



September 24, 2004

Ms. Darlene Lintott
Norwest Labs
7217 Roper Road
Edmonton, AB
T6B 3J4

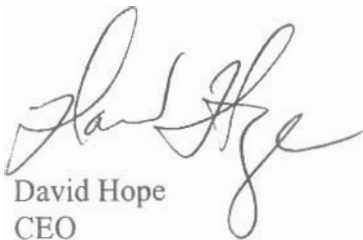
Dear Darlene,

RE: Analysis of tissue samples for PCBs

On September 15, 2004, Pacific Rim Laboratories Inc. (PRL) received five tissue samples from Norwest Labs. The samples were analysed for polychlorinated biphenyls (PCB). The analyses are now complete and the data is reported on the attached sheets.

If you have any questions about your data report, please do not hesitate to contact me.

Sincerely,
Pacific Rim Laboratories Inc.



David Hope
CEO

SAMPLE RECEIPT FORM / CHEMICAL ANALYSIS FORM

FILE #: PR40277

CLIENT: Norwest Labs
7217 Roper Road
Edmonton, Alberta
Canada T6B 3J4

Phone – 780-438-5522.
Fax – 780-438-0396

RECEIVED BY: P. Aceveda
CONDITION: okay

DATE/TIME: September 15, 2004 (3:30 p.m.)

# of Containers	Sample Type	Sample (Client Codes)	Lab Codes	Test Requested
1	tissue	330954-1 (Fish #1)	PR40277	PCB
1	tissue	330954-2 (Fish #2)	PR40278	PCB
1	tissue	330954-3 (Fish #3)	PR40279	PCB
1	tissue	330954-5 (Fish #4)	PR40280	PCB
1	tissue	330954-5 (Fish #5)	PR40281	PCB

STORAGE: Stored at 4 °C
ANALYTES: HRGC/HRMS analysis for PCB

SPECIAL INSTRUCTIONS: none

METHODOLOGY

Reference Method: PCB: SOP LAB02; EPA Method 1668a
Data summarized in Data Report Attached

Report sent to: Darlene Lintott Date: September 24, 2004

Comments: Surrogate recoveries, the lab blank and all other QA/QC data associated with this analysis were acceptable according to the reference method.

Acronyms used in reporting Polychlorinated Biphenyls (PCBs)

MoCB = Monochlorobiphenyl	HxCB = Hexachlorobiphenyl
DiCB = Dichlorobiphenyl	HpCB = Heptachlorobiphenyl
TrCB = Trichlorobiphenyl	OcCB = Octachlorobiphenyl
TeCB = Tetrachlorobiphenyl	NoCB = Nonachlorobiphenyl
PeCB = Pentachlorobiphenyl	DeCB = Decachlorobiphenyl

Acceptable recoveries for PCB Surrogates - EPA 1668a

Min (%)	Max (%)
25%	150%



Pacific Rim Laboratories Inc. #103, 19575-55A Avenue, Surrey, BC V3S 8P8
Tel: + 604.532.8711 Fax: + 604.532.8712 Email: info@pacificrimlabs.com
www.pacificrimlabs.com

DATA REPORT

Client: Norwest Labs - Edmonton
 Client ID: 330954-1 (Fish #1)
 PRL ID: PR40277

Contact: Darlene Lintott
 Date Extracted: 16-Sep-04
 Date Analysed: 22-Sep-04

Polychlorinated Biphenyls

Homolog Totals	ng/g	DL ng/g
Trichlorobiphenyls	0.25	0.05
Tetrachlorobiphenyls	0.73	0.1
Pentachlorobiphenyls	0.87	0.2
Hexachlorobiphenyls	0.77	0.2
Heptachlorobiphenyls	ND	0.1
Octachlorobiphenyls	ND	0.05
Nonachlorobiphenyls	ND	0.05
Decachlorobiphenyl	ND	0.05

Total PCB **2.6 ng/g**
Lipid **3.1%**

Internal Standard Recovery

Chemical Name	IUPAC #	%
¹³ C ₁₂ -2,2',6'-TrCB	19L	54.1
¹³ C ₁₂ -3,4,4'-TrCB	37L	94.4
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	59.9
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	57.1
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	57.2
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	53.5
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	51.0
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	INT
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	49.0
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OcCB	202L	49.6
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcCB	205L	77.8
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	53.5
¹³ C ₁₂ -DeCB	209L	45.7

ND - none detected

INT - Matrix Interference. Not used for calculation

Patrick Ford 24/09/04
 Authorization



ND - none detected NDR - none detected based on peak ratio
 INT - Matrix Interference. Not used for calculation

DATA REPORT

Client: Norwest Labs - Edmonton
 Client ID: 330954-2 (Fish #2)
 PRL ID: PR40278

Contact: Darlene Lintott
 Date Extracted: 16-Sep-04
 Date Analysed: 22-Sep-04

Polychlorinated Biphenyls

Homolog Totals	ng/g	DL ng/g
Trichlorobiphenyls	ND	0.05
Tetrachlorobiphenyls	0.20	0.1
Pentachlorobiphenyls	ND	0.2
Hexachlorobiphenyls	0.20	0.2
Heptachlorobiphenyls	ND	0.1
Octachlorobiphenyls	ND	0.05
Nonachlorobiphenyls	ND	0.05
Decachlorobiphenyl	ND	0.05

Total PCB **0.40 ng/g**
Lipid **2.7%**

Internal Standard Recovery

Chemical Name	IUPAC #	%
¹³ C ₁₂ -2,2',6'-TrCB	19L	35.1
¹³ C ₁₂ -3,4,4'-TrCB	37L	75.4
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	57.5
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	49.0
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	42.1
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	47.2
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	46.5
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	INT
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	46.2
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OcCB	202L	48.2
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcCB	205L	77.8
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	57.1
¹³ C ₁₂ -DeCB	209L	40.0

ND - none detected

INT - Matrix Interference. Not used for calculation

Pattin/Ped 24/09/04
 Authorization

ND - none detected NDR - none detected based on peak ratio
 INT - Matrix Interference. Not used for calculation



DATA REPORT

Client: Norwest Labs - Edmonton
 Client ID: 330954-3 (Fish #3)
 PRL ID: PR40279

Contact: Darlene Lintott
 Date Extracted: 16-Sep-04
 Date Analysed: 22-Sep-04

Polychlorinated Biphenyls

Homolog Totals	ng/g	DL ng/g
Trichlorobiphenyls	0.19	0.05
Tetrachlorobiphenyls	0.50	0.1
Pentachlorobiphenyls	0.34	0.2
Hexachlorobiphenyls	0.34	0.2
Heptachlorobiphenyls	ND	0.1
Octachlorobiphenyls	ND	0.05
Nonachlorobiphenyls	ND	0.05
Decachlorobiphenyl	ND	0.05

Total PCB **1.37 ng/g**
Lipid **3.1%**

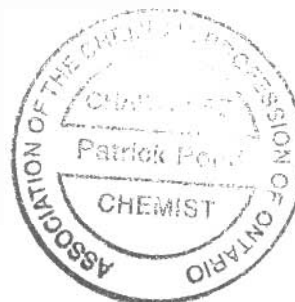
Internal Standard Recovery

Chemical Name	IUPAC #	%
¹³ C ₁₂ -2,2',6'-TrCB	19L	35.9
¹³ C ₁₂ -3,4,4'-TrCB	37L	83.9
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	58.2
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	59.7
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	52.5
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	50.5
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	51.2
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	INT
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	50.1
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OcCB	202L	45.1
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcCB	205L	77.8
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	48.5
¹³ C ₁₂ -DeCB	209L	44.8

ND - none detected

INT - Matrix Interference. Not used for calculation

Patrick Peck 24/09/04
 Authorization



ND - none detected NDR - none detected based on peak ratio
 INT - Matrix Interference. Not used for calculation

DATA REPORT

Client: Norwest Labs - Edmonton
 Client ID: 330954-4 (Fish #4)
 PRL ID: PR40280

Contact: Darlene Lintott
 Date Extracted: 16-Sep-04
 Date Analysed: 22-Sep-04

Polychlorinated Biphenyls

Homolog Totals	ng/g	DL ng/g
Trichlorobiphenyls	0.121	0.05
Tetrachlorobiphenyls	0.26	0.1
Pentachlorobiphenyls	ND	0.2
Hexachlorobiphenyls	ND	0.2
Heptachlorobiphenyls	ND	0.1
Octachlorobiphenyls	ND	0.05
Nonachlorobiphenyls	ND	0.05
Decachlorobiphenyl	ND	0.05

Total PCB 0.38 ng/g
Lipid 1.9%

Internal Standard Recovery

Chemical Name	IUPAC #	%
¹³ C ₁₂ -2,2',6'-TrCB	19L	35.2
¹³ C ₁₂ -3,4,4'-TrCB	37L	59.0
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	52.5
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	52.2
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	50.8
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	51.5
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	51.6
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	INT
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	42.8
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OcCB	202L	42.0
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcCB	205L	77.8
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	44.0
¹³ C ₁₂ -DeCB	209L	38.4

ND - none detected

INT - Matrix Interference. Not used for calculation

Patrick Pond 24/09/04
 Authorization



ND - none detected NDR - none detected based on peak ratio
 INT - Matrix Interference. Not used for calculation

DATA REPORT

Client: Norwest Labs - Edmonton
 Client ID: 330954-5 (Fish #5)
 PRL ID: PR40281

Contact: Darlene Lintott
 Date Extracted: 16-Sep-04
 Date Analysed: 22-Sep-04

Polychlorinated Biphenyls

Homolog Totals	ng/g	DL ng/g
Trichlorobiphenyls	0.12	0.05
Tetrachlorobiphenyls	0.24	0.1
Pentachlorobiphenyls	ND	0.2
Hexachlorobiphenyls	ND	0.2
Heptachlorobiphenyls	ND	0.1
Octachlorobiphenyls	ND	0.05
Nonachlorobiphenyls	ND	0.05
Decachlorobiphenyl	ND	0.05

Total PCB 0.36 ng/g
Lipid 2.5%

Internal Standard Recovery

Chemical Name	IUPAC #	%
¹³ C ₁₂ -2,2',6'-TrCB	19L	51.0
¹³ C ₁₂ -3,4,4'-TrCB	37L	83.8
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	75.1
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	73.5
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	70.2
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	69.7
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	65.5
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	INT
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	55.8
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OcCB	202L	56.0
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcCB	205L	77.8
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	62.4
¹³ C ₁₂ -DeCB	209L	46.9

ND - none detected

INT - Matrix Interference. Not used for calculation

Patrick Pond 24/09/04
 Authorization



ND - none detected NDR - none detected based on peak ratio
 INT - Matrix Interference. Not used for calculation

DATA REPORT - Revised

Client: Norwest Labs - Edmonton
 Client ID: Blank
 PRL ID: PC04393B

Contact: Darlene Lintott
 Date Extracted: 16-Sep-04
 Date Analysed: 22-Sep-04

Polychlorinated Biphenyls

Homolog Totals	ng/g	DL ng/g
Trichlorobiphenyls	ND	0.05
Tetrachlorobiphenyls	ND	0.1
Pentachlorobiphenyls	ND	0.2
Hexachlorobiphenyls	ND	0.2
Heptachlorobiphenyls	ND	0.1
Octachlorobiphenyls	ND	0.05
Nonachlorobiphenyls	ND	0.05
Decachlorobiphenyl	ND	0.05

Internal Standard Recovery

Chemical Name	IUPAC #	%
¹³ C ₁₂ -2,2',6'-TrCB	19L	42.2
¹³ C ₁₂ -3,4,4'-TrCB	37L	71.6
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	80.4
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	79.5
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	87.1
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	79.8
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	80.3
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	INT
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	77.4
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OcCB	202L	67.0
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcCB	205L	78.0
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	68.6
¹³ C ₁₂ -DeCB	209L	74.2

Total PCB
Lipid
0.00 ng/g
<0.5%

ND - none detected

Patrick Pond 24/09/04
 Authorization



ND - none detected

NDR - none detected based on peak ratio



Control Number E 196933

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: <i>Earth Tech</i> Address:		Copy of Report To: Company: <i>EARTH TECH</i> Address:	Copy of invoice: Mail invoice to this address for approval
QA/QC Report ☒		A tyco INTERNATIONAL LTD. COMPANY OCT 05 2004 Edmonton, AB	☐
Report Result: Fax ☐ Mail ☐ Courier ☐ e-mail ☐ e-Service ☐		Report Result: Fax ☐ Mail ☐ Courier ☐ e-mail ☐ e-service ☐	Attention: <i>Matthew McElwaine</i> Phone: Fax: Cell: e-mail:

Information to be included on Report and Invoice Project ID: 78850 Project Name: Fox C Project Location: Ekulugad Fjord Legal Location: PO#: Proj. Acct. Code: Agreement ID: 4038		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 ☐ Date Required: _____ Signature: _____ Norwest Authorization: _____		Sample Custody (Please Print) Relinquished by: Company: _____ Signature: _____ I authorize Norwest Labs to proceed with the work indicated on this form: Date: _____ Initial: _____ Received by: _____ ☐ Coolers Waybill # _____ Date _____ ☐ Boxes Company: _____ Time _____ ☐ Samples	
Special Instructions / Comments: ☐ Check here if Norwest is required to report results directly to a regulatory body (Please include contact information)					

Same as previous.
Sails on hold

[illegible]

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

Page _____ of _____
##

NW/L 008 (08/03)



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 Ave
Edmonton, AB, Canada
T5S 1J4
Attn: Greg Wright
Sampled By:
Company:

Project
ID: 78850
Name: Fox C
Location: Ekalugad Fjord
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 330954
Control Number: E 196933
Date Received: Sep 08, 2004
Date Reported: Sep 27, 2004
Report Number: 592315

Page: 1 of 7

		NWL Number	330954-1	330954-2	330954-3	
		Sample Description	Fish #1	Fish #2	Fish #3	
		Matrix	Tissue	Tissue	Tissue	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total						
Aluminum	Total	ug/g	<0.2	<0.25	<0.25	2.5
Antimony	Total	ug/g	<0.01	<0.01	<0.01	0.1
Arsenic	Total	ug/g	1.75	0.87	0.51	0.1
Barium	Total	ug/g	<0.05	<0.05	<0.05	0.5
Beryllium	Total	ug/g	<0.005	<0.005	<0.005	0.05
Bismuth	Total	ug/g	<0.025	<0.025	<0.025	0.25
Cadmium	Total	ug/g	0.0046	0.0050	0.0080	0.005
Calcium	Total	ug/g	53	67	64	100
Chromium	Total	ug/g	0.039	0.068	0.044	0.25
Cobalt	Total	ug/g	0.007	0.009	0.009	0.05
Copper	Total	ug/g	0.36	0.44	0.38	0.5
Iron	Total	ug/g	4.3	2.2	3.0	5
Lead	Total	ug/g	0.028	0.013	0.012	0.05
Lithium	Total	ug/g	<0.05	<0.05	<0.05	0.5
Magnesium	Total	ug/g	274	268	277	100
Manganese	Total	ug/g	<0.2	<0.2	<0.2	2.5
Molybdenum	Total	ug/g	<0.05	<0.05	<0.05	0.5
Nickel	Total	ug/g	<0.02	0.025	0.048	0.25
Phosphorus	Total	ug/g	2760	2930	2810	15
Potassium	Total	ug/g	4110	4370	4060	200
Selenium	Total	ug/g	0.45	0.48	0.45	0.1
Silicon	Total	ug/g	<2	<2	<2	25
Silver	Total	ug/g	<0.005	<0.005	<0.005	0.05
Sodium	Total	ug/g	472	388	376	200
Strontium	Total	ug/g	0.22	0.25	0.22	0.5
Tin	Total	ug/g	0.70	0.75	0.75	0.5
Titanium	Total	ug/g	0.323	0.296	0.345	0.25
Uranium	Total	ug/g	<0.025	<0.025	<0.025	0.25
Vanadium	Total	ug/g	0.084	0.066	0.078	0.05
Zinc	Total	ug/g	5.02	5.54	5.09	0.5
Zirconium	Total	ug/g	<0.05	<0.05	<0.05	0.5
Mercury	Total	ug/g	0.085	0.027	0.035	0.01



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 Ave
Edmonton, AB, Canada
T5S 1J4
Attn: Greg Wright
Sampled By:
Company:

Project
ID: 78850
Name: Fox C
Location: Ekalugad Fjord
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 330954
Control Number: E 196933
Date Received: Sep 08, 2004
Date Reported: Sep 27, 2004
Report Number: 592315

Page: 2 of 7

		NWL Number	330954-4	330954-5		
		Sample Description	Fish #4	Fish #5		
		Matrix	Tissue	Tissue		
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total						
Aluminum	Total	ug/g	<0.2	<0.25		2.5
Antimony	Total	ug/g	<0.01	<0.01		0.1
Arsenic	Total	ug/g	0.43	0.77		0.1
Barium	Total	ug/g	<0.05	<0.05		0.5
Beryllium	Total	ug/g	<0.005	<0.005		0.05
Bismuth	Total	ug/g	<0.025	<0.025		0.25
Cadmium	Total	ug/g	0.0058	0.0036		0.005
Calcium	Total	ug/g	61	63		100
Chromium	Total	ug/g	0.061	0.037		0.25
Cobalt	Total	ug/g	0.008	0.017		0.05
Copper	Total	ug/g	0.46	0.37		0.5
Iron	Total	ug/g	3.8	2.5		5
Lead	Total	ug/g	0.012	0.011		0.05
Lithium	Total	ug/g	<0.05	<0.05		0.5
Magnesium	Total	ug/g	262	276		100
Manganese	Total	ug/g	<0.2	<0.2		2.5
Molybdenum	Total	ug/g	<0.05	<0.05		0.5
Nickel	Total	ug/g	0.026	<0.02		0.25
Phosphorus	Total	ug/g	2820	2830		15
Potassium	Total	ug/g	4250	4270		200
Selenium	Total	ug/g	0.38	0.37		0.1
Silicon	Total	ug/g	3.3	<2		25
Silver	Total	ug/g	<0.005	<0.005		0.05
Sodium	Total	ug/g	360	359		200
Strontium	Total	ug/g	0.25	0.23		0.5
Tin	Total	ug/g	0.73	0.72		0.5
Titanium	Total	ug/g	0.319	0.282		0.25
Uranium	Total	ug/g	<0.025	<0.025		0.25
Vanadium	Total	ug/g	0.072	0.078		0.05
Zinc	Total	ug/g	5.18	4.93		0.5
Zirconium	Total	ug/g	<0.05	<0.05		0.5
Mercury	Total	ug/g	0.037	0.027		0.01



Quality Control

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 Ave
Edmonton, AB, Canada
T5S 1J4
Attn: Greg Wright
Sampled By:
Company:

Project
ID: 78850
Name: Fox C
Location: Ekalugad Fjord
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 330954
Control Number: E 196933
Date Received: Sep 08, 2004
Date Reported: Sep 27, 2004
Report Number: 592315

Page: 4 of 7

Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	<0.25	0.0	0.0	0.0	✓
Antimony	uq/q	<0.01	0.0	0.0	0.0	✓
Arsenic	uq/q	0.03	0.0	0.0	0.0	✓
Barium	uq/q	<0.05	0.0	0.0	0.0	✓
Beryllium	uq/q	<0.005	0.00	0.00	0.00	✓
Bismuth	uq/q	<0.02	0.00	-0.02	0.02	✓
Cadmium	uq/q	0.0005	0.000	-0.001	0.001	✓
Calcium	uq/q	<10	0	0	0	✓
Chromium	uq/q	<0.025	0.00	0.00	0.00	✓
Cobalt	uq/q	<0.005	0.00	0.00	0.00	✓
Copper	uq/q	<0.05	0.0	0.0	0.0	✓
Iron	uq/q	<0.5	0	0	0	✓
Lead	uq/q	0.012	0.00	-0.01	0.01	✓
Lithium	uq/q	<0.05	0.0	0.0	0.0	✓
Magnesium	uq/q	<10	0	0	0	✓
Manganese	uq/q	<0.2	0.0	0.0	0.0	✓
Molybdenum	uq/q	<0.05	0.0	0.0	0.0	✓
Nickel	uq/q	<0.02	0.00	0.00	0.00	✓
Phosphorus	uq/q	15	0	0	0	✓
Potassium	uq/q	<20	0	-1	1	✓
Selenium	uq/q	<0.01	0.0	-0.1	0.1	✓
Silicon	uq/q	<2	0	0	0	✓
Silver	uq/q	<0.005	0.00	0.00	0.00	✓
Sodium	uq/q	<20	0	0	0	✓
Strontium	uq/q	<0.05	0.0	0.0	0.0	✓
Sulphur	uq/q	15	0	-1	1	✓
Thorium	uq/q	nn	0.000	-0.005	0.005	✓
Tin	uq/q	0.76	0.0	0.0	0.0	✓
Titanium	uq/q	<0.02	0.00	0.00	0.00	✓
Uranium	uq/q	<0.025	0.00	-0.06	0.06	✓
Vanadium	uq/q	0.011	0.00	0.00	0.00	✓
Zinc	uq/q	0.19	0.0	0.0	0.0	✓
Zirconium	uq/q	<0.05	0.0	0.0	0.0	✓
Mercury	uq/q	<0.005	0.000	-0.099	0.099	✓

Material Used: Metals Blank - solids
Date Acquired: Sep 16, 2004
Acquired By: Marie England



Quality Control

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 Ave
Edmonton, AB, Canada
T5S 1J4
Attn: Greg Wright
Sampled By:
Company:

Project
ID: 78850
Name: Fox C
Location: Ekalugad Fjord
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 330954
Control Number: E 196933
Date Received: Sep 08, 2004
Date Reported: Sep 27, 2004
Report Number: 592315

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Metals Total (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	ug/q	<0.25	920	30.0	0.1	✓
Antimony	ug/g	<0.01	0.06	30.0	0.1	✓
Arsenic	ug/q	0.77	1.55	30.0	0.2	✓
Barium	ug/q	<0.05	9.33	30.0	0.0	✓
Beryllium	ug/q	<0.005	0.018	30.00	0.00	✓
Bismuth	ug/q	<0.025	<0.050	30.00	0.20	✓
Cadmium	ug/q	0.0036	3.50	30.000	0.003	✓
Calcium	ug/q	63	11700	30	0	✓
Chromium	ug/q	0.037	11.9	30.00	0.01	✓
Cobalt	ug/q	0.017	2.53	30.00	0.01	✓
Copper	ug/g	0.37	8.54	30.0	0.0	✓
Iron	ug/q	2.5	617	30	0	✓
Lead	ug/g	0.011	0.448	30.00	0.05	✓
Lithium	ug/q	<0.05	0.69	30.0	0.0	✓
Magnesium	ug/g	276	4660	30	0	✓
Manganese	ug/q	<0.2	403	30.0	0.0	✓
Molybdenum	ug/g	<0.05	0.53	30.0	0.1	✓
Nickel	ug/q	<0.02	12.0	30.00	0.01	✓
Phosphorus	ug/q	2830	2020	30	0	✓
Potassium	ug/q	4270	13700	30	5	✓
Selenium	ug/q	0.37	<0.02	30.0	0.5	✓
Silicon	ug/q	<2	558	30	0	✓
Silver	ug/q	<0.005	0.063	30.00	0.02	✓
Sodium	ug/q	359	280	30	0	✓
Strontium	ug/q	0.23	30.6	30.0	0.0	✓
Sulphur	ug/g	2550	6240	30	5	✓
Thorium	ug/q	n	n	30.000	0.025	✓
Tin	ug/g	0.72	3.91	30.0	0.1	✓
Titanium	ug/q	0.282	27.6	30.00	0.02	✓
Uranium	ug/g	<0.025	0.696	30.00	0.30	✓
Vanadium	ug/q	0.078	1.35	30.00	0.01	✓
Zinc	ug/g	4.93	375	30.0	0.0	✓
Zirconium	ug/q	<0.05	1.14	30.0	0.0	✓

Material Used: Metals Int. Duplicate - solids
Date Acquired: Sep 13, 2004
Acquired By: Marie Eneland



Quality Control

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 Ave
Edmonton, AB, Canada
T5S 1J4
Attn: Greg Wright
Sampled By:
Company:

Project
ID: 78850
Name: Fox C
Location: Ekalugad Fjord
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 330954
Control Number: E 196933
Date Received: Sep 08, 2004
Date Reported: Sep 27, 2004
Report Number: 592315

Page: 6 of 7

Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	ug/q	4.5	10.9	9.3	12.5	✓
Arsenic	ug/q	19.3	18.0	15.3	20.7	✓
Cadmium	ug/q	0.0548	0.043	0.036	0.050	✓
Chromium	ug/q	16.1	34.7	29.5	39.9	✓
Cobalt	ug/q	0.10	0.18	0.15	0.21	✓
Copper	ug/q	2.11	2.3	2.0	2.7	✓
Iron	ug/q	92.1	142	121	163	✓
Lead	ug/q	0.080	0.07	0.06	0.07	✓
Manganese	ug/q	2.1	3.7	3.1	4.2	✓
Nickel	ug/q	8.73	19.4	16.5	22.3	✓
Selenium	ug/q	1.14	1.4	1.2	1.6	✓
Silver	ug/q	0.040	0.04	0.03	0.05	✓
Zinc	ug/q	26.7	25.6	21.8	29.4	✓
Mercury	ug/q	3.98	4.64	3.94	5.34	✓

Material Used: S0136 NRC DORM-2 - metals in dogfish

Date Acquired: Sep 16, 2004

Acquired By: Marie England

Aluminum	ug/g	57.8	197	168	227	✓
Arsenic	ug/g	8.08	7.7	6.5	8.8	✓
Cadmium	ug/g	2.48	2.48	2.11	2.85	✓
Calcium	ug/g	702	838	712	964	✓
Cobalt	ug/g	0.391	0.37	0.32	0.43	✓
Copper	ug/g	72.8	71.6	60.9	82.3	✓
Iron	ug/g	214	206	175	237	✓
Lead	ug/g	0.318	0.31	0.26	0.35	✓
Magnesium	ug/g	962	1085	923	1247	✓
Manganese	ug/g	18.5	18.5	15.7	21.3	✓
Nickel	ug/g	0.912	1.04	0.88	1.20	✓
Potassium	ug/g	6050	6520	5542	7498	✓
Selenium	ug/g	1.69	2.1	1.8	2.4	✓
Silver	ug/g	0.646	0.67	0.57	0.77	✓
Sodium	ug/g	2980	3297	2802	3792	✓
Sulphur	ug/g	6670	6887	5855	7919	✓
Thorium	ug/g	n	0.037	0.031	0.042	✓
Vanadium	ug/g	0.612	0.58	0.49	0.66	✓
Zinc	ug/g	1470	1424	1210	1638	✓
Mercury	ug/g	0.030	0.037	0.031	0.043	✓

Material Used: S0139 NIST 1566b - metals in oyster

Date Acquired: Sep 16, 2004

Acquired By: Marie England

APPENDIX F

WASTE AUDIT

**Table 1 Summary of Waste Materials
Beach Area FOX-C DEW Line Site**

Site Name	Location	Waste Items	Comments	Non Hazardous Volume m ³	Hazardous Volume m ³	
Barrel Dump #1	North side of road Approx. 500 m from Water	NON-HAZARDOUS				
		300 empty barrels	diesel, gas, fuel oil, lube oil, aircraft fuel	45		
		10 bags cement powder		1		
		scrap steel debris, misc. Cat parts		10		
		Hyster Crane boom for Cat		1		
Barrel Dump #2	200 m NW of vehicles near beach	scrap wood		3		
		Cat Tracks		2		
		NON-HAZARDOUS				
		520 empty barrels	labeled as diesel	78		
		NON-HAZARDOUS				
Barrel Dump #3	Between vehicles and beach	100 empty barrels		15		
Vehicle Dump	Beach	NON-HAZARDOUS				
		Three D4 cats		21		
		D6 cat		15		
		D2 cat		3		
		Tracked bombardier		10		
		Tandem rear axle dump truck		10		
		3 generators	Fluids in generator (glycol, fuel, oil etc.) must be disposed of as required	5		
		scattered metal debris (parts)		5		
		scattered wood debris				
		35 empty barrels		2		
		HAZARDOUS				
		misc. oil, fuel, air filters	May contain residual amounts of oil	1		
		AST Site	Beach	NON-HAZARDOUS		
2- 75,000 L ASTs and fittings	Assumed cut into sections			10		
Concrete tank pads				8		
Aboveground piping (70 m, 200 mm dia.) and fittings	Assumed cut into sections			3		
scattered wood debris				1		
rubber Hose and fittings				2		
40 barrels				6		
propane tank	Potentially hazardous if not empty				0.5	
Total Barrel Count				995		
Total Estimated NON HAZARDOUS Volume (m3)				256		
Total Estimated HAZARDOUS Volume (m3)				1.5		

**Table 2 Summary of Waste Materials
Water Lake Area FOX-C DEW Line Site**

Site Name	Location	Non-Hazardous Waste Items	Comments	Non Hazardous Volume m ³	Hazardous Volume m ³
Water Lake Barrel Dump #1	Approx. 500 m east of Lake (Sample location WL1001)	NON-HAZARDOUS			
		250 empty barrels		30	
Water Lake Area	East side of Water Lake	Scattered wood debris		1	
		NON-HAZARDOUS			
		wooden cable spool		1	
		spool of 50 mm cable (rubber coated)		1	
		scattered wood debris		12	
		scattered metal debris		8	
		fire extinguishers		0.5	
		remains of cloths dryer, file cabinet		0.5	
		2-D6 crane attachments (Hystaway)		10	
		Cat tracks (40 m total length)		8	
		Misc. vehicle parts, axles, rims, tires		3	
		200 barrels (scattered over area)	Some barrels buried in outwash area	30	
		wire (various sizes)		1	
		angle iron		0.25	
		steel pulley and hook		0.25	
		20 mm dia. Cable		0.5	
		oil fired heater for tent/building		0.5	
		rubber hose (various sizes)		0.5	
		misc. domestic waste (rusted cans, wood)		2	
		metal strapping (various sizes)		1.5	
		weathered canvas		0.5	
		10 m of heavy duty chain (200 mm length links)		1	
		partially burned wood		0.5	
		HAZARDOUS			
		blasting caps (randomly scattered)	Safety concern?		0.1
		misc. Cat filters (air, oil and fuel), various sizes	May contain residual amounts of oil		2
		7-1/2 full to full barrels (river outwash area)	Confirm method of disposal		4
		Paint on Small Hut	PCEs (68.8 ppm). Paint is weathered and substrate is plywood and two by fours		1

**Table 2 Summary of Waste Materials
Water Lake Area FOX-C DEW Line Site**

Site Name	Location	Non-Hazardous Waste Items	Comments	Non Hazardous Volume m ³	Hazardous Volume m ³
Water Lake	West shore of Water Lake	6 barrels		1	
		NON-HAZARDOUS			
		2 - Tracked bombardiers		20	
		2 generators	Fluids in generator (glycol, fuel, oil etc.) must be disposed of as required	10	
		D3 Cat		5	
		cement mixer		5	
		partially buried crane in slide area	Potential Fisheries issue to remove	5	
		steel cable		0.5	
		rubber hose		0.5	
		metal cladding		0.5	
		remains of large diameter spool (wood)		0.5	
		scattered wood debris		2	
		scattered metal debris		2	
		70 barrels in area		10.5	
		HAZARDOUS			
		wood timber creosote treated (12 x 8)			1
Total Barrel Count				533	
Total Estimated NON HAZARDOUS Volume (m³)				175.9	
Total Estimated HAZARDOUS Volume (m³)				8.1	

**Table 4 Summary of Waste Materials
Mid-Station FOX C DEW Line Site**

Site Name	Location	Waste Items	Comments	Non Hazardous Volume m ³	Hazardous Volume m ³
Access Road	Road between Upper and Mid Station	NON-HAZARDOUS			
		150 barrels		22.5	
		scattered wood debris		5	
		scattered metal debris		5	
		NON-HAZARDOUS			
Heil pad	Level Pad	110 barrels on pad, 250 below	some partially burned	54	
		scattered wood debris		1	
		4 compressed gas cylinders	Potentially hazardous if not vented prior to disposal, painted green	1	
		HAZARDOUS			
		13 barrels - 1/2 full to full (previously opened)	Confirm method of disposal		3
Helipad Dump	Dump, North side of pad (two levels)	NON-HAZARDOUS			
		Approx. 500 barrels visible, some buried	Footprint of approx. 2000 m ² , some barrels at bottom of cliff	3300	
		cat tracks			
		rebar			
		domestic waste			
		wood debris			
		misc. filters			
		vehicle parts			
		HAZARDOUS			
		approx 6-1/2 full Barrels to partially full (previously opened)	Confirm method of disposal		3
Mid station Barrel Dump #1	Below pad (to south)	NON-HAZARDOUS			
		approx 1000 barrels in pile		150	
		scattered metal debris below barrels		5	
		HAZARDOUS			
		3 full barrels along road	Confirm method of disposal		1
Mid station Barrel Dump #2		NON-HAZARDOUS			
		15-10 gallon barrels		1.5	
		scattered metal debris above barrels		0.5	
		scattered wood debris above barrels		0.5	
		HAZARDOUS			
		120 barrels, some containing lube oil	split open on site		18