



Analytical Report

Norwest Labs
7217 Roper Road
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By:
Company:

Project
ID:
Name: Ekalugad
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 332075
Control Number:
Date Received: Sep 13, 2004
Date Reported: Sep 28, 2004
Report Number: 594363

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		NWL Number	332075-124	332075-125	332075-126	
		Sample Description	RS-2	WLS-1	WLS-2	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Hot Water Soluble						
Boron	Water Soluble	mg/kg	0.4	<0.1	<0.1	0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	<0.01	<0.01	<0.01	0.01
Antimony	Strong Acid Extractable	ug/g	0.5	0.8	0.5	0.4
Arsenic	Strong Acid Extractable	ug/g	0.8	2.2	<0.5	0.5
Barium	Strong Acid Extractable	ug/g	18.2	29.4	25.8	0.05
Beryllium	Strong Acid Extractable	ug/g	0.15	0.16	0.22	0.03
Cadmium	Strong Acid Extractable	ug/g	0.03	0.06	0.03	0.03
Cobalt	Strong Acid Extractable	ug/g	12.7	17.2	11.2	0.05
Copper	Strong Acid Extractable	ug/g	1.87	2.90	1.46	0.04
Lead	Strong Acid Extractable	ug/g	6.86	11.3	4.39	0.05
Molybdenum	Strong Acid Extractable	ug/g	2.2	3.2	1.5	0.1
Nickel	Strong Acid Extractable	ug/g	0.1	0.5	<0.1	0.1
Selenium	Strong Acid Extractable	ug/g	5.72	9.98	4.77	0.05
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.3
Thallium	Strong Acid Extractable	ug/g	<0.05	<0.05	<0.05	0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.4
Vanadium	Strong Acid Extractable	ug/g	2.1	2.0	1.9	0.3
Zinc	Strong Acid Extractable	ug/g	11.8	15.0	9.11	0.05
			14.7	20.3	15.6	0.05

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		NWL Number	332075-125	332075-126		
		Sample Description	WLS-1	WLS-2		
		Matrix	Soil - general	Soil - general		
Analyte		Units	Results	Results	Results	Detection Limit
Polynuclear Aromatic Hydrocarbons - Soil						
Naphthalene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Acenaphthylene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Acenaphthene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Fluorene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Phenanthrene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Anthracene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Fluoranthene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Pyrene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Benzo(a)anthracene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Chrysene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Benzo(b)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Benzo(j)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Benzo(k)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Benzo(a)pyrene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Dibenzo(a,h)anthracene	Dry Weight	mg/kg	<0.05	<0.05		0.05
Benzo(g,h,i)perylene	Dry Weight	mg/kg	<0.05	<0.05		0.05
CB(a)P	Carcinogenic Potency Equivalent	mg/kg	<0.05	<0.05		0.05
PAH - Soil - Surrogate Recovery						
Nitrobenzene-d5	PAH - Surrogate	%	86	127		23-130
2-Fluorobiphenyl	PAH - Surrogate	%	72	106		30-130
p-Terphenyl-d14	PAH - Surrogate	%	66	135		18-137



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		NWL Number	332075-125	332075-126	332075-127	
		Sample Description	WLS-1	WLS-2	FC Background	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
Benzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Ethylbenzene	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Total Xylenes (m,p,o)	Dry Weight	mg/kg	<0.02	<0.02	<0.02	0.02
Volatile Petroleum Hydrocarbons - Soil						
Extraction Date			16-Sep-04	16-Sep-04	16-Sep-04	
F1 C6-C10	Dry Weight	mg/kg	<1	<1	<1	1
TEX	Dry Weight	mg/kg	<1	<1	<1	1
Extractable Petroleum Hydrocarbons - Soxhlet						
Extraction Date			17-Sep-04	17-Sep-04	17-Sep-04	
F2 C10-C16	Dry Weight	mg/kg	<10	<10	<10	10
F3 C16-C34	Dry Weight	mg/kg	26	<10	36	10
F4 C34-C50	Dry Weight	mg/kg	12	<10	46	10
F4HTGC C34-C50+	Dry Weight	mg/kg	17	<10	94	10
% C50+		%	0.0	0.0	36.6	
Silica Gel Cleanup						
Silica Gel Cleanup			Done	Done	Done	
Soil % Moisture						
Moisture	Soil % Moisture	%	17.80	13.20	25.10	



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		NWL Number	332075-126	332075-127	332075-130	
		Sample Description	WLS-2	FC Background	US-1037 / 145	
		Matrix	Soil - general	Soil - general	Soil - general	
Analyte		Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Soil						
Aroclor 1016	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1221	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1232	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1242	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1248	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Aroclor 1254	Dry Weight	mg/kg	<0.1	<0.1	0.2	0.1
Aroclor 1260	Dry Weight	mg/kg	<0.1	<0.1	0.4	0.1
Aroclor 1262	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
lor 1268	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.1
Total PCBs	Dry Weight	mg/kg	<0.1	<0.1	0.6	0.1
Polychlorinated Biphenyls - Soil - Surrogate						
Decachlorobiphenyl	Surrogate	%	97	96	116	50-150



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		NWL Number	332075-127	332075-128		
		Sample Description	FC Background	US-NW Stains Comp		
		Matrix	Soil - general	Soil - general		
Analyte		Units	Results	Results	Results	Detection Limit
Hot Water Soluble						
Boron	Water Soluble	mg/kg	0.3	0.2		0.1
Metals Strong Acid Extractable						
Mercury	Strong Acid Extractable	ug/g	<0.01	0.05		0.01
Antimony	Strong Acid Extractable	ug/g	2.4	1.4		0.4
Arsenic	Strong Acid Extractable	ug/g	2.0	<0.5		0.5
Barium	Strong Acid Extractable	ug/g	126	66.9		0.05
Beryllium	Strong Acid Extractable	ug/g	0.39	0.12		0.03
Cadmium	Strong Acid Extractable	ug/g	0.10	0.11		0.03
Cobalt	Strong Acid Extractable	ug/g	72.5	21.0		0.05
Copper	Strong Acid Extractable	ug/g	10.7	3.74		0.04
Lead	Strong Acid Extractable	ug/g	25.8	8.34		0.05
Molybdenum	Strong Acid Extractable	ug/g	10.5	11.8		0.1
Nickel	Strong Acid Extractable	ug/g	1.0	0.3		0.1
Selenium	Strong Acid Extractable	ug/g	29.9	7.95		0.05
Silver	Strong Acid Extractable	ug/g	0.3	<0.2		0.3
Thallium	Strong Acid Extractable	ug/g	0.07	<0.05		0.05
Tin	Strong Acid Extractable	ug/g	<0.3	<0.3		0.4
Vanadium	Strong Acid Extractable	ug/g	2.6	2.0		0.3
Zinc	Strong Acid Extractable	ug/g	63.8	17.3		0.05
	Strong Acid Extractable	ug/g	82.4	28.5		0.05

Approved by:

Anthony Neumann, MSc
Laboratory Operations Manager



Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
1:5 Water Soluble Extraction	APHA	* Colorimetric Method, 3500-Cr B	17-Sep-04	Norwest Labs Edmonton
1:5 Water Soluble Extraction	APHA	* Colorimetric Method, 3500-Cr B	21-Sep-04	Norwest Labs Edmonton
Boron in general soil	McKeague	* Hot Water Soluble Boron - Azomethine-H Method, 4.61	15-Sep-04	Norwest Labs Edmonton
Boron in general soil	McKeague	* Hot Water Soluble Boron - Azomethine-H Method, 4.61	15-Sep-04	Norwest Labs Edmonton
Boron in general soil	McKeague	* Hot Water Soluble Boron - Azomethine-H Method, 4.61	16-Sep-04	Norwest Labs Edmonton
Boron in general soil	McKeague	* Hot Water Soluble Boron - Azomethine-H Method, 4.61	16-Sep-04	Norwest Labs Edmonton
on in general soil	McKeague	* Hot Water Soluble Boron - Azomethine-H Method, 4.61	22-Sep-04	Norwest Labs Edmonton
BTEX-CCME - Soil	CCME	Reference Method - Canada-Wide Standard for PHC in Soil, CWS PHC	18-Sep-04	Norwest Labs Calgary
BTEX-CCME - Soil	CCME	Reference Method - Canada-Wide Standard for PHC in Soil, CWS PHC	20-Sep-04	Norwest Labs Calgary
Mercury (Hot Block) in Soil	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	15-Sep-04	Norwest Labs Edmonton
Mercury (Hot Block) in Soil	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	16-Sep-04	Norwest Labs Edmonton
Mercury (Hot Block) in Soil	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	17-Sep-04	Norwest Labs Edmonton
Metals Trace (Hot Block) in soil	SW-846	* Acid Digestion of Sediments, Sludges, and Soils, EPA 3050B	14-Sep-04	Norwest Labs Edmonton
Metals Trace (Hot Block) in soil	SW-846	* Acid Digestion of Sediments, Sludges, and Soils, EPA 3050B	14-Sep-04	Norwest Labs Edmonton
Metals Trace (Hot Block) in soil	SW-846	* Acid Digestion of Sediments, Sludges, and Soils, EPA 3050B	14-Sep-04	Norwest Labs Edmonton
PAH - Soil	US EPA	* US EPA method, 8270	20-Sep-04	Norwest Labs Calgary
PAH - Soil	US EPA	* US EPA method, 8270	20-Sep-04	Norwest Labs Calgary
PCB - Soil	US EPA	* US EPA method, 8082	24-Sep-04	Norwest Labs Calgary
PCB - Soil	US EPA	* US EPA method, 8082	27-Sep-04	Norwest Labs Calgary
TEH-CCME-Soil (Soxhlet)	CCME	Reference Method - Canada-Wide Standard for PHC in Soil, CWS PHC	18-Sep-04	Norwest Labs Calgary

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory



NORWEST LABS

332243(3pg) Control Number **E 94767**
Environmental Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
 See reverse for your nearest Norwest location and proper sampling protocol

Printing Address: ☒ QA/QC Report ☒		Copy of Report To: Company: _____ Address: _____		Copy of invoice: ☐ Mail invoice to this address for approval ☐	
Company: Earth Tech Canada Inc. Address: 17203 - 103 Avenue Edmonton, AB T5S 1J4		Report Result: Fax ☐ Mail ☐ Courier ☐ e-mail ☐		Attention: Environmental Group Phone: (780) 488-6800 Fax: (780) 488-2121 Cell: _____ e-mail: gwoollett@earthtech.ca	

Information to be included on Report and Invoice Project ID: 78850 Project Name: Ekalugad materials Project Location: Ekalugad Legal Location: _____ PO#: 131-1739 Proj. Acct. Code: 78850 Agreement ID: 40857	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated ☐ or ☐ Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print) Sampled by: UAM Date: 09/09/04 Company: ETC Signature: [Signature] Relinquished by: _____ Company: _____ Date: _____ Waybill number: _____ Received by: _____ Company: _____ Date: _____
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Special Instructions / Comments ☐ Check here if Norwest is required to report results directly to a regulatory body (Please include contact information)

Sample Identification	Location	Depth IN CM M	Date / Time Sampled	Matrix	Sampling Method	Number of Containers Lead in paint PCB in paint Asbestos									
						Enter tests above (✓ relevant samples below)									
1 US-MTPS-01		—				X	X								
2 US-MTPS-02		—				X	X								
3 US-MTPS-03		—				X	X								
4 US-MTPS-04		—				X	X								
5 US-MTPS-05		—				X	X								
6 US-MTPS-05C		—				X	X								
7 US-MTPS-06		—				X	X								
8 US-MTPS-06A		—				X	X								
9 US-MTPS-07		—				X	X								
10 US-WPS-08		—				X	X								
11 US-WPS-09		—				X	X								
12 US-WPS-10		—				X	X								
13 US-WPS-11		—				X	X								
14 US-WPS-12		—				X									
15 US-WPS-13		—				X									



NORWEST LABS

Control Number **E 94768**

Environmental Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address: Company: Earth Tech Canada Inc. Address: 17203 - 103 Avenue Edmonton, AB T5S 1J4 Attention: Environmental Group Phone: (780) 488-6800 Fax: (780) 488-2121 Cell: e-mail: gwoollett@earthtech.ca		Copy of Report To: Company: Address: Report Result: Fax ☐ Mail ☐ Courier ☐ e-mail ☐	Copy of Invoice: Mail invoice to this address for approval ☐ Report Result: Fax ☐ Mail ☐ Courier ☐ e-mail ☐
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Information to be included on Report and Invoice Project ID: 78850 Project Name: Ekalugad Fjord Project Location: Ekalugad Legal Location: PO#: 131-1739 Proj. Acct. Code: 78850 Agreement ID: 40857	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated ☐ or ☐ Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print) Sampled by: MAM Date 09/09/04 Company ETC Signature MAM Relinquished by: _____ Date _____ Company _____ Waybill number: _____ Received by: _____ Company _____ Date _____
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<table border="1"><thead><tr><th rowspan="2">Sample Identification</th><th rowspan="2">Location</th><th rowspan="2">Depth IN CM M</th><th rowspan="2">Date / Time Sampled</th><th rowspan="2">Matrix</th><th rowspan="2">Sampling Method</th><th colspan="10">Number of Containers</th></tr><tr><th>Lead in paint</th><th>PCB in paint</th><th>Asbestos</th><th>PCB in concrete</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>1 US-GPS-GPS-14</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2 US-GPS-15</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3 US-GCS-16</td><td></td><td>—</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4 US-GPS-17</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5 US-MTEPS-18</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6 US-MTPS-19</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7 US-MTEPS-20</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8 US-IMPS-21</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9 US-ANTPS-22</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10 US-2HP-23</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11 MS-HMPS-24</td><td></td><td>—</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12 US-MTAS-01</td><td></td><td>—</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>13 US-MTAS-02</td><td></td><td>—</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>14 US-MTAS-03</td><td></td><td>—</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>15 US-MTAS-04</td><td></td><td>—</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>							Sample Identification	Location	Depth IN CM M	Date / Time Sampled	Matrix	Sampling Method	Number of Containers										Lead in paint	PCB in paint	Asbestos	PCB in concrete									1 US- GPS -GPS-14		—				X	X											2 US-GPS-15		—				X	X											3 US-GCS-16		—							X									4 US-GPS-17		—				X	X											5 US-MTEPS-18		—				X												6 US-MTPS-19		—				X												7 US-MTEPS-20		—				X	X											8 US-IMPS-21		—				X	X											9 US-ANTPS-22		—				X	X											10 US-2HP-23		—				X	X											11 MS-HMPS-24		—				X	X											12 US-MTAS-01		—								X								13 US-MTAS-02		—								X								14 US-MTAS-03		—								X								15 US-MTAS-04		—								X							
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15 US-MTAS-04		—								X																																																																																																																																																																																																																																																																																																						

NOTE: All hazardous samples must be labelled according to WHMIS guidelines.
Accredited by the Standards Council of Canada for specific tests

Page **2** of **46**
##



Environmental Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address: Company: Earth Tech Canada Inc. Address: 17203-103 Avenue Edmonton, AB T5S 1J4 Attention: Environmental Group Phone: (780) 488-6800 Fax: (780) 488-2121 Cell: e-mail: gwoollett@earthtech.ca		QA/QC Report ☒	Copy of Report To: Company: Earth Tech Address: Attention: Phone: Fax: Cell: e-mail:	Copy of invoice: ☐ Mail invoice to this address for approval ☐ Report Result: Fax ☐ Mail ☐ Courier ☐ e-mail ☐
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Information to be included on Report and Invoice Project ID: 78850 Project Name: Ekalugad Fjord Project Location: Ekalugad Legal Location: PO#: 131-1739 Proj. Acct. Code: Agreement ID: 40857	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated ☐ or ☐ Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print) Sampled by: MAM Date Sept 9 '04 Company ETC Signature M. M. Relinquished by: _____ Date _____ Company _____ Date _____ Waybill number: _____ Received by: _____ Company _____ Date _____
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Special Instructions / Comments ☐ Check here if Norwest is required to report results directly to a regulatory body (Please include contact information)	<table border="1" style="width:100%"> <tr> <th rowspan="2">Sample Identification</th> <th rowspan="2">Location</th> <th rowspan="2">Depth IN CM M</th> <th rowspan="2">Date / Time Sampled</th> <th rowspan="2">Matrix</th> <th rowspan="2">Sampling Method</th> <th rowspan="2">Number of Containers ↓</th> <th colspan="10">Enter tests above (✓ relevant samples below)</th> </tr> <tr> <th>Lead in paint</th> <th>PCB in paint</th> <th>Asbestos</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> <tr><td>1 BAT USMTAS-05</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2 USMTAS-06</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3 USGAS-07</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7 4 WL-HUT</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5 BAT-LBP-01</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2 6 BAT-LBP-02</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Sample Identification	Location	Depth IN CM M	Date / Time Sampled	Matrix	Sampling Method	Number of Containers ↓	Enter tests above (✓ relevant samples below)										Lead in paint	PCB in paint	Asbestos											1 BAT USMTAS-05																					2 USMTAS-06																					3 USGAS-07																					7 4 WL-HUT							X	X													5 BAT-LBP-01							X	X													2 6 BAT-LBP-02							X	X													7																					8																					9																					10																					11																					12																					14																					15																				
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**NORWEST
LABS**

Report Transmission Cover Page

Norwest Labs
7217 Roper Road
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By: MAM
Company: ETC

Project
ID: 78850
Name: Ekalugad Materials
Location: Ekalugad
LSD:
P.O.: 131-1739
Acct. Code: 78850

NWL Lot ID: **332243**
Control Number: E 94767
Date Received: Sep 13, 2004
Date Reported: Sep 24, 2004
Report Number: 594632

Lot Notes

Sample Notes:

Notes to Clients

Lot Notes:

09/16/04 HMG - Samples -10,11,12,14,15,20,21 were cancelled for PCBs due to insufficient sample volumes.

Insufficient sample available to complete analysis for lead in paint. DL Sept 24 04.

Sample Notes:

Batch Notes:

Method Notes:

Method Result Notes:

Reports associated with this Lot

Id/Format/Reported Date

594632 Envir2QC 3 Smp & DL

Id/Format/Reported Date

Id/Format/Reported Date

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.

9/24/2004 4:31:55PM

9/21/04 **594632** 21-Sep-2004



Analytical Report

Norwest Labs
7217 Roper Road
Edmonton, AB. T6B 3J4
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Page: 1 of 7

		NWL Number	332243-1	332243-2	332243-3
		Sample Description	US-MTPS-01	US-MTPS-02	US-MTPS-03
		Matrix	Waste - industrial	Waste - industrial	Waste - industrial
Analyte	Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	4760	3910	4660	0.5
Aroclor 1260	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
lor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	4760.0	3910.0	4660.0	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl	Surrogate %	110	105	125	50-150

		NWL Number	332243-4	332243-5	332243-6
		Sample Description	US-MTPS-04	US-MTPS-05	US-MTPS-05C
		Matrix	Waste - industrial	Waste - industrial	Waste - industrial
Analyte	Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	3520	14000	42600	0.5
Aroclor 1260	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	3520.0	14000.0	42600.0	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl	Surrogate %	123	140	104	50-150



**NORWEST
LABS**

Analytical Report

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		NWL Number	332243-7	332243-8	332243-9
		Sample Description	US-MTPS-06	US-MTPS-06A	US-MTPS-07
		Matrix	Waste - industrial	Waste - industrial	Waste - industrial
Analyte	Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	2480	3.3	11700	0.5
Aroclor 1260	mg/kg	6590	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	9070.0	3.3	11700.0	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl	Surrogate	%	125	130	127
					50-150

		NWL Number	332243-13	332243-16	332243-17
		Sample Description	US-WPS-11	US-GPS-14	US-GPS-15
		Matrix	Waste - industrial	Waste - industrial	Waste - industrial
Analyte	Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	3890	18000	1660	0.5
Aroclor 1260	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	3890.0	18000.0	1660.0	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl	Surrogate	%	89	120	129
					50-150



Analytical Report

Norwest Labs
7217 Roper Road
Edmonton, AB. T6B 3J4
Phone: (780) 438-5522
Fax: (780) 438-0396

Bill to: Earth Tech Canada Inc.
Report to: Earth Tech Canada Inc.
17203 - 103 Avenue
Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
Sampled By: MAM
Company: ETC

Project
ID: 78850
Name: Ekalugad Materials
Location: Ekalugad
LSD:
P.O.: 131-1739
Acct. Code: 78850

NWL Lot ID: 332243
Control Number: E 94767
Date Received: Sep 13, 2004
Date Reported: Sep 24, 2004
Report Number: 594632

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NWL Number		332243-18	332243-19	332243-22	Detection Limit
Sample Description		US-GCS-16	US-GPS-17	US-MTEPS-20	
Matrix		Waste - industrial	Waste - industrial	Waste - industrial	
Analyte	Units	Results	Results	Results	
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	35.9	352	2.5	0.5
Aroclor 1260	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	35.9	352.0	2.5	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl Surrogate	%	103	100	107	50-150

NWL Number		332243-23	332243-24	332243-25	Detection Limit
Sample Description		US-IHPS-21	US-ANTPS-22	US-2HP-23	
Matrix		Waste - industrial	Waste - industrial	Waste - industrial	
Analyte	Units	Results	Results	Results	
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	109	2.2	8.0	0.5
Aroclor 1260	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	109.0	2.2	8.0	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl Surrogate	%	104	116	110	50-150



Analytical Report

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Company: ETC

Project
ID: 78850
Name: Ekalugad Materials
Location: Ekalugad
LSD:
P.O.: 131-1739
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NWL Lot ID: 332243
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		NWL Number	332243-26	332243-27	332243-28
		Sample Description	MS-HHPS-24	WL-HUT	BAT-LBP-01
		Matrix	Waste - industrial	Waste - industrial	Waste - industrial
Analyte	Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Oil					
Aroclor 1016	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1221	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1232	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1242	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1248	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1254	mg/kg	50.8	68.8	2.7	0.5
Aroclor 1260	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1262	mg/kg	<0.5	<0.5	<0.5	0.5
Aroclor 1268	mg/kg	<0.5	<0.5	<0.5	0.5
Total PCBs	mg/kg	50.8	68.8	2.7	0.5
Polychlorinated Biphenyls - Oil - Surrogate					
Decachlorobiphenyl	Surrogate %	114	118	118	50-150

		NWL Number	332243-29			
		Sample Description	BAT-LBP-02			
		Matrix	Waste - industrial			
Analyte		Units	Results	Results	Results	Detection Limit
Polychlorinated Biphenyls - Oil						
Aroclor 1016		mg/kg	<0.5			0.5
Aroclor 1221		mg/kg	<0.5			0.5
Aroclor 1232		mg/kg	<0.5			0.5
Aroclor 1242		mg/kg	<0.5			0.5
Aroclor 1248		mg/kg	<0.5			0.5
Aroclor 1254		mg/kg	6.0			0.5
Aroclor 1260		mg/kg	<0.5			0.5
Aroclor 1262		mg/kg	<0.5			0.5
Aroclor 1268		mg/kg	<0.5			0.5
Total PCBs		mg/kg	6.0			0.5
Polychlorinated Biphenyls - Oil - Surrogate						
Decachlorobiphenyl	Surrogate	%	117			50-150

Approved by:

Randy Neumann, BSc
Vice President, Environmental



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Edmonton, AB. T6B 3J4
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Project	
ID:	78850
Name:	Ekalugad Materials
Location:	Ekalugad
LSD:	
P.O.:	131-1739
Acct. Code:	78850

NWL Lot ID: 332243
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Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Lead	ug/g		0.0	0.0	0.0	✓
Material Used:	Edmonton Method Blank					
Date Acquired:	Sep 24, 2004					
Acquired By:						
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Lead	ug/g	UNDEFINED		20.0	0.3	✓
Material Used:	Edmonton Duplicate					
Date Acquired:	Sep 24, 2004					
Acquired By:						
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Lead	ug/g		11.9	9.7	14.1	✓
Material Used:	Metals Soils					
Date Acquired:	Sep 24, 2004					
Acquired By:						

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aroclor 1016	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1221	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1232	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1242	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1248	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1254	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1260	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1262	mg/kg		0.0	-0.2	0.2	✓
Aroclor 1268	mg/kg		0.0	-0.2	0.2	✓
Material Used:	Method Blank - SV					
Date Acquired:	Sep 16, 2004					
Acquired By:						

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Decachlorobiphenyl	µg		1.00	1.0	1.90	✓
Material Used:	Method Blank - SV					
Date Acquired:	Sep 16, 2004					
Acquired By:						



Quality Control

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Edmonton, AB, Canada
T5S 1J4
Attn: Environmental Group
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Company: ETC

Project
ID: 78850
Name: Ekalugad Materials
Location: Ekalugad
LSD:
P.O.: 131-1739
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NWL Lot ID: 332243
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Polychlorinated Biphenyls - Oil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aroclor 1016	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1221	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1232	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1242	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1248	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1254	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1260	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1262	mq/kg	<0.5	0.0	-0.8	0.8	✓
Aroclor 1268	mq/kg	<0.5	0.0	-0.8	0.8	✓

Material Used: Method Blank - SV

Date Acquired: Sep 17, 2004

Acquired By:

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Aroclor 1254	ug/mL	0.9	1	90	70-130	✓

Material Used: Calibration Check - PCBs

Date Acquired: Sep 17, 2004

Acquired By: Inna Kazakov

Polychlorinated Biphenyls - Oil - Surrogate

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Decachlorobiphenyl	%	70	100	10	190	✓

Material Used: Method Blank - SV

Date Acquired: Sep 17, 2004

Acquired By: