Yes No

Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity , Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* , Chloroamines\*

Earliest Expiry: \_\_\_\_\_

Hydrocarbons: Earliest Expiry Oct. 06/2015

**SAMPLE INTEGRITY - Shipping**

Hazardous Samples: YES NO Precaution Taken: \_\_\_\_\_

Legal Samples: Yes No

International Samples: Yes No

Tape Sealed: Yes No

Coolant Used: Icepack Bagged Ice Free Ice Free Water None

\* Subcontracted Analysis (See CPM)

CLIENT NAME: SEARS CANADA INC  
290 YONGE STREET, SUITE 700  
TORONTO, ON M5B2C3  
(416) 941-2346

ATTENTION TO: Accounts

PROJECT: CG2430E15

AGAT WORK ORDER: 15C023619

TRACE ORGANICS REVIEWED BY: Elena Gorobets, Senior Analyst

DATE REPORTED: Oct 01, 2015

PAGES (INCLUDING COVER): 11

VERSION\*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

\*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Petroleum Hydrocarbons (BTEX/F1-F2) in Water

DATE RECEIVED: 2015-09-24

DATE REPORTED: 2015-09-29

Parameter	Unit	SAMPLE DESCRIPTION:		1928-3	1956-3
		G / S	RDL	7016975	7016977
Benzene	mg/L		0.0005	2.57	2.90
Toluene	mg/L		0.0003	0.0029	0.256
Ethylbenzene	mg/L		0.0005	0.0010	0.0540
Xylenes	mg/L		0.0005	0.0518	0.195
C6 - C10 (F1)	mg/L		0.1	2.6	3.4
C6 - C10 (F1 minus BTEX)	mg/L		0.1	<0.1	<0.1
C10 - C16 (F2)	mg/L		0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits			
Toluene-d8 (BTEX)	%		50-150	91	92
o-Terphenyl (F2)	%		50-150	93	91

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7016975-7016977 The F1 (C6 - C10) fraction is determined by integrating the FID chromatogram from the beginning of the nC6 peak to the apex of the last nC10 peak.  
 The C6 - C10 fraction is calculated from the FID toluene response factor.  
 The F2 (C10 - C16) fraction is determined by integrating the FID chromatogram from the apex of the nC10 peak to the apex of the nC16 peak.  
 The F2 (C10 - C16) fraction is calculated using the average response factor for nC10, nC16, and nC34.  
 Quality control for the calibration follows the guidelines set out in the CCME Contaminated Sites Method for Soils.  
 C6 - C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
 C>10 - C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene (if requested).  
 Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.  
 Extraction and holding times were met for this sample.

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Polyaromatic Hydrocarbon Analysis - Water FWAL

DATE RECEIVED: 2015-09-24

DATE REPORTED: 2015-09-30

Parameter	Unit	SAMPLE DESCRIPTION:		1928-3	1956-3
		G / S	RDL	7016975	7016977
Acridine	mg/L	0.00005	<0.00005	<0.00005	<0.00005
Quinoline	mg/L	0.0001	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Naphthalene	mg/L	0.00001	0.00001	0.00002	0.00002
Acenaphthylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Acenaphthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Fluorene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Phenanthrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]anthracene	mg/L	0.000010	<0.000010	<0.000010	<0.000010
Chrysene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[b+j]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[k]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[a]pyrene	mg/L	0.000007	<0.000007	<0.000007	<0.000007
Indeno[1,2,3-cd]pyrene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Benzo[ghi]perylene	mg/L	0.00001	<0.00001	<0.00001	<0.00001
Dibenzo[ah]anthracene	mg/L	0.000008	<0.000008	<0.000008	<0.000008
B[a]P TPE	mg/L	0.0000096	0.0000096	0.0000096	0.0000096
Surrogate	Unit	Acceptable Limits			
2-Fluorobiphenyl (PAH)	%	50-150	107	106	
p-Terphenyl-d14 (PAH)	%	50-150	128	128	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7016975-7016977 Based on GC/MS target ion analysis.

Isomers Benzo(b)fluoranthene and Benzo(j)fluoranthene have the same GC retention time and are reported as the sum based on the Benzo(b)fluoranthene response.

B[a]P TPE is a calculated parameter. It is calculated according to the Alberta Tier 1 Soil and Groundwater remediation Guidelines, May 23, 2014. Note that if the analysis returns non-detects for a parameter, 1/2 the detection limit is entered into the formulas.

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

2910 12TH STREET NE  
CALGARY, ALBERTA  
CANADA T2E 7P7  
TEL (403)735-2005  
FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-24

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	Trip Blank II	1928-3	1956-3
				Water	Water	Water
				9/24/2015	9/24/2015	9/24/2015
				7016965	7016975	7016977
Chloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	mg/L	0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Bromomethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Acetone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	0.001	<0.001	0.001	0.002	0.002
Methyl tert-Butyl Ether	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl Ethyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
trans-1,2-Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2 Dichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.001	<0.001	0.208	0.057	0.057
1,1,1-Trichloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	mg/L	0.0005	<0.0005	2.57	2.90	2.90
1,2-Dichloropropane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Methyl Isobutyl Ketone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
cis-1,3-Dichloropropene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	mg/L	0.001	<0.001	0.002	<0.001	<0.001
Toluene	mg/L	0.0003	<0.0003	0.0029	0.256	0.256
2-Hexanone	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001

Certified By:

*Elena Gorobets*



## Certificate of Analysis

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

2910 12TH STREET NE  
 CALGARY, ALBERTA  
 CANADA T2E 7P7  
 TEL (403)735-2005  
 FAX (403)735-2771  
<http://www.agatlabs.com>

CLIENT NAME: SEARS CANADA INC

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Volatile Organic Compounds in Water

DATE RECEIVED: 2015-09-24

DATE REPORTED: 2015-09-28

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	Trip Blank II	1928-3	1956-3
				Water	Water	Water
				9/24/2015	9/24/2015	9/24/2015
				7016965	7016975	7016977
1,1,1,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.0005	<0.0005	0.0010	0.0540	
m,p-Xylenes	mg/L	0.0005	<0.0005	0.0070	0.0660	
Bromoform	mg/L	0.001	<0.001	<0.001	<0.001	
Styrene	mg/L	0.001	<0.001	<0.001	<0.001	
1,1,2,2-Tetrachloroethane	mg/L	0.001	<0.001	<0.001	<0.001	
o-Xylene	mg/L	0.0005	<0.0005	0.0448	0.129	
1,3-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	
1,4-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	
1,2-Dichlorobenzene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	
1,2,4-Trichlorobenzene	mg/L	0.001	<0.001	<0.001	<0.001	
Xylenes	mg/L	0.0005	<0.0005	0.0518	0.195	
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-150	87	119	104	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7016965-7016977 1,1,2,2-Tetrachloroethane reported only for samples matrices which can be purged. Otherwise N/A.

Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylenes + o-Xylene.

Certified By:

*Elena Gorobets*

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis															
RPT Date:			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

**Petroleum Hydrocarbons (BTEX/F1-F2) in Water**

Benzene	2178	7016723	<0.0005	<0.0005	NA	< 0.0005	116%	80%	120%	115%	80%	120%	115%	70%	130%
Toluene	2178	7016723	<0.0003	<0.0003	NA	< 0.0003	106%	80%	120%	101%	80%	120%	100%	70%	130%
Ethylbenzene	2178	7016723	<0.0005	<0.0005	NA	< 0.0005	100%	80%	120%	98%	80%	120%	96%	70%	130%
Xylenes	2178	7016723	<0.0005	<0.0005	NA	< 0.0005	106%	80%	120%	97%	80%	120%	96%	70%	130%
C6 - C10 (F1)	2178	7016723	<0.1	<0.1	NA	< 0.1	90%	80%	120%	97%	80%	120%	77%	70%	130%
C10 - C16 (F2)	399	7008891	<0.1	<0.1	NA	< 0.1	109%	80%	120%	105%	80%	120%	101%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

**Volatile Organic Compounds in Water**

Chloromethane	2318	7008595	<0.001	<0.001	NA	< 0.001	111%	60%	140%	109%	60%	140%	109%	60%	140%
Vinyl Chloride	2318	7008595	<0.0008	<0.0008	NA	< 0.0008	129%	60%	140%	115%	60%	140%	109%	60%	140%
Bromomethane	2318	7008595	<0.001	<0.001	NA	< 0.001	130%	60%	140%	119%	60%	140%	125%	60%	140%
Chloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	129%	60%	140%	120%	60%	140%	123%	60%	140%
Trichlorofluoromethane	2318	7008595	<0.001	<0.001	NA	< 0.001	115%	60%	140%	117%	60%	140%	108%	60%	140%
Acetone	2318	7008595	<0.01	<0.01	NA	< 0.01	127%	60%	140%	123%	60%	140%	97%	60%	140%
1,1-Dichloroethylene	2318	7008595	<0.001	<0.001	NA	< 0.001	102%	60%	140%	108%	60%	140%	106%	60%	140%
Methylene Chloride	2318	7008595	<0.001	<0.001	NA	< 0.001	104%	60%	140%	106%	60%	140%	103%	60%	140%
Methyl tert-Butyl Ether	2318	7008595	<0.001	<0.001	NA	< 0.001	91%	60%	140%	96%	60%	140%	97%	60%	140%
Methyl Ethyl Ketone	2318	7008595	<0.01	<0.01	NA	< 0.01	87%	60%	140%	102%	60%	140%	106%	60%	140%
trans-1,2-Dichloroethylene	2318	7008595	<0.001	<0.001	NA	< 0.001	96%	60%	140%	105%	60%	140%	104%	60%	140%
1,1-Dichloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	108%	60%	140%	115%	60%	140%	114%	60%	140%
cis-1,2 Dichloroethylene	2318	7008595	<0.001	<0.001	NA	< 0.001	88%	60%	140%	102%	60%	140%	100%	60%	140%
Chloroform	2318	7008595	<0.001	<0.001	NA	< 0.001	100%	60%	140%	103%	60%	140%	102%	60%	140%
1,2-Dichloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	97%	60%	140%	103%	60%	140%	102%	60%	140%
1,1,1-Trichloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	99%	60%	140%	105%	60%	140%	101%	60%	140%
Carbon Tetrachloride	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	98%	60%	140%	103%	60%	140%	103%	60%	140%
Benzene	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	113%	60%	140%	111%	60%	140%	110%	60%	140%
1,2-Dichloropropane	2318	7008595	<0.001	<0.001	NA	< 0.001	111%	60%	140%	113%	60%	140%	110%	60%	140%
Trichloroethylene	2318	7008595	<0.001	<0.001	NA	< 0.001	129%	60%	140%	116%	60%	140%	106%	60%	140%
Bromodichloromethane	2318	7008595	<0.001	<0.001	NA	< 0.001	105%	60%	140%	106%	60%	140%	106%	60%	140%
trans-1,3-Dichloropropene	2318	7008595	<0.001	<0.001	NA	< 0.001	96%	60%	140%	105%	60%	140%	108%	60%	140%
Methyl Isobutyl Ketone	2318	7008595	<0.01	<0.01	NA	< 0.01	90%	60%	140%	100%	60%	140%	115%	60%	140%
cis-1,3-Dichloropropene	2318	7008595	<0.001	<0.001	NA	< 0.001	99%	60%	140%	109%	60%	140%	107%	60%	140%
1,1,2-Trichloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	106%	60%	140%	106%	60%	140%	111%	60%	140%
Toluene	2318	7008595	<0.0003	<0.0003	NA	< 0.0003	111%	60%	140%	111%	60%	140%	107%	60%	140%
2-Hexanone	2318	7008595	<0.01	<0.01	NA	< 0.01	94%	60%	140%	106%	60%	140%	117%	60%	140%
Dibromochloromethane	2318	7008595	<0.001	<0.001	NA	< 0.001	102%	60%	140%	109%	60%	140%	112%	60%	140%
Ethylene Dibromide	2318	7008595	<0.001	<0.001	NA	< 0.001	99%	60%	140%	103%	60%	140%	107%	60%	140%
Tetrachloroethene	2318	7008595	<0.001	<0.001	NA	< 0.001	123%	60%	140%	120%	60%	140%	115%	60%	140%

## Quality Assurance

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

### Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1,1,2-Tetrachloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	103%	60%	140%	104%	60%	140%	104%	60%	140%
Chlorobenzene	2318	7008595	<0.001	<0.001	NA	< 0.001	111%	60%	140%	109%	60%	140%	107%	60%	140%
Ethylbenzene	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	119%	60%	140%	125%	60%	140%	122%	60%	140%
m,p-Xylenes	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	114%	60%	140%	121%	60%	140%	119%	60%	140%
Bromoform	2318	7008595	<0.001	<0.001	NA	< 0.001	113%	60%	140%	111%	60%	140%	117%	60%	140%
Styrene	2318	7008595	<0.001	<0.001	NA	< 0.001	104%	60%	140%	115%	60%	140%	116%	60%	140%
1,1,2,2-Tetrachloroethane	2318	7008595	<0.001	<0.001	NA	< 0.001	118%	60%	140%	114%	60%	140%	120%	60%	140%
o-Xylene	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	115%	60%	140%	118%	60%	140%	115%	60%	140%
1,3-Dichlorobenzene	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	108%	60%	140%	116%	60%	140%	119%	60%	140%
1,4-Dichlorobenzene	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	113%	60%	140%	116%	60%	140%	120%	60%	140%
1,2-Dichlorobenzene	2318	7008595	<0.0005	<0.0005	NA	< 0.0005	110%	60%	140%	112%	60%	140%	117%	60%	140%
1,2,4-Trichlorobenzene	2318	7008595	<0.001	<0.001	NA	< 0.001	88%	60%	140%	98%	60%	140%	117%	60%	140%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

#### Polyaromatic Hydrocarbon Analysis - Water FWAL

Acridine	658	7016977	<0.00005	<0.00005	NA	< 0.00005	72%	70%	130%	83%	70%	130%	77%	70%	130%
Quinoline	658	7016977	<0.0001	<0.0001	NA	< 0.0001	88%	70%	130%	91%	70%	130%	100%	70%	130%
2-Methylnaphthalene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	115%	70%	130%	95%	70%	130%	103%	70%	130%
Naphthalene	658	7016977	0.00002	0.00001	NA	< 0.00001	113%	70%	130%	93%	70%	130%	102%	70%	130%
Acenaphthylene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	101%	70%	130%	93%	70%	130%	104%	70%	130%
Acenaphthene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	111%	70%	130%	96%	70%	130%	106%	70%	130%
Fluorene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	103%	70%	130%	91%	70%	130%	103%	70%	130%
Phenanthrene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	116%	70%	130%	102%	70%	130%	111%	70%	130%
Anthracene	658	7016977	<0.00001	<0.00001	NA	< 0.000010	108%	70%	130%	99%	70%	130%	109%	70%	130%
Fluoranthene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	103%	70%	130%	102%	70%	130%	114%	70%	130%
Pyrene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	118%	70%	130%	129%	70%	130%	112%	70%	130%
Benzo[a]anthracene	658	7016977	<0.00001	<0.00001	NA	< 0.000010	102%	70%	130%	100%	70%	130%	113%	70%	130%
Chrysene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	110%	70%	130%	98%	70%	130%	106%	70%	130%
Benzo[b+j]fluoranthene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	87%	70%	130%	84%	70%	130%	91%	70%	130%
Benzo[k]fluoranthene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	113%	70%	130%	98%	70%	130%	104%	70%	130%
Benzo[a]pyrene	658	7016977	< 0.000007	< 0.000007	NA	< 0.000007	95%	70%	130%	88%	70%	130%	92%	70%	130%
Indeno[1,2,3-cd]pyrene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	126%	70%	130%	89%	70%	130%	107%	70%	130%
Benzo[ghi]perylene	658	7016977	<0.00001	<0.00001	NA	< 0.00001	106%	70%	130%	84%	70%	130%	86%	70%	130%
Dibenzo[ah]anthracene	658	7016977	< 0.000008	< 0.000008	NA	< 0.000008	123%	70%	130%	96%	70%	130%	101%	70%	130%

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By: *Elena Gorobets*

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0332	EPA 8260-W	GC/MS
Toluene	TO 0332	EPA 8260-W	GC/MS
Ethylbenzene	TO 0332	EPA 8260-W	GC/MS
Xylenes	TO 0332	EPA 8260-W	GC/MS
C6 - C10 (F1)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0542	CCME Tier 1 Method-W L	GC/FID
C10 - C16 (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Toluene-d8 (BTEX)	TO 0542	EPA 624 & SW-846 5030-W	GC/MS
o-Terphenyl (F2)	TO 0511	CCME Tier 1 Method-W H	GC/FID
Acridine	TO 0200	EPA 8270-W	GC/MS
Quinoline	TO 0200	EPA 8270-W	GC/MS
2-Methylnaphthalene	TO 0200	EPA 8270-W	GC/MS
Naphthalene	TO 0200	EPA 8270-W	GC/MS
Acenaphthylene	TO 0200	EPA 8270-W	GC/MS
Acenaphthene	TO 0200	EPA 8270-W	GC/MS
Fluorene	TO 0200	EPA 8270-W	GC/MS
Phenanthrene	TO 0200	EPA 8270-W	GC/MS
Anthracene	TO 0200	EPA 8270-W	GC/MS
Fluoranthene	TO 0200	EPA 8270-W	GC/MS
Pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]anthracene	TO 0200	EPA 8270-W	GC/MS
Chrysene	TO 0200	EPA 8270-W	GC/MS
Benzo[b+j]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[k]fluoranthene	TO 0200	EPA 8270-W	GC/MS
Benzo[a]pyrene	TO 0200	EPA 8270-W	GC/MS
Indeno[1,2,3-cd]pyrene	TO 0200	EPA 8270-W	GC/MS
Benzo[ghi]perylene	TO 0200	EPA 8270-W	GC/MS
Dibenzo[ah]anthracene	TO 0200	EPA 8270-W	GC/MS
2-Fluorobiphenyl (PAH)	TO 0200	EPA 8270	GC/MS
p-Terphenyl-d14 (PAH)	TO 0200	EPA 8270	GC/MS
B[a]P TPE	TO 0200	EPA 8270-W	GC/MS
Chloromethane	TO 0330	EPA SW-846 8260	GC/MS
Vinyl Chloride	TO 0330	EPA SW-846 8260	GC/MS
Bromomethane	TO 0330	EPA SW-846 8260	GC/MS
Chloroethane	TO 0330	EPA SW-846 8260	GC/MS
Trichlorofluoromethane	TO 0330	EPA SW-846 8260	GC/MS
Acetone	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Methylene Chloride	TO 0330	EPA SW-846 8260	GC/MS
Methyl tert-Butyl Ether	TO 0330	EPA SW-846 8260	GC/MS
Methyl Ethyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
trans-1,2-Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
1,1-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
cis-1,2 Dichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Chloroform	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichloroethane	TO 0330	EPA SW-846 8260	GC/MS
1,1,1-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Carbon Tetrachloride	TO 0330	EPA SW-846 8260	GC/MS
Benzene	TO 0330	EPA SW-846 8260	GC/MS

## Method Summary

CLIENT NAME: SEARS CANADA INC

AGAT WORK ORDER: 15C023619

PROJECT: CG2430E15

ATTENTION TO: Accounts

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	TO 0330	EPA SW-846 8260	GC/MS
Trichloroethylene	TO 0330	EPA SW-846 8260	GC/MS
Bromodichloromethane	TO 0330	EPA SW-846 8260	GC/MS
trans-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
Methyl Isobutyl Ketone	TO 0330	EPA SW-846 8260	GC/MS
cis-1,3-Dichloropropene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2-Trichloroethane	TO 0330	EPA SW-846 8260	GC/MS
Toluene	TO 0330	EPA SW-846 8260	GC/MS
2-Hexanone	TO 0330	EPA SW-846 8260	GC/MS
Dibromochloromethane	TO 0330	EPA SW-846 8260	GC/MS
Ethylene Dibromide	TO 0330	EPA SW-846 8260	GC/MS
Tetrachloroethene	TO 0330	EPA SW-846 8260	GC/MS
1,1,1,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
Chlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0330	EPA SW-846 8260	GC/MS
m,p-Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Bromoform	TO 0330	EPA SW-846 8260	GC/MS
Styrene	TO 0330	EPA SW-846 8260	GC/MS
1,1,2,2-Tetrachloroethane	TO 0330	EPA SW-846 8260	GC/MS
o-Xylene	TO 0330	EPA SW-846 8260	GC/MS
1,3-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,4-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2-Dichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
1,2,4-Trichlorobenzene	TO 0330	EPA SW-846 8260	GC/MS
Xylenes	TO 0330	EPA SW-846 8260	GC/MS
Toluene-d8	TO 0330	EPA SW-846 8260	GC/MS





# AGAT Laboratories

2910 12 Street NE  
Calgary, Alberta T2E 7P7

P: 403.735.2005 • F: 403.735.2771

webearth.agatlabs.com

### Laboratory Use Only

Arrival Temperature: 7°C

AGAT Job Number: 15C 013619

Date and Time: 15 SEP-24 11:56

## Chain of Custody Record

Emergency Support Services Hotline **1-855-AGAT 245 (1-855-242-8245)**

### Report Information

Company: Clifton Associates Ltd.  
 Contact: Daniel Budai  
 Address: 2222-30th Ave NE  
Calgary AB T2E 7K9  
 Phone: (403) 263-2556 Fax: (403) 234-9083  
 LSD: \_\_\_\_\_  
 Client Project #: CG 2430 E15

### Report Information

1. Name: Daniel Budai  
 Email: daniel-budai@clifton.ca  
 2. Name: Mark Lehar  
 Email: mark-lehar@clifton.ca  
 3. Name: Stephen d'Abadie  
 Email: stephen-dabadie@clifton.ca

### Report Format

Single Sample per Page  
 Multiple Samples per Page

### Requirements (Selection may impact detection limits)

CCME  AB Tier 1  BC CSR  
 Agricultural  Agricultural  AW  
 Industrial  Industrial  IW  
 Residential/Park  Residential/Park  LW  
 Commercial  Commercial  DW  
 Drinking Water  Natural Area  
 FWAL  AB Surface Water  
 Other  
 D50 (Drilling)  SPIGEC

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 business days  
 Rush TAT  Less than 24 hours  
 24 to 48 hours  
 48 to 72 hours

RUSH TAT REQUESTS UPON SELECTING A RUSH TAT, THE CLIENT ACCEPTS THAT A RUSH SURCHARGE WILL BE ADDED TO THE INVOICE. SEE BACK FOR SURCHARGE.

Date Required: \_\_\_\_\_

### Invoice To

Same Yes  No

Company: Sears Canada Inc.  
 Contact: \_\_\_\_\_  
 Address: 290 Yonge Street Suite 700  
Toronto, ON M5B 2C3  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 PO/AFE#: CG 2430 E15

LABORATORY USE (LAB ID #)	SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE/TIME SAMPLED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	# OF CONTAINERS	Detailed Soil Salinity (Saturated Paste)	CCME BTEX/FL-F4	Soil Metals <input type="checkbox"/> HWS-B <input type="checkbox"/> Cr <sup>6</sup> <input type="checkbox"/> Hg	Water Metals <input type="checkbox"/> Dissolved <input type="checkbox"/> Total <input type="checkbox"/> Hg <input type="checkbox"/> Cr <sup>6</sup>	Routine Water Potability	AB Class 2 Landfill	BC Landfill	D50 Detailed Soil Salinity (As Received)	Microtox	BTEX/VPH/EPH <input type="checkbox"/> LEPH/HEPH <input type="checkbox"/>	BTEX/FI	FA	VOL	PAHS	HOLD FOR 60 DAYS	PRESERVED (Y/N)	CONTAMINATED/HAZARDOUS (Y/N) "Potentially"
<u>2016965</u>	<u>Trip Blank II</u>	<u>Water</u>	<u>Sept. 24</u>		<u>3</u>																	
<u>978</u>	<u>1928-3</u>	<u>GW</u>	<u>Sept. 24 / 10:15</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	
<u>977</u>	<u>1928-3</u>	<u>↓</u>	<u>Sept. 24 / 10:15</u>		<u>4</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	
	<u>1956-3</u>	<u>↓</u>	<u>Sept. 24 / 10:31</u>		<u>1</u>											<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	
	<u>1956-3</u>	<u>↓</u>	<u>Sept. 24 / 10:31</u>													<u>✓</u>	<u>✓</u>	<u>✓</u>			<u>✓</u>	

Samples Relinquished By (Print Name and Sign): <u>Kelsey Doepker</u>	Date/Time: <u>Sept 24/11:56</u>	Samples Received By (Print Name and Sign): <u>Rafina Amogel</u>	Date/Time: <u>24-Sept-2015</u>	Page <u>1</u> of <u>1</u>
Samples Relinquished By (Print Name and Sign): <u>Kelsey Doepker</u>	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: <u>11:56</u>	Print Copy - Client
Samples Relinquished By (Print Name and Sign): _____	Date/Time: _____	Samples Received By (Print Name and Sign): _____	Date/Time: _____	Yellow Copy - AGAT
				White Copy - AGAT
				Nº: AB <b>043860</b>

# AGAT Laboratories

## SAMPLE INTEGRITY RECEIPT FORM

### RECEIVING BASICS - Shipping

Company/Consultant: SCARS / CLIFTON  
 Courier: DLO Prepaid  Collect   
 Waybill# \_\_\_\_\_  
 Branch: EDM GP FN FM RD VAN LYD FSJ EST Other: \_\_\_\_\_  
 Custody Seal Intact: Yes  No  NA  
 TAT: <24hr 24-48hr 48-72hr  Reg Other \_\_\_\_\_  
 Cooler Quantity: 1

### TIME SENSITIVE ISSUES - Shipping

ALREADY EXCEEDED HOLD TIME? Yes  No   
 Inorganic Tests (Please Circle): Mibi , BOD , Nitrate/Nitrite , Turbidity ,  
 Microtox , Ortho PO4 , Tedlar Bag , Residual Chlorine , Chlorophyll\* ,  
 Chloroamines\*  
 Earliest Expiry: \_\_\_\_\_  
 Hydrocarbons: Earliest Expiry SEP 05 2015

### SAMPLE INTEGRITY - Shipping

Hazardous Samples: YES  NO  Precaution Taken: \_\_\_\_\_  
 Legal Samples: Yes  No   
 International Samples: Yes  No   
 Tape Sealed: Yes  No   
 Coolant Used: Icepack  Bagged Ice  Free Ice  Free Water  None

Temperature (Bottles/Jars only) N/A if only Soil Bags Received

### FROZEN (Please Circle if samples received Frozen)

1 (Bottle/Jar) 9 + 7 + 7 = 23 °C    2 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 3 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    4 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 5 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    6 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 7 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    8 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C  
 9 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C    10 (Bottle/Jar) \_\_\_ + \_\_\_ + \_\_\_ = \_\_\_ °C

(If more than 10 coolers are received use another sheet of paper and attach)

### LOGISTICS USE ONLY

Workorder No: 15C 023619  
 Samples Damaged: Yes  No  If YES why? \_\_\_\_\_  
 No Bubble Wrap  Frozen  Courier   
 Other: \_\_\_\_\_  
 Account Project Manager: \_\_\_\_\_ have they been notified of the  
 above issues: Yes  No   
 Whom spoken to: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 CPM Initial \_\_\_\_\_  
 General Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\* Subcontracted Analysis (See CPM)



# Clifton Associates

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## Regina Office

340 Maxwell Crescent  
Regina, SK S4N 5Y5

T (306) 721 7611  
F (306) 721 8128

## Saskatoon Office

#4, 1925 – 1st Avenue N  
Saskatoon, SK S7K 6W1

T (306) 975 0401  
F (306) 975 1076

## North Battleford Office

#2, 9802 – 27th Avenue  
North Battleford, SK S9A 1K5

T (306) 445 1621  
F (306) 937 3731

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## Calgary Office

2222 – 30th Avenue NE  
Calgary, AB T2E 7K9

T (403) 263 2556  
F (403) 234 9033

## Edmonton Office

#200, 9636 – 51st Avenue NW  
Edmonton, AB T6E 6A5

T (780) 432 6441  
F (780) 432 6271

## Lloydminster Office

#10, 6309 – 43rd Street W  
Lloydminster, AB T9V 2W9

T (780) 872 5980  
F (780) 872 5983

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[www.clifton.ca](http://www.clifton.ca)