

Your P.O. #: 2012 KITIKMEOT
Your Project #: DLCU, LANDFILL MONITORING
Site Location: CAM-3 SHEPHERD BAY
Your C.O.C. #: 32400001, 324000-01-01

Attention: ANDREW PASSALIS
EGE ENGINEERING LTD.
511 PEPPERLOAF CRESCENT
WINNIPEG, MB
CANADA R3R 1E6

Report Date: 2012/09/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B276781
Received: 2012/08/27, 15:00

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/F1 in Water by HS GC/MS	9	N/A	2012/09/04	AB SOP-00039	CCME, EPA 8260C
CCME Hydrocarbons (F2-F4 in water)	7	2012/08/31	2012/09/02	CAL SOP-00086 AB SOP-00037	EPA3510C/CCME PHCCWS
CCME Hydrocarbons (F2-F4 in water)	1	2012/08/31	2012/09/03	CAL SOP-00086 AB SOP-00037	EPA3510C/CCME PHCCWS
CCME Hydrocarbons (F2-F4 in water)	1	2012/08/31	2012/09/05	CAL SOP-00086 AB SOP-00037	EPA3510C/CCME PHCCWS
Mercury - Low Level (Total)	7	2012/09/02	2012/09/04	CAL SOP-00007	EPA 1631
Mercury - Low Level (Total)	2	2012/09/05	2012/09/05	CAL SOP-00007	EPA 1631
Elements by ICPMS - Total	9	2012/08/31	2012/09/01	AB SOP-00043	EPA 200.8
Polychlorinated Biphenyls	8	2012/08/29	2012/08/30	CAL SOP-00149	EPA 3510C, EPA 8082A
Polychlorinated Biphenyls	1	2012/08/29	2012/08/31	CAL SOP-00149	EPA 3510C, EPA 8082A
Total Extractable Hydrocarbon C11-C60	7	2012/08/31	2012/09/02	AB SOP-00040 SOP-00037	AB EPA3510C/CCME PHCCWS
Total Extractable Hydrocarbon C11-C60	1	2012/08/31	2012/09/03	AB SOP-00040 SOP-00037	AB EPA3510C/CCME PHCCWS
Total Extractable Hydrocarbon C11-C60	1	2012/08/31	2012/09/05	AB SOP-00040 SOP-00037	AB EPA3510C/CCME PHCCWS

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Customer Service Cal,
Email: customerservicecalgary@maxxamanalytics.com
Phone# (403) 291-3077

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

Total cover pages: 1

Maxxam Job #: B276781
Report Date: 2012/09/05

EGE ENGINEERING LTD.
Client Project #: DLCU, LANDFILL MONITORING
Site Location: CAM-3 SHEPHERD BAY
Your P.O. #: 2012 KITIKMEOT
Sampler Initials: AP

AT1 BTEX AND F1-F4 IN WATER (WATER)

Maxxam ID		EH9865	EH9866	EH9867	EH9868		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-5W	C312-6W	C312-7W	C312-13W	RDL	QC Batch
Ext. Pet. Hydrocarbon							
F2 (C10-C16 Hydrocarbons)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	6132409
F3 (C16-C34 Hydrocarbons)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	6132409
F4 (C34-C50 Hydrocarbons)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	6132409
Reached Baseline at C50	mg/L	YES	YES	YES	YES		6132409
Surrogate Recovery (%)							
O-TERPHENYL (sur.)	%	121	125	118	120		6132409
Volatiles							
Benzene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	6136461
Toluene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	6136461
Ethylbenzene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	6136461
o-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	6136461
m & p-Xylene	ug/L	<0.80	<0.80	<0.80	<0.80	0.80	6136461
Xylenes (Total)	ug/L	<0.80	<0.80	<0.80	<0.80	0.80	6136461
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	100	6136461
(C6-C10)	ug/L	<100	<100	<100	<100	100	6136461
Surrogate Recovery (%)							
1,4-Difluorobenzene (sur.)	%	104	96	100	99		6136461
4-BROMOFLUOROBENZENE (sur.)	%	96	96	98	96		6136461
D4-1,2-DICHLOROETHANE (sur.)	%	124	125	123	128		6136461

RDL = Reportable Detection Limit

Maxxam Job #: B276781
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AT1 BTEX AND F1-F4 IN WATER (WATER)

Maxxam ID		EH9869	EH9870	EH9871	EH9872	EH9873		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-14W	C312-15W	C312-BDWI	C312-FB	TRIP BLANK	RDL	QC Batch
Ext. Pet. Hydrocarbon								
F2 (C10-C16 Hydrocarbons)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	6132409
F3 (C16-C34 Hydrocarbons)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	6132409
F4 (C34-C50 Hydrocarbons)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	6132409
Reached Baseline at C50	mg/L	YES	YES	YES	YES	YES		6132409
Surrogate Recovery (%)								
O-TERPHENYL (sur.)	%	117	95	75	113	123		6132409
Volatiles								
Benzene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	6136461
Toluene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	6136461
Ethylbenzene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	6136461
o-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	6136461
m & p-Xylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	6136461
Xylenes (Total)	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	6136461
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	<100	100	6136461
(C6-C10)	ug/L	<100	<100	<100	<100	<100	100	6136461
Surrogate Recovery (%)								
1,4-Difluorobenzene (sur.)	%	107	103	102	101	102		6136461
4-BROMOFLUOROBENZENE (sur.)	%	95	95	97	97	94		6136461
D4-1,2-DICHLOROETHANE (sur.)	%	127	119	129	124	125		6136461

RDL = Reportable Detection Limit

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POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Maxxam ID		EH9865	EH9866	EH9867	EH9868		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-5W	C312-6W	C312-7W	C312-13W	RDL	QC Batch
Polychlorinated Biphenyls							
Aroclor 1016	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1221	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1232	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1242	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1248	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1254	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1260	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1262	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1268	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Total Aroclors	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Surrogate Recovery (%)							
NONACHLOROBIPHENYL (sur.)	%	120	128	129	127		6124901

Maxxam ID		EH9869	EH9870	EH9871	EH9872	EH9873		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-14W	C312-15W	C312-BDWI	C312-FB	TRIP BLANK	RDL	QC Batch
Polychlorinated Biphenyls								
Aroclor 1016	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1221	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1232	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1242	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1248	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1254	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1260	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1262	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Aroclor 1268	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Total Aroclors	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000050	6124901
Surrogate Recovery (%)								
NONACHLOROBIPHENYL (sur.)	%	100	114	126	127	128		6124901

RDL = Reportable Detection Limit

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		EH9865		EH9866		EH9867		EH9868		
Sampling Date		2012/08/22		2012/08/22		2012/08/22		2012/08/22		
COC#		324000-01-01		324000-01-01		324000-01-01		324000-01-01		
	UNITS	C312-5W	RDL	C312-6W	RDL	C312-7W	RDL	C312-13W	RDL	QC Batch
Elements										
Total Arsenic (As)	mg/L	0.0044	0.0010	0.0032	0.0010	0.0053	0.0010	0.0038	0.0010	6132618
Total Chromium (Cr)	mg/L	0.079	0.0010	0.018	0.0010	0.18	0.0010	0.020	0.0010	6132618
Total Cobalt (Co)	mg/L	0.0091	0.00030	0.0044	0.00030	0.0047	0.00030	0.0033	0.00030	6132618
Total Copper (Cu)	mg/L	0.032	0.00020	0.021	0.00020	0.020	0.00020	0.012	0.00020	6132618
Total Lead (Pb)	mg/L	0.0063	0.00020	0.0057	0.00020	0.0063	0.00020	0.0052	0.00020	6132618
Total Nickel (Ni)	mg/L	0.13	0.00050	0.031	0.00050	0.094	0.00050	0.015	0.00050	6132618
Total Zinc (Zn)	mg/L	3.0 ⁽¹⁾	0.0075	0.40	0.0030	1.8	0.0030	0.48	0.0030	6132618
Low Level Elements										
Total Mercury (Hg)	ug/L	0.078	0.0020	0.039	0.0020	0.059 ⁽²⁾	0.0060	0.014	0.0020	6135754

Maxxam ID		EH9869	EH9870	EH9871	EH9872	EH9873		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-14W	C312-15W	C312-BDWI	C312-FB	TRIP BLANK	RDL	QC Batch
Elements								
Total Arsenic (As)	mg/L	0.0043	0.016	0.0037	<0.0010	<0.0010	0.0010	6132618
Total Chromium (Cr)	mg/L	0.025	0.13	0.12	<0.0010	<0.0010	0.0010	6132618
Total Cobalt (Co)	mg/L	0.0035	0.013	0.0034	<0.00030	<0.00030	0.00030	6132618
Total Copper (Cu)	mg/L	0.031	0.041	0.017	<0.00020	<0.00020	0.00020	6132618
Total Lead (Pb)	mg/L	0.0075	0.017	0.0057	<0.00020	<0.00020	0.00020	6132618
Total Nickel (Ni)	mg/L	0.034	0.077	0.065	<0.00050	<0.00050	0.00050	6132618
Total Zinc (Zn)	mg/L	0.96	0.15	1.9	0.0030	0.0044	0.0030	6132618
Low Level Elements								
Total Mercury (Hg)	ug/L	0.037	0.024	0.023	<0.0020	0.0025	0.0020	6135754

RDL = Reportable Detection Limit

(1) - Detection limits raised due to dilution to bring analyte within the calibrated range.

(2) - Detection limits raised due to matrix interference.

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EXTRACTABLE HYDROCARBONS BY GC-FID (WATER)

Maxxam ID		EH9865	EH9866	EH9867	EH9868		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-5W	C312-6W	C312-7W	C312-13W	RDL	QC Batch
Extractable Hydrocarbons							
Undecanes (C11)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Dodecanes (C12)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Triadecanes (C13)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Tetradecanes (C14)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Pentadecanes (C15)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Hexadecanes (C16)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Heptadecanes (C17)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Octadecanes (C18)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Nonadecanes (C19)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Eicosanes (C20)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Heneicosanes (C21)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Docosanes (C22)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Triacosanes (C23)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Tetracosanes (C24)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Pentacosanes (C25)	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Hexacosanes (C26)	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Heptacosanes (C27)	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Octacosanes (C28)	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Nonacosanes (C29)	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Triacotanes (C30)	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
C 31	mg/L	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Dotriacontanes (C32)	mg/L	<0.040	<0.040	<0.040	<0.040	0.040	6132410
Total Extractables C11 to C60	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	6132410
Surrogate Recovery (%)							
O-TERPHENYL (sur.)	%	121	125	118	120		6132410

RDL = Reportable Detection Limit

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EXTRACTABLE HYDROCARBONS BY GC-FID (WATER)

Maxxam ID		EH9869	EH9870	EH9871	EH9872	EH9873		
Sampling Date		2012/08/22	2012/08/22	2012/08/22	2012/08/22	2012/08/22		
COC#		324000-01-01	324000-01-01	324000-01-01	324000-01-01	324000-01-01		
	UNITS	C312-14W	C312-15W	C312-BDWI	C312-FB	TRIP BLANK	RDL	QC Batch
Extractable Hydrocarbons								
Undecanes (C11)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Dodecanes (C12)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Triadecanes (C13)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Tetradecanes (C14)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Pentadecanes (C15)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Hexadecanes (C16)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Heptadecanes (C17)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Octadecanes (C18)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Nonadecanes (C19)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Eicosanes (C20)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Heneicosanes (C21)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Docosanes (C22)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Triacosanes (C23)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Tetracosanes (C24)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	6132410
Pentacosanes (C25)	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Hexacosanes (C26)	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Heptacosanes (C27)	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Octacosanes (C28)	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Nonacosanes (C29)	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Triacotanes (C30)	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
C 31	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	6132410
Dotriacontanes (C32)	mg/L	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	6132410
Total Extractables C11 to C60	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	6132410
Surrogate Recovery (%)								
O-TERPHENYL (sur.)	%	117	95	75	113	123		6132410

RDL = Reportable Detection Limit



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Sampler Initials: AP

Package 1	5.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

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Client Project #: DLCU, LANDFILL MONITORING
Site Location: CAM-3 SHEPHERD BAY
Your P.O. #: 2012 KITIKMEOT
Sampler Initials: AP

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6124901	NONACHLOROBIPHENYL (sur.)	2012/08/30			87	30 - 130	84	%		
6124901	Aroclor 1260	2012/08/30			106	30 - 130	<0.000050	mg/L		
6124901	Aroclor 1016	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1221	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1232	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1242	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1248	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1254	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1262	2012/08/30					<0.000050	mg/L		
6124901	Aroclor 1268	2012/08/30					<0.000050	mg/L		
6124901	Total Aroclors	2012/08/30					<0.000050	mg/L		
6132409	O-TERPHENYL (sur.)	2012/09/02	126	50 - 130	124	50 - 130	121	%		
6132409	F2 (C10-C16 Hydrocarbons)	2012/09/02	96	50 - 130	110	70 - 130	<0.10	mg/L	NC	40
6132409	F3 (C16-C34 Hydrocarbons)	2012/09/02	92	50 - 130	115	70 - 130	<0.10	mg/L	NC	40
6132409	F4 (C34-C50 Hydrocarbons)	2012/09/02	75	50 - 130	114	70 - 130	<0.10	mg/L	NC	40
6132410	O-TERPHENYL (sur.)	2012/09/02	126	50 - 130	124	50 - 130	121	%		
6132410	Total Extractables C11 to C60	2012/09/02	130	50 - 130	118	70 - 130	<0.60	mg/L	NC	40
6132410	Undecanes (C11)	2012/09/02					<0.020	mg/L	NC	40
6132410	Dodecanes (C12)	2012/09/02					<0.020	mg/L	NC	40
6132410	Triadecanes (C13)	2012/09/02					<0.020	mg/L	NC	40
6132410	Tetradecanes (C14)	2012/09/02					<0.020	mg/L	NC	40
6132410	Pentadecanes (C15)	2012/09/02					<0.020	mg/L	NC	40
6132410	Hexadecanes (C16)	2012/09/02					<0.020	mg/L	NC	40
6132410	Heptadecanes (C17)	2012/09/02					<0.020	mg/L	NC	40
6132410	Octadecanes (C18)	2012/09/02					<0.020	mg/L	NC	40
6132410	Nonadecanes (C19)	2012/09/02					<0.020	mg/L	NC	40
6132410	Eicosanes (C20)	2012/09/02					<0.020	mg/L	NC	40
6132410	Heneicosanes (C21)	2012/09/02					<0.020	mg/L	NC	40
6132410	Docosanes (C22)	2012/09/02					<0.020	mg/L	NC	40
6132410	Triacosanes (C23)	2012/09/02					<0.020	mg/L	NC	40
6132410	Tetracosanes (C24)	2012/09/02					<0.020	mg/L	NC	40
6132410	Pentacosanes (C25)	2012/09/02					<0.030	mg/L	NC	40
6132410	Hexacosanes (C26)	2012/09/02					<0.030	mg/L	NC	40
6132410	Heptacosanes (C27)	2012/09/02					<0.030	mg/L	NC	40
6132410	Octacosanes (C28)	2012/09/02					<0.030	mg/L	NC	40
6132410	Nonacosanes (C29)	2012/09/02					<0.030	mg/L	NC	40
6132410	Triacotanes (C30)	2012/09/02					<0.030	mg/L	NC	40
6132410	C 31	2012/09/02					<0.030	mg/L	NC	40
6132410	Dotriacotanes (C32)	2012/09/02					<0.040	mg/L	NC	40

Maxxam Job #: B276781
Report Date: 2012/09/05

EGE ENGINEERING LTD.
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Your P.O. #: 2012 KITIKMEOT
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QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
6132618	Total Arsenic (As)	2012/09/01	95	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
6132618	Total Chromium (Cr)	2012/09/01	NC	80 - 120	99	80 - 120	<0.0010	mg/L	2.7	20
6132618	Total Cobalt (Co)	2012/09/01	85	80 - 120	102	80 - 120	<0.00030	mg/L	1.8	20
6132618	Total Copper (Cu)	2012/09/01	NC	80 - 120	101	80 - 120	<0.00020	mg/L	2.2	20
6132618	Total Lead (Pb)	2012/09/01	93	80 - 120	97	80 - 120	<0.00020	mg/L	1.3	20
6132618	Total Nickel (Ni)	2012/09/01	NC	80 - 120	102	80 - 120	<0.00050	mg/L	1.5	20
6132618	Total Zinc (Zn)	2012/09/01	NC	80 - 120	104	80 - 120	<0.0030	mg/L	4.3	20
6135754	Total Mercury (Hg)	2012/09/04	115	80 - 120	87	80 - 120	0.0034, RDL=0.0020	ug/L	NC	20
6136461	1,4-Difluorobenzene (sur.)	2012/09/04	98	70 - 130	94	70 - 130	105	%		
6136461	4-BROMOFLUOROBENZENE (sur.)	2012/09/04	99	70 - 130	101	70 - 130	94	%		
6136461	D4-1,2-DICHLOROETHANE (sur.)	2012/09/04	113	70 - 130	125	70 - 130	128	%		
6136461	Benzene	2012/09/04	103	70 - 130	108	70 - 130	<0.40	ug/L	4.8	40
6136461	Toluene	2012/09/04	105	70 - 130	107	70 - 130	<0.40	ug/L	0.4	40
6136461	Ethylbenzene	2012/09/04	99	70 - 130	102	70 - 130	<0.40	ug/L	1.3	40
6136461	o-Xylene	2012/09/04	99	70 - 130	101	70 - 130	<0.40	ug/L	1.3	40
6136461	m & p-Xylene	2012/09/04	101	70 - 130	103	70 - 130	<0.80	ug/L	1.2	40
6136461	(C6-C10)	2012/09/04	123	70 - 130	127	70 - 130	<100	ug/L	3.9	40
6136461	Xylenes (Total)	2012/09/04					<0.80	ug/L	1.2	40
6136461	F1 (C6-C10) - BTEX	2012/09/04					<100	ug/L	4.7	40

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

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

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

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

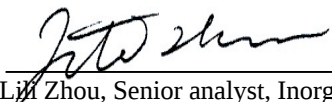
Validation Signature Page

Maxxam Job #: B276781

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



Luba Shymushovska, Senior Analyst, Organic Department



Li Zhou, Senior analyst, Inorganic department.

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

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory Use Only:						
Company Name:	#4781 SILA REMEDIATION	Company Name:	#25854 EGE ENGINEERING LTD.	Quotation #:	A90192	MAXXAM JOB #:	BOTTLE ORDER #:					
Contact Name:	ACCOUNTS PAYABLE	Contact Name:	ANDREW PASSALIS	P.O. #:	2012 KITIKMEOT	B276781	324000					
Address:	4495 WILFRID-HAMEL BLVD, SUITE 200, QUEBE QUEBEC PQ GIP 2T7	Address:	511 PEPPERLOAF CRESCENT WINNIPEG MB R3R 1E6	Project #:	DLCU/Landfill Monitoring	CHAIN OF CUSTODY #:	PROJECT MANAGER:					
Phone:	(418)653-4422 x5485 Fax:	Phone:	(204)791-4938 Fax: (204)837-6473	Project Name:	CAM-3 SHEPHERD BAY	C#324000-01-01	Tanya Eugene					
Email:		Email:	apassalis@mts.net; avallieres@biogenie-env.com	Site #:	A.P.							
REGULATORY CRITERIA:		SPECIAL INSTRUCTIONS		ANALYSIS REQUESTED (Please be specific):		TURNAROUND TIME (TAT) REQUIRED:						
☐ ATI ☐ CCME ☐ OTHER				Metals Field Filtered? (Y/N) Regulated Metals (CCME/ATI) - Soils BTEX F1-F4 Total Metals and Total Mercury - Water PCB TCH (C6-C32)		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS Regular (Standard) TAT: (will be applied if Rush TAT is not specified). Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: Rush Confirmation Number: (call lab for #)						
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM												
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)	Regulated Metals (CCME/ATI) - Soils	BTEX F1-F4	Total Metals and Total Mercury - Water	PCB	TCH (C6-C32)	# of Bottles	Comments
1	C312-5w	22/8/12		w				X	X	X	8	
2	-6w			w				X	X	X		
3	-7w							X	X	X		
4	C312-13w							X	X	X		
5	-14w							X	X	X		
6	-15w							X	X	X		
7	C312-BDWI							X	X	X		
8	-FB							X	X	X		
9	TRIP BLANK							X	X	X		
10												

ARRIVED AT DEPOT
 AUG 27 2012 3:00
 TEMP: 5.5/5.1
 A.9M

TOTAL METALS
 As, Co, Cu, Cr, Ni,
 Pb, Hg, Zn

*RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time:	# Jars Used and	Laboratory Use Only		
C. H.		7/3/8/12		Brandon R...		2012/08/25	15:52	Not Submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
									☐		☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** ALL SAMPLES ARE HELD FOR 90 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Maxxam - Yellow: Client