

KBL Environmental Ltd #17 Cameron Road, P.O. Box 1895 Yellowknife, NT X1A 2P4 August 19, 2022

Attention: Renee White

File NumberG17L1 - 002Type of OperationCLASS B - INDUSTRIALLocation

Dear Renee White,

An inspection of the KBL Environmental Ltd. Soil Treatment Facility (Expiry June 24, 2022) was conducted July 28, 2022. Specifically, the Water Licence was inspected to ensure that the terms and conditions were met. Enclosed is a copy of the inspection report for your review and records. A hard copy of this inspection report will also be mailed to you.

Please take note of the non – compliance violations identified in enclosed inspection report. It is the licensee's responsibility to adhere to all terms and conditions set out in the water licence. KBL Environmental Ltd.'s water license expired on June 24, 2022. The Licensee must submit a license renewal application to the Gwich'in Land and Water Board (GLWB). **KBL Environmental Ltd. cannot operate at this facility or accept any new material until an active water license is in place.**

An electronic and hard copy of this report will be sent to the GLWB for their review and posting on the Public Registry.

If you have any questions/concerns regarding the enclosed, please do not hesitate to contact Senior Water Resource Officer, Wendy Bidwell, at 867 - 872 - 6421, or myself at 867 - 678 - 6652.

Regards,

Original signed

Lloyd Gruben Water Resource Officer Environment and Natural Resources Beaufort Delta Region Inuvik, NT, XOE OTO Phone: 867 - 678 – 6652 Cell: 867 - 678 – 0623

Cc:

Norman Snowshoe - Regional Superintendent, Environment and Natural Resources Leonard Debastien - Executive Director, Gwich'in Land and Water Board AlecSandra Macdonald - Regulatory Specialist, Gwich'in Land and Water Board Wendy Bidwell - Senior Water Resource Officer, Environment and Natural Resources Gwich'in Land and Water Board Members

INDUSTRIAL WATER USE INSPECTION REPORT

LICENCE #:	G17L1 - 002	EXPIRY DATE:	June 24, 2022
LICENCEE:	KBL Environmental Ltd	PREVIOUS INSPECTION:	N/A
COMPANY REP:	Renee White	INSPECTION DATE:	July 28, 2022

SURVEILLANCE NETWORK PROGRAM

Samples Collected Licencee	Yes
Samples Collected ENR	No

Signs Posted: SNP	No	Warning	Yes
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Surveillance Network Program Comments:

SNP samples were collected from groundwater monitoring wells surrounding the facility. Analytical results for treated water are attached to this report.

During the inspection it was noted that the SNP station 0037-3 (Drainage Ditch) was not signed. Please post a sign at this SNP station location.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate:	A - Acceptable	U - Unacceptable	N/A - Not Applicable N/I - Not Inspected
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C &R Plan	А	Records & Reporting	А	Final Report	А
Geotechnical Inspection	А	Posting, Signage	А	Contingency Plan	А
Restorations Activities	А	Spills	А	O&M Plan	А
Maintenance	U	Modifications	А	Annual Report	А

General Condition Comments:

Skylar Kraus, the KLB representative on site during the inspection noted that fencing will be erected when material arrives on August 7th to prevent wildlife from entering the facility and surface run-off retention pond. The facility perimeter berm surrounding the contaminated soil windrows has cracks developing along the southeast side. To prevent structural collapse, or release of contaminants, the perimeter berm requires maintenance work as soon as possible. Contaminated soil from various projects are kept separate to prevent mixing.

KBL Environmental Ltd.'s water license expired on June 24, 2022. The Licensee must submit a license renewal application to the GLWB. **KBL Environmental Ltd. cannot operate at this facility, or accept any new material until an active water license is in place.**

	Date:	July 28, 2022	Licence #:	G17L1 - 002	Page No:	1
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INDUSTRIAL WATER USE INSPECTION REPORT

ADDITIONAL COMMENTS/REMARKS

All debris surrounding the Soil Treatment Facility is to be picked up and properly disposed of.

Ponded water was observed in the southeast area of the facility. Better drainage management is required to address this issue (see Figures 3 and 4).

Treated effluent from the Surface Run-off Rentention pond that is stored in totes, must be discharged to the receiving environment at a gradual rate to prevent erosion and sediment loading to any nearby water bodies.

MATTERS FOR FOLLOW UP

-Check if fencing has been erected to prevent wildlife from entering the facility.

-Check if maintenance work has been done to correct cracking along facility berms to prevent structural collapse, or release of contaminants.

-Check if all debris in and around the facility has been picked up and properly disposed of.

- Inquire with GLWB whether KBL Environmental Ltd. has submitted an application for water license renewal. KBL Environmental Ltd. cannot operate at this facility, or accept any new material until an active water license is in place.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

- KBL Environmental Ltd is operating with an expired water license. The license expired June 24, 2022. KBL Environmental Ltd. must submit an application for license renewal as soon as possible and must not operate until an active license is in place.
- 2. Analytical results for sampling of soil, water and snow *must* be to be sent to the inspector prior to acceptance at the facility to confirm water license criteria is met as per license condition Part E, Item 15. The inspector has not received any analytical results for materials currently in the facility to date.
- 3. Debris was noted laying all over the facility rather than collecting and disposing of it at the Solid Waste Disposal Facility. As per license condition Part E, Item 11 this debris needs to be cleaned up and properly disposed of.
- 4. During the inspection it was noted that windrows exceed maximum height. Guidance on proper operation of Petroleum Hydrocarbon Contaminated Soil Treatment Facilities can be found in the <u>Guideline for Petroleum Hydrocarbon Contaminated Soil Treatment Facilities in the Northwest Territories</u>.
- 5. Please submit any outstanding administrative items to the Board, or Inspector as soon as possible.

Inspector's Signature: Original signed

	Date:	July 28, 2022	Licence #:	G17L1 - 002	Page No:	2
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INDUSTRIAL WATER USE INSPECTION REPORT

INSPECTION IMAGES

Figure 1

Debris surrounding Soil Treatment Facility



Figure 2 Groundwater Monitoring Well for SNP Monitoring



Date:	July 28, 2022	Licence #:	G17L1 - 002	Page No:	3
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Government of Gouvernement des Northwest Territories du Nord-Ouest

INDUSTRIAL WATER USE INSPECTION REPORT

Figure 3 Small pile of soil to be aerated, segregated from main windrow to prevent mixing



Figure 4 Photo of long crack along southeast berm surrounding main soil windrow



_{Date:} Jul	ly 28, 2022	Licence #:	G17L1 - 002	Page No:	4
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Government of Northwest Territories du Nord-Ouest INDUSTRIAL WATER USE INSPECTION REPORT

Figure 5

Long crack along southeast berm surrounding main windrow pile – looking south



 Figure 6
 Totes of treated water from retention pond ready for release to receiving environment



Date:	July 28, 2022	Licence #:	G17L1 - 002	Page No:	5
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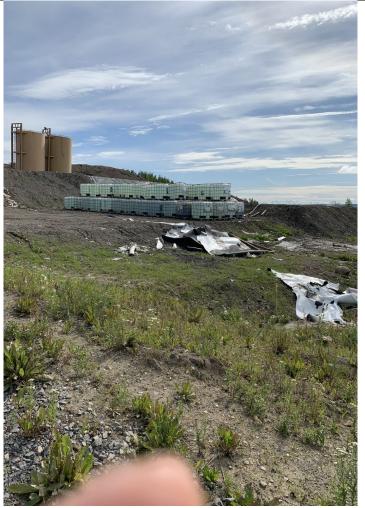


INDUSTRIAL WATER USE INSPECTION REPORT

Figure 7 Height of main soil windrow exceeds maximum height allowance



Figure 8 Debris discarded at Soil Treatment Facility, not disposed of properly



Date:	July 28, 2022	Licence #:	G17L1 - 002	Page No:	6
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			29-Jun-	29-Jun-
		Date Sampled	2022	2022
		Date campied		YL220079
		ALS Sample ID	7-001	7-002
	KBL Permit		Sub-	Sub-
	Discharge	Units	Matrix:	Matrix:
Parameter	Limits		Water	Water
antimony, total	0.006	mg/L	< 0.00010	
arsenic, total	0.005	mg/L	0.00016	< 0.00020
barium, total	1	mg/L	0.0218	0.0237
1 Carrol 10		1	< 0.00002	
beryllium, total	100	mg/L	0	0.000504
boron, total	1.5	mg/L	0.034	0.088
iron, total	0.3	mg/L	< 0.010	< 0.020
manganese, total	0.05	mg/L	0.00724	0.00845
	1		< 0.00005	< 0.00010
selenium, total	0.001	mg/L	0	0
uranium, total	0.02	mg/L	0.000034	0.000280
zinc, total	0.03	mg/L	0.0068	0.0198
phenols, total (4AAP)	0.004	mg/L	< 0.0010	< 0.0010
benzene	5	µg/L	< 0.50	< 0.50
ethylbenzene	2.4	μg/L	< 0.50	< 0.50
styrene	72	µg/L	< 0.50	< 0.50
toluene	24	µg/L	< 0.50	< 0.50
xylenes, total	300	µg/L	0.54	< 0.50
F1 (C6-C10)	2200	µg/L	<100	<100
F2 (C10-C16)	1100	μg/L	<300	<300
	1	μg/L	< 0.010	<0.010
acenaphthene	5.8	-		
acenaphthylene	46	µg/L	<0.010	<0.010
anthracene	0.012	µg/L	<0.010	<0.010
benz(a)anthracene	0.018	µg/L	<0.010	<0.010
benzo(a)pyrene	0.017	µg/L	<0.0050	<0.0050
benzo(b+j)fluoranthene	0.48	µg/L	<0.010	<0.010
benzo(k)fluoranthene	0.48	µg/L	<0.010	<0.010
chrysene	1.4	µg/L	<0.010	<0.010
dibenz(a,h)anthracene	0.28	hð\r	<0.0050	<0.0050
fluoranthene	0.04	µg/L	<0.010	<0.010
fluorene	3	μg/L	<0.010	<0.010
indeno(1,2,3-c,d)pyrene	0.23	µg/L	<0.010	<0.010
naphthalene	1.1	µg/L	0.065	<0.050
phenanthrene	0.4	µg/L	<0.020	<0.020
pyrene	0.025	μg/L	<0.010	<0.010
B(a)P total potency equivalents [B(a)P TPE]	0.01	µg/L	<0.010	<0.010



Analytical Results

Sub-Matrix: Water			Ch	ent sample ID	STF-TOTES-A	STF-TOTES-B		-	
(Matrix: Water)									
			Client samp	ling date / time	29-Jun-2022 15:42	29-Jun-2022 15:56		-	
Analyte	CAS Number	Method	LOR	Unit	YL2200797-001	YL2200797-002			
					Result	Result	<u></u>	—	
Total Metals					-0.00010			N	
antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00020	_		2323
arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00016	<0.00020 **	6777778		13275
barium, total	7440-39-3	E420	0.00010	mg/L	0.0218	0.0237		2020	
beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	0.000504		<u>2.2.2.5</u>	
boron, total	7440-42-8	E420	0.010	mg/L	0.034	0.088			
iron, total	7439-89-6	E420	0.010	mg/L	<0.010	<0.020	—		
manganese, total	7439-96-5	E420	0.00010	mg/L	0.00724	0.00845			
selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000100			
uranium, total	7440-61-1	E420	0.000010	mg/L	0.000034	0.000280	—		
zinc, total	7440-66-6	E420	0.0030	mg/L	0,0068	0.0198			
Aggregate Organics						Real Providence			
phenois, total (4AAP)	_	E562	0.0010	mg/L	<0.0010	<0.0010			
Volatile Organic Compounds [Fuels]					100				
benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50			
ethylbenzene	100-41-4	E611A	0,50	µg/L	<0.50	<0.50	—	<u></u>	
methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	0.50	µg/L	<0.50	<0.50		<u></u>	
styrene	100-42-5	E611A	0.50	µg/L	<0.50	<0.50			
toluene	108-88-3	E611A	0.50	µg/L	<0.50	<0.50			
xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0,40	—		
xylene, o-	95-47-6	E611A	0.30	µg/L	0.54	<0,30	—		
xylenes, total	1330-20-7	E611A	0.50	µg/L	0.54	<0.50	_		
Volatile Organic Compounds Surrogates									
bromofluorobenzene, 4-	460-00-4	E611A	1.0	%	87.4	86.9	—		
difluorobenzene, 1,4-	540-36 <mark>-</mark> 3	E611A	1.0	%	100	97.3		<u> </u>	
Hydrocarbons	100 Mar					a manual second			
F1 (C6-C10)	_	E581.VH+F1	100	µg/L	<100	<100		-	<u></u>
F2 (C10-C16)		E601	300	µg/L	<300	<300	—		
VHw (C6-C10)		E581.VH+F1	100	µg/L	<100	<100		3 - 8	
F1-BTEX		EC580	100	µg/L	<100	<100			
VPHw		EC580A	100	µg/L	<100	<100	_		



Analytical Results

Sub-Matrix: Water			Ci	lient sample ID	STF-TOTES-A	STF-TOTES-B			
Matrix: Water)									
			Client samp	oling date / time	29-Jun-2022 15:42	29-Jun-2022 15:56			
Analyte	CAS Number	Method	LOR	Unit	YL2200797-001	YL2200797-002			
100 C					Result	Result	-		
Hydrocarbons Surrogates							10 m - 10 m		
promobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	E601	1.0	%	85.3	86.1			
dichlorotoluene, 3,4-	97-75-0	E581.VH+F1	1.0	%	103	102			
Polycyclic Aromatic Hydrocarbons								1000	
Icenaphthene	83-32-9	E641A	0.010	µg/L	<0.010	<0.010	-		
acenaphthylene	208-96-8	E641A	0.010	µg/L	<0.010	<0.010			100
anthracene	120-12-7	E641A	0,010	µg/L	<0.010	<0.010			1.1
oenz(a)anthracene	56-55-3	E641A	0.010	µg/L	<0.010	<0.010	-		
penzo(a)pyrene	50-32-8	E641A	0.0050	µg/L	<0.0050	<0.0050		1000	
enzo(b+j)fluoranthene	n/a	E641A	0.010	µg/L	<0.010	<0.010	-		1
enzo(b+j+k)fluoranthene	n/a	E641A	0.015	µg/L	<0.015	<0.015			
enzo(g,h,i)perylene	191-24-2	E641A	0.010	µg/L	<0.010	<0.010			
enzo(k)fluoranthene	207-08-9	E641A	0.010	µg/L	<0.010	<0.010			
hrysene	218-01-9	E641A	0.010	µg/L	<0.010	<0.010	—	-	
libenz(a,h)anthracene	53-70-3	E641A	0.0050	µg/L	<0.0050	<0.0050		<u> </u>	
luoranthene	206-44-0	E641A	0.010	µg/L	<0.010	<0.010	_		
luorene	86-73-7	E641A	0.010	µg/L	<0.010	<0.010	—	-	_
ndeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.010	µg/L	<0.010	<0.010			_
aphthalene	91-20-3	E641A	0.050	µg/L	0,065	<0.050		-	
henanthrone	85-01-8	E641A	0,020	µg/L	<0.020	<0.020		0000	
yrene	129-00-0	E641A	0.010	µg/L	<0.010	<0.010		3000	_
/ a)P total potency equivalents [B(a)P TPE]		E641A	0.010	µg/L	<0.010	<0.010			
PAHs, total (EPA 16)	n/a	E641A	0.065	µg/L	0.065	<0.065	_		1.5
Polycyclic Aromatic Hydrocarbons Surrogates									
hrysene-d12	1719-03-5	E641A	0.1	%	110	113	—		
aphthalene-d8	1146-65-2	E641A	0.1	%	102	104	-		
henanthrene-d10	1517-22-2	E641A	0.1	%	107	109			
Polychlorinated Biphenyls				196					
olychlorinated biphenyls [PCBs], total	_	E685	1.0	µg/L	<1.0	<1.0	-		
Polychlorinated Biphenyls Surrogates	10.47.17				LOS DEPENDENT				
lecachlorobiphenyl	2051-24-3	E685	1.0	%	83.1	81.8		_	

Page	3 of 7
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	š



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and for federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

nalyte Group	Method	Sampling Date	Ex	traction / Pr	eparation			Analys	is .	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
ggregate Organics : Phenols (4AAP) in Water by Colorimetry							-	_		
Amber glass total (sulfuric acid)								0.0		1
STF-TOTES-A	E562	29-Jun-2022			-		15-Jul-2022	28 days	16 days	*
ggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid)										
STF-TOTES-B	E562	29-Jun-2022					15-Jul-2022	28 days	16 days	~
ydrocarbons : CCME PHCs - F2-F4 by GC+FID										
Amber glass/Teflon lined cap (sodium bisulfate)	0.000									1
STF-TOTES-A	E601	29-Jun-2022	10-Jul-2022	14	11	~	11-Jul-2022	40 days	1 days	~
				days	days					
ydrocarbons : CCME PHCs - F2-F4 by GC-FID						8		1		
Amber glass/Teflon lined cap (sodium bisulfate)	5004	00.1	40.1.1.0000			1	11-Jul-2022	40 days	1 days	~
STF-TOTES-B	E601	29-Jun-2022	10-Jul-2022	14	11	*	11-301-2022	40 days	Tuays	•
				days	days					
ydrocarbons : VH and F1 by Headspace GC-FID					1				11	
Glass vial (sodium bisulfate)	E581.VH+F1	29-Jun-2022	13-Jul-2022				13-Jul-2022	14 days	13 days	1
STF-TOTES-A	E301.VH+F1	23-301-2022	13-34-2022							
ydrocarbons : VH and F1 by Headspace GC-FID					2					
Glass vial (sodium bisulfate)			40.1.1.0000				13-Jul-2022		40 days	1
STF-TOTES-B	E581.VH+F1	29-Jun-2022	13-Jul-2022		-		13-JUF2022	14 days	13 days	•
olychlorinated Biphenyls : PCB Aroclors by GC-ECD			TE-S /Q					I		
Amber glass/Teflon lined cap			-							
STF-TOTES-A	E685	29-Jun-2022	14-Jul-2022		—		15-Jul-2022	40 days	1 days	1



Analyte Group	Method	Sampling Date	Ex	traction / Pr	eparation		Analysis			
Container / Client Sample ID(s)			Preparation Holding Times		a Times	Eval	Analysis Date Holding 1		Times	Eval
			Date	Rec	Actual			Rec	Actual	
olychlorinated Biphenyls : PCB Aroclors by GC-ECD			State of the second	1			CARPEL STREET			
Amber glass/Teflon lined cap	10.04						15-Jul-2022	10 1000	d dava	1
STF-TOTES-B	E685	29-Jun-2022	14-Ju l-202 2				13-JUI-2022	40 days	i uays	•
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-I	MS		14 12 12 E		1					
Amber glass/Teflon lined cap (sodium bisulfate)						1	11-Jul-2022	40 days	1.00.00	1
STF-TOTES-A	E641A	29-Jun-2022	10-Jul-2022	14 days	11 days	*	11-Jul-2022	40 days	ruays	•
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-	MS									
Amber glass/Teflon lined cap (sodium bisulfate)										
STF-TOTES-B	E641A	29-Jun-2022	10-Jul-2022	14	11	~	11-Jul-2022	40 days	1 days	*
				days	days	10 m	1			
otal Metals : Total Metals in Water by CRC ICPMS			and the second second			10.0				9.2
HDPE total (nitric acid) STF-TOTES-A	E420	29-Jun-2022			_		08-Jul-2022	180	9 days	✓
								days		
otal Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	E420	29-Jun-2022					08-Jul-2022	180	9 days	1
STF-TOTES-B	E420	25-Jun-2022					00-041-2022	days	• 44,0	
/olatile Organic Compounds [Fuels] : BTEX by Headspace GC	-MS		Shakes 1		-					
Glass vial (sodium bisulfate)	50444	00 km 0000	13-Jul-2022				13-Jul-2022	14 days	13 dave	4
STF-TOTES-A	E611A	29-Jun-2022	13-JUH2022				13-342022	14 Udys	10 days	•
/olatile Organic Compounds [Fuels] : BTEX by Headspace GC	-MS		242							
Glass vial (sodium bisulfate)							12 10 2022	14 days	12 days	1
STF-TOTES-B	E611A	29-Jun-2022	13-Jul-2022		-		13-Jul-2022	14 days	13 days	

Legend & Qualifier Definitions

Rec. HT. ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Quality Control Sample Type			C	ount	Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	559795	1	10	10.0	5.0	1
Phenols (4AAP) in Water by Colorimetry	E562	564780	1	20	5.0	5.0	1
Total Metals in Water by CRC ICPMS	E420	552554	1	20	5.0	5.0	\checkmark
VH and F1 by Headspace GC-FID	E581.VH+F1	559794	1	8	12.5	5.0	✓
Laboratory Control Samples (LCS)			and the second				
BTEX by Headspace GC-MS	E611A	559795	1	10	10,0	5.0	1
CCME PHCs - F2-F4 by GC-FID	E601	556341	1	3	33,3	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	556340	1	8	12.5	5.0	\checkmark
PCB Aroclors by GC-ECD	E685	562429	1	13	7.6	5,0	 Image: A second s
Phenols (4AAP) in Water by Colorimetry	E562	564780	1	20	5.0	5.0	√
Total Metals in Water by CRC ICPMS	E420	552554	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	559794	1	8	12.5	5.0	✓
Method Blanks (MB)			A COLOR	201			
BTEX by Headspace GC-MS	E611A	559795	1	10	10.0	5.0	1
CCME PHCs - F2-F4 by GC-FID	E601	556341	1	3	33.3	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	556340	1	8	12.5	5.0	1
PCB Aroclors by GC-ECD	E685	562429	1	13	7.6	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	564780	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	552554	1	20	5.0	5.0	
VH and F1 by Headspace GC-FID	E581,VH+F1	559794	1	8	12.5	5.0	✓
Matrix Spikes (MS)						-	
BTEX by Headspace GC-MS	E611A	559795	1	10	10.0	5.0	~
Phenols (4AAP) in Water by Colorimetry	E562	564780	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	552554	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581,VH+F1	559794	1	8	12.5	5.0	✓

Page	6 of 7
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals in Water by CRC ICPMS	E420 Vancouver - Environmental	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Phenols (4AAP) in Water by Colorimetry	E562 Edmonton - Environmental	Water	EPA 9066	This automated method is based on the distillation of phenol and subsequent reaction o the distillate with alkaline ferricyanide (K3Fe(CN)6) and 4-amino-antipyrine (4-AAP) to form a red complex which is measured colorimetrically.
VH and F1 by Headspace GC-FID	E581.VH+F1 Vancouver - Environmental	Water	BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod)	Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Sample are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
CCME PHCs - F2-F4 by GC-FID	E601 Vancouver - Environmental	Water	CCME PHC in Soil - Tier	Sample extracts are analyzed by GC-FID for CCME hydrocarbon fractions (F2-F4).
BTEX by Headspace GC-MS	E611A Vancouver - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A Vancouver - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI GC-MS.
PCB Aroclors by GC-ECD	E685 Vancouver - Environmental	Water	EPA 8082A (mod)	PCB Aroclors are analyzed by GC-ECD
F1-BTEX	EC580 Vancouver - Environmental	Water	CCME PHC in Soil - Tier 1	ethylbenzene and xylenes (BTEX).
VPH VH-BTEX-Styrene	EC580A Vancouver - Environmental	Water	BC MOE Lab Manuał (VPH in Water and Solids) (mod)	Volatile Petroleum Hydrocarbons (VPH) is calculated as follows: VPHw = Volatil Hydrocarbons (VH6-10) minus benzene, toluene, ethylbenzene, xylenes (BTEX) an styrene.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Page	7 of 7
Work Order	YL2200797
Client	: KBL Environmental Ltd.
Project	



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 Vancouver -	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
	Environmental	and the second		
PHCs and PAHs Hexane Extraction	EP601	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
	Vancouver -			
	Environmental			
PCB Aroclors Extraction	EP685	Water	EPA 3510C (mod)	PCBs are extracted using an organic solvent liquid-liquid extraction. The hexane extrac undergoes one or more of the following clean-up procedures (if required): florisi
	Vancouver -			clean-up, silica gel clean-up, sulphur clean-up and/or sulphuric acid clean-up.
	Environmental			

Page	3 of 9
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

ub-Matrix: Water						Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifie		
Fotal Metals (QC L	ot: 552554)				a statement								
CG2208562-009	Anonymous	antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR			
		arsenic, total	7440-38-2	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR			
		barium, total	7440-39-3	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR			
		beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.020 µg/L	<0.000020	0	Diff <2x LOR	100		
		boron, total	7440-42-8	E420	0.010	mg/L	<0_010	<0.010	0	Diff <2x LOR	÷.,		
	iron, total	7439-89-6	E420	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	$\sim -$			
		manganese, total	7439-96-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	· · · ·		
		selenium, total	7782-49-2	E420	0.000050	mg/L	<0,050 µg/L	<0.000050	0	Diff <2x LOR			
		uranium, total	7440-61-1	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR			
		zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	<u> 92</u>		
Angropoto Organia	s (QC Lot: 564780)							0.00					
VA22B4476-007	Anonymous	phenols, total (4AAP)		E562	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	—		
Volatile Organic Co	mpounds (QC Lot: 5	559795)											
KS2202375-008	Anonymous	benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	-		
		ethylbenzene	100-41-4	E611A	0,50	µg/L	<0.50	<0.50	0	Diff <2x LOR			
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	1000		
		styrene	100-42-5	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR			
		toluene	108-88-3	E611A	0.50	μg/L	<0.50	<0.50	0	Diff <2x LOR			
		xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	-		
		xylene, o-	95-47-6	E611A	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR			
lydrocarbons (QC	Lot: 559794)					11 X ***							
(\$2202375-008	Anonymous	F1 (C6-C10)		E581.VH+F1	100	µg/L	<100	<100	0.0%	30%	-		
										2010/02/02/02			

Page	4 of 9
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monifor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifie
Total Metals (QCLot: 552554)						
antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	
arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	
barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	_
beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	
boron, total	7440-42-8	E420	0.01	mg/L	<0.010	
iron, total	7439-89-6	E420	0.01	mg/L	<0.010	_
manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	_
selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	
uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	1 - 1
zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	8 <u>—</u> 33
Aggregate Organics (QCLot: 564780	0)					
phenols, total (4AAP)		E562	0.001	mg/L	<0.0010	
Volatile Organic Compounds (QCLc	ot: 559795)					
benzane		E611A	0.5	µg/L	<0.50	-
ethylbenzene	71-43-2 E611A 100-41-4 E611A		0.5	µg/L	<0.50	
methyl-tert-butyl ether [MTBE]	1634-04-4 E611A		0.5	μg/L	<0.50	
styrene	100-42-5	E611A	0.5	µg/L	<0,50	
toluene	100-42-5 E611A 108-88-3 E611A		0.5	μg/L	<0.50	-
xylene, m+p-	179601-23-1	E611A	0.4	µg/L	<0.40	_
xylene, o-	95-47-6	E611A	0.3	μg/L	<0.30	-
Hydrocarbons (QCLot: 556341)						
F2 (C10-C16)		E601	100	µg/L	<100	
Hydrocarbons (QCLot: 559794)						
F1 (C6-C10)		E581.VH+F1	100	µg/L	<100	
VHw (C6-C10)	—	E581.VH+F1	100	µg/L	<100	
Polycyclic Aromatic Hydrocarbons	(QCLot: 556340)		A REAL PROPERTY AND INCOME.			
acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	_
acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	
anthracene	120-12-7	E641A	0.01	µg/L	<0.010	
enz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	-
benzo(b+)/fluoranthene	n/a	E641A	0.01	µg/L	<0.010	—
benzo(g.h.i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	

Page	5 of 9
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	



Sub-Matrix: Water

Analyte	CAS Number Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbo	ns (QCLot: 556340) - continued				
enzo(k)fluoranthene	207-08-9 E641A	0.01	µg/L	<0.010	
hrysene	218-01-9 E641A	0.01	µg/L	<0.010	
libenz(a,h)anthracene	53-70-3 E641A	0.005	µg/L	<0.0050	
luoranthene	206-44-0 E641A	0.01	µg/L	<0.010	
uorene	86-73-7 E641A	0.01	µg/L	<0.010	-
ndeno(1,2,3-c,d)pyrene	193-39-5 E641A	0.01	µg/L	<0.010	
aphthalene	91-20-3 E641A	0.05	µg/L	<0.050	-
henanthrene	85-01-8 E641A	0.02	µg/L	<0.020	_
pyrene	129-00-0 E641A	0.01	μg/L	<0.010	

Page	6 of 9
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water					Laboratory Control Sample (LCS) Report						
Sub-Matrix. Hate					Spike	Recovery (%)	Recovery				
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier		
Total Metals (QCLot: 552554)								20			
antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	108	80.0	120			
arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	106	80.0	120	0.000		
barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	103	80.0	120	1000		
beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	112	80.0	120			
boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	104	80.0	120	(*****)		
iron, total	7 4 39 -8 9-6	E420	0.01	mg/L	1 mg/L	113	80.0	120	1000		
manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	107	80.0	120			
selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	106	80.0	120	<u></u>		
uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	108	80.0	120			
zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	106	80.0	120			
Aggregate Organics (QCLot: 564780)											
phenols, total (4AAP)		E562	0.001	mg/L	0.02 mg/L	94.6	85.0	115	378		
									1		
Volatile Organic Compounds (QCLot:	559795)				- Contractor		70.0	130			
benzene	71-43-2		0.5	µg/L	100 µg/L	93.9	70.0		1000		
ethylbenzene	100-41-4		0,5	µg/L	100 µg/L	90.6	70.0	130	0.00		
methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	0.5	µg/L	100 µg/L	98.9	70.0	130	5777-Q		
styrene	100-42-5	E611A	0,5	µg/L	100 µg/L	96.1	70,0	130	0.00		
toluene	108-88-3	E611A	0.5	hð\r	100 µg/L	98.2	70.0	130	<u>1776</u>		
xylene, m+p-	179601-23-1	E611A	0.4	hð\r	200 µg/L	97.3	70.0	130	_		
xylene, o-	95-47-6	E611A	0.3	µg/L	100 µg/L	93.4	70.0	130			
Hydrocarbons (QCLot: 556341)											
F2 (C10-C16)		E601	100	µg/L	3538 µg/L	106	70.0	130	1000		
Hydrocarbons (QCLot: 559794)											
F1 (C6-C10)		E581.VH+F1	100	µg/L	6310 µg/L	105	70.0	130			
VHw (C6-C10)	_	E581.VH+F1	100	µg/L	6310 µg/L	105	70.0	130	-		
Polycyclic Aromatic Hydrocarbons (C	(CLot: 556340)	9									
acenaphthene	83-32-9	E641A	0,01	µg/L	0,5 µg/L	94,9	60,0	130			
acenaphthylene	208-96-8	E641A	0.01	µg/L	0,5 µg/L	94.7	60.0	130	1000		
anthracene	120-12-7	E641A	0.01	µg/L	0.5 µg/L	112	60.0	130	-		
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5 µg/L	116	60.0	130			

Page	7 of 9
Work Order	YL2200797
Client	KBL Environmental Ltd.
Project	3.



b-Matrix: Water					Laboratory Control Sample (LCS) Report					
			Spike	Recovery (%)	Recovery Limits (%)		100			
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier	
Polycyclic Aromatic Hydrocarbons (Q	CLot: 556340) - continue	d							1.1	
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0,5 µg/L	104	60.0	130	-	
benzo(b+))fluoranthene	n/a	E641A	0.01	µg/L	0.5 µg/L	104	60.0	130		
benzo(g.h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5 µg/L	114	60,0	130		
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5 µg/L	110	60.0	130	-	
chrysene	218-01-9	E641A	0.01	µg/L	0.5 µg/L	117	60.0	130		
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5 µg/L	111	60.0	130		
luoranthene	206-44-0	E641A	0.01	µg/L	0.5 µg/L	110	60.0	130		
luorene	86-73-7	E641A	0,01	µg/L	0.5 µg/L	107	60.0	130		
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L,	0.5 µg/L	115	60.0	130		
naphthalene	91-20-3	E641A	0.05	µg/L	0.5 µg/L	84.4	50.0	130		
phenanthrene	85-01-8	E641A	0.02	µg/L	0.5 µg/L	112	60.0	130		
pyrene	129-00-0	E641A	0.01	µg/L	0.5 µg/L	112	60.0	130		

Page	- 8 of 9
Work Order	YL2200797
Client	KBL Environmental Ltd
Project	



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water					Matrix Spike (MS) Report							
			2000 048		Spi	ke	Recovery (%)	Recovery Limits (%)				
aboratory sample	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifie		
otal Metals (QC	CLot: 552554)				NETSSEE							
CG2208562-010	Anonymous	antimony, total	7440-36-0	E420	0.0200 mg/L	0.02 mg/L	100.0	70.0	130			
		arsenic, total	7440-38-2	E420	0.0192 mg/L	0.02 mg/L	96.2	70.0	130	100		
		barium, total	7440-39-3	E420	0.0192 mg/L	0.02 mg/L	95.8	70_0	130	1000		
	1	beryllium_total	7440-41-7	E420	0.0416 mg/L	0.04 mg/L	104	70,0	130	1000		
		boron, total	7440-42-8	E420	0,102 mg/L	0_1 mg/L	102	70 0	130	-		
		iron, total	7439-89-6	E42D	1.98 mg/L	2 mg/L	99.0	70.0	130	-		
		manganese, total	7439-96-5	E420	0.0199 mg/L	0.02 mg/L	99.4	70.0	130			
		selenium total	7782-49-2	E420	0.0401 mg/L	0.04 mg/L	100	70.0	130	1.00		
	2	uranium, total	7440-61-1	E420	0.00398 mg/L	0.004 mg/L	99.6	70.0	130			
		zinc, total	7440-66-6	E420	0.406 mg/L	0.4 mg/L	101	70.0	130			
ggregate Organ	nics (QCLot: 564780				A STREET, STRE	0.5						
VA22B4476-007	Anonymous	phenols, total (4AAP)		E562	0.0191 mg/L	0.02 mg/L	95,7	75.0	125	-		
olatile Organic	Compounds (QCLot	: 559795)										
K\$2202375-008	Anonymous	benzene	71-43-2	E611A	95.7 µg/L	100 µg/L	95.7	60.0	140			
	2	ethylbenzene	100-41-4	E611A	87.5 µg/L	100 µg/L	87.5	60.0	140	-		
		methyl-tert-butyl ether [MT8E]	1634-04-4	E611A	96.4 µg/L	100 µg/L	96.4	60.0	140			
		styrene	100-42-5	E611A	89.9 µg/L	100 µg/L	89,9	60.0	140	1 100		
		toluene	108-88-3	E611A	98.2 µg/L	100 µg/L	98.2	60.0	140	-		
		xylene, m+p-	179601-23-1	E611A	188 µg/L	200 µg/L	94.1	60.0	140			
		xylene, o-	95-47-6	E611A	89.6 µg/L	100 µg/L	89.6	60.0	140	-		
ydrocarbons (QCLot: 559794)											
<\$2202375-011	Anonymous	F1 (C6-C10)		E581.VH+F1	4560 µg/L	6310 µg/L	72.3	60,0	140			
		VHw (C6-C10)		E581.VH+F1	4160 µg/L	6310 µg/L	65.9	60.0	140			

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Drinkin	g Water (DW) Samples' (client use)	opecial manucuons /	(electric) (electric)	ctronic COC only)	any on an arop		Frozen	n	SIF Observations Yes No	
Are samples take	n from a Regulated DW System?				1	and the second	Ice Pa	icius 🛄	Hos Cubes Custody seal intact Yes No	
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Released by:	Date	22 8:38	Received by:	1	BULY 4	Contract and the second	Time 9*	20 Ros	ceived by: Date:	Time:

1 III any water samples are taken from a Regulated Drinking Water (DW). System presse submit using an Authorized DW COC form

White Paper Co. 604 951-3910