



ANALYTICAL SERVICES

26-Oct-01
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BLANK SUMMARY

All method blanks were less than MDL, except the following:

Parameter	Batch	Sparcode	Blank Conc.	MDL	Unit
Chromium	14201958	Cr-TIR03	0.8	0.2	ug/g
Lithium	14201958	Li-TIR03	0.2	0.1	ug/g
Lead	14201958	Pb-TIR03	3.3	2.0	ug/g
Titanium	14201958	Ti-TIR03	0.3	0.3	ug/g
Zinc	14201958	Zn-TIR03	0.7	0.5	ug/g
Lithium	14201943	Li-TIR03	0.1	0.1	ug/g
Copper	14201906	Cu-TIR03	0.8	0.5	ug/g
Vanadium	14201906	V--TIR03	0.7	0.4	ug/g
Zinc	14201906	Zn-TIR03	1.4	0.5	ug/g



PHILIP SERVICES

PHILIP ANALYTICAL SERVICES
9619 - 42nd Avenue
Edmonton, AB T6E 5R2

Phone: (780) 465-1212
Fax: (780) 450-4187
Toll Free: 1-877-465-8889

ANALYSIS REQUEST

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE 4

COMPANY NAME:

EarthTech Canada

PH. #: 480-6880

FAX #: 480-2100

CLIENT PROJECT ID: (P)

19340-01

E dm.

Radio Island

SAMPLER NAME (PRINT):

Don Roy

PROJECT MANAGER:

Will Wawrychuk

FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX				SAMPLING		HEADSPACE VAPOUR
		GROUND WATER	SURFACE WATER	SOIL	OTHER	# CONTAINERS	DATE	TIME
1 RT-34	11595					1	Sept 4	
2 RT-35	11596					1		
3 RT-36	11597					1		
4 RT-37	11598					1		
5 RT-38	11599					1		
6 RT-39	11600					1		
7 RT-40	11601					1		
8 RT-41	11602					1		
9								
10								
11								
12								

Metals
Pb
Lead Paint Test

Paint chip Sample.
called 12:30 Sept 7

PO. NUMBER:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE

TAT

Two Week ☐
One Week ☐
48 Hours ☐
24 Hours ☐

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS

EDT ☐

ARRIVAL TEMPERATURE °C

LAB USE ONLY

LAB INFORMATION
Sept 11/01 TDM

RELINQUISHED BY SAMPLER:

Don Roy

DATE

Sept 5

TIME

TIME

RECEIVED BY:

First Aid

RECEIVED BY:

EarthTech Canada



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Edmonton, AB T6E 5R2

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

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ANALYSIS REQUEST

42012479

COMPANY NAME:

EarthTech Canada

PH. #: 468-6800

FAX #: 468-2121

CLIENT PROJECT ID: (*)

Edm

19340-01
Radio Island.

SAMPLER NAME (PRINT):

Don Roy

PROJECT MANAGER

Will Wawanychuk

FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX				# CONTAINERS	SAMPLING		HEADSPACE VAPOUR										
		GROUND WATER	SURFACE WATER	SOIL	OTHER		DATE	TIME											
1 RT-23	11584			✓		1	Sept 4		✓	Pb									
2 RT-24	11585			✓		1			✓	Metals									
3 RT-25	11586			✓		1			✓	CWS-TAM									
4 RT-26	11587			✓		1			✓										
5 RT-27	11588			✓		1			✓										
6 RT-28	11589			✓		1			✓										
7 RT-29	11590			✓		1			✓										
8 RT-30	11591			✓		1			✓										
9 RT-31	11592			✓		1			✓										
10 RT-32	11593			✓		1			✓										
11 RT-33	11594			✓		1			✓										
12																			

TAT

PO. NUMBER:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE

ARRIVAL TEMPERATURE °C

LAB USE ONLY

Two Week ☒
One Week ☐
48 Hours ☐
24 Hours ☐
Other: ☐

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS

EDT ☐

RELINQUISHED BY SAMPLER:

Don Roy
First Air

DATE

TIME

RECEIVED BY:

First Air

DATE

TIME

RECEIVED BY:

EarthTech Canada

DATE

TIME

RECEIVED BY LABORATORY:

18
Sept 4/01 TBM

Cub

42012479



PHILIP ANALYTICAL SERVICES

9619 - 42nd Avenue
Edmonton, AB T6E 5R2

Phone: (780) 465-1212
Fax: (780) 450-4187
Toll Free: 1-877-465-8889

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PAGE 2 OF 1

ANALYSIS REQUEST

~~42012475~~

COMPANY NAME:

PH. #: 486-6800

COMPANY ADDRESS

CLIENT PROJECT ID: (#)

 $\in \mathcal{M}$

Radio Island.

SAMPLER NAME (PRINT):

PROJECT MANAGER:

Den Roy

Will Wavy chart.

[illegible]

TAT

P.O. NUMBER:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE

Two Week
One Week
48 Hours
24 Hours
Other

☐ ☐ ☐ ☒**ACCOUNTING CONTACT:**

SPECIAL REPORTING OR BILLING INSTRUCTIONS

EDT ☐

ARRIVAL TEMPERATURE °C

LAB INFORMATION

LAB USE ONLY

Coke

REINFORCED BY SAMPLER

1997

Don Roy

DATE: 5/10/11

TIME

RECEIVED BY:

First Aid.

First. A

DATE _____

TIME

RECEIVED BY:

Attn Train ✓



9619 - 42nd Avenue
Edmonton AB T5C
T5C 1A6

Phone: (780) 465-1212

Fax: (180) 450-418/
Toll Free: 1-877-465-8889

PAGE 1 OF 1

42012479

EarthTech Canada

PH. #: 488-6800
FAX #: 488-2121
CLIENT PROJECT ID: (H)

Edm

19340-01
Radio Island.

SAMPLER NAME (PRINT):

PROJECT MANAGER:

Den Roy

Will Wanycheuk

FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX				# CONTAINERS	SAMPLING			MR Metals
		GROUND WATER	SURFACE WATER	SOIL	OTHER		DATE	TIME	HEADSPACE VAPOUR	
RT-01	11562			✓		1	Sept 3			
RT-02	11563			✓		1	✓			
RT-03	11564			✓		1	✓			
RT-04 RT-04	11565			✓		1	✓			
RT-05	11566			✓		1	✓			
RT-06	11567			✓		1	✓			
RT-07	11568			✓		1	✓			
RT-08	11569			✓		1	✓			
RT-09	11570			✓		1	✓			
RT-10	11571			✓		1	✓			
RT-11	11572			✓		1	✓			

Two Week
Week

ACCOUNTING CONTACT:

SPECIAL REPORTING OR BILLING INSTRUCTIONS

EDT ☐

RELINQUISHED BY SAMPLER:

70

DATE	17	TIME
------	----	------

RECEIVED BY.

10

—PUBLISHED BY—

[illegible]

DATE	Sept 1980	TIME
------	-----------	------

PROCESSION, INC.

1111 1201

2

1-1557 1714

[illegible]

1

math 1 ecn

need

YELLOW - PHN 1P

DRAW - CHECK



ANALYTICAL SERVICES

14-Nov-01
Page 1 of 16

Certificate of Analysis

9619 42 Avenue
Edmonton, Alberta
Canada T6E 5R2
Tel 780 465 1212
Fax 780 450 4187Reported To :

EARTH TECH CANADA INC.

Client Code RC

17203 - 103 AVENUE
EDMONTON, ALBERTA
T5S 1J4Attention : WILL WAWNYCHUK
Phone : (780) 453-0709
FAX : (780) 488-2121Project Information :Project ID : 19340-01
Submitted By: DON ROYRequisition Forms :

Form 42112479 shipped on 05-Sep-01 received on 07-Sep-01 logged on 7-Sep-01 completed on 14-Nov-01

Remarks :

- + All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses
- + 'MDL' = Method Detection Limit, '<' = Less than MDL, '---' = Not analyzed
- + Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease
- + Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
- + All Groundwater samples except BTEX/VOC's or Purgeable Hydrocarbons are decanted and/or filtered prior to analysis unless otherwise mandated by regulatory agency
- + This report shall not be reproduced except in full, without the written approval of the laboratory

Methods used by Philip are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 20th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Liability for any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Philip for a period of 30 days from receipt of data or as per contract.

PHILIP Project Manager: Maureen Brown



ANALYTICAL SERVICES

14-Nov-01
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ANALYTICAL REPORT

Form 42112479

Client : EARTH TECH CANADA INC.
Project : 19340-01

Philip ID : 31011573 31011574 31011575 31011576
Client ID : RI-12 RI-13 RI-14 RI-15

Sparcode	Parameter	Unit	MDL				
PHYSICAL							
TCLPTC01	TCLP Extraction	date			01/11/09		
00250760	Moisture	%(W/W)	0.3				26.7
METALS TOTAL							
Al-TIR03	Aluminum	ug/g	10	5480	3100	5070	6370
Sb-TIR03	Antimony	ug/g	2.0	< 2.0	254	56.6	148
As-TIR03	Arsenic	ug/g	0.7	2.6	4.9	6.5	8.1
Ba-TIR03	Barium	ug/g	0.2	168	85.4	244	381
Be-TIR03	Beryllium	ug/g	0.1	0.3	0.1	0.3	0.4
Bi-TIR03	Bismuth	ug/g	10	< 10	< 10	< 10	< 10
B--TIR03	Boron	ug/g	10	< 10	< 10	14	< 10
Cd-TIR03	Cadmium	ug/g	0.2	1.0	0.2	115	7.2
Ca-TIR03	Calcium	ug/g	20	2580	1010	3190	8050
Cr-TIR03	Chromium	ug/g	0.2	20.1	15.0	11.4	8.1
Co-TIR03	Cobalt	ug/g	0.3	19.2	4.1	116	6.0
Cu-TIR03	Copper	ug/g	0.5	177	57.6	623	141
EX994288	Dry & Grind	date		01/09/10	01/09/10	01/09/10	01/09/10
Fe-TIR03	Iron	ug/g	10	11900	7020	4170	13400
Pb-TIR03	Lead	ug/g	2.0	527	115000	21200	14000
Li-TIR03	Lithium	ug/g	0.1	6.0	2.9	2.6	8.8
Mg-TIR03	Magnesium	ug/g	10	3760	1400	1450	1060
Mn-TIR03	Manganese	ug/g	0.2	235	174	107	3100
Hg-T200M	Mercury	ug/g	0.05	0.42	0.42	13.8	4.72
Mo-TIR03	Molybdenum	ug/g	0.4	0.9	1.3	4.4	3.5
Ni-TIR03	Nickel	ug/g	0.8	28.2	21.4	115	14.4
P--TIR03	Phosphorus Total (P)	ug/g	4.0	389	496	1060	817
K-TIR03	Potassium	ug/g	20	1610	830	554	454
Se-TIR03	Selenium	ug/g	1.0	2.7	2.0	9.6	2.4
Ag-TIR03	Silver	ug/g	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Na-TIR03	Sodium	ug/g	10	234	216	305	250
Sr-TIR03	Strontium	ug/g	0.1	20.3	16.9	52.2	147
S--TIR03	Sulphur	ug/g	20	697	15200	13700	810
Te-TIR03	Tellurium	ug/g	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tl-T200G	Thallium	ug/g	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sn-TIR03	Tin	ug/g	2.0	7.7	38.4	22.8	44.3
Ti-TIR03	Titanium	ug/g	0.3	540	357	109	152
U--TIR03	Uranium	ug/g	5.0	< 5.0	< 5.0	< 5.0	< 5.0

Matrix : Soil Soil Soil Soil
Sampled on: 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00



ANALYTICAL SERVICES

14-Nov-01
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ANALYTICAL REPORT

Form 42112479

Client : EARTH TECH CANADA INC.
Project : 19340-01

Philip ID : 31011573 31011574 31011575 31011576
Client ID : RI-12 RI-13 RI-14 RI-15

Sparcode	Parameter	Unit	MDL				
V--TIR03	Vanadium	ug/g	0.4	26.4	18.1	51.4	27.2
Zn-TIR03	Zinc	ug/g	0.5	316	36.7	19500	1720
Zr-TIR03	Zirconium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
METALS LEACHABLE							
Pb-LIR08	Lead Leachable	mg/L	0.5	---	420	---	---
HYDROCARBONS							
EX995149	PHC EXT F2 - 4	date	---	---	---	---	01/09/17
EX995170	Volat. Soil Extract.	date	---	---	---	---	01/09/08
PHC1PHCV	CCME PHC F1 C6-10	ug/g	10	---	---	---	< 10
HCl-CALC	CCME PHC F1-BTEX	ug/g	---	---	---	---	< 10
PHC2PHCS	CCME PHC F2 C10-16	ug/g	10	---	---	---	< 10
PHC3PHCS	CCME PHC F3 C16-34	ug/g	10	---	---	---	3500
PHC4PHCS	CCME PHC F4 C34-50+	ug/g	10	---	---	---	3500
BASEPHCS	PHC F2-4 BASELINE 0	Y/N	Yes	---	---	---	No
GHH--TOT	PHC GHH	ug/g	100	---	---	---	19000
GHH-S-MIN	PHC GHH SILICAGEL	ug/g	100	---	---	---	11000
VOLATILE ORGANICS							
B020PT12	Benzene	ug/g	0.02	---	---	---	< 0.02
T001PT12	Toluene	ug/g	0.10	---	---	---	< 0.10
B021PT12	Ethylbenzene	ug/g	0.10	---	---	---	< 0.10
X003PT12	m+p - Xylene	ug/g	0.10	---	---	---	< 0.10
X002PT12	o - Xylene	ug/g	0.10	---	---	---	< 0.10
SURROGATE RECOVERY							
VS01PT12	Bromofluorobenzene	%	0	---	---	---	97
VS03PT12	d8-Toluene	%	0	---	---	---	100
Ed10PT12	Ethylbenzene-d10	%	60	---	---	---	65

Matrix : Soil Soil Soil Soil
Sampled on: 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00



ANALYTICAL SERVICES

14-Nov-01
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ANALYTICAL REPORT

Form 42112479

Client : EARTH TECH CANADA INC.
Project : 19340-01

Philip ID : 31011577 31011578 31011579 31011580
Client ID : RI-16 RI-17 RI-18 RI-19

Sparcode	Parameter	Unit	MDL				
PHYSICAL							
TCLPTC01	TCLP Extraction	date					01/11/09
00250760	Moisture	%(W/W)	0.3	17.2	10.6	16.7	30.8
METALS TOTAL							
Al-TIR03	Aluminum	ug/g	10	3770	3700	7890	7700
Sb-TIR03	Antimony	ug/g	2.0	3.7	4.0	10.2	< 2.0
As-TIR03	Arsenic	ug/g	0.7	5.2	2.8	0.8	1.7
Ba-TIR03	Barium	ug/g	0.2	1120	679	138	175
Be-TIR03	Beryllium	ug/g	0.1	0.5	0.2	0.3	0.3
Bi-TIR03	Bismuth	ug/g	10	< 10	< 10	< 10	< 10
B-TIR03	Boron	ug/g	10	< 10	< 10	< 10	< 10
Cd-TIR03	Cadmium	ug/g	0.2	1.2	4.4	0.9	1.7
Ca-TIR03	Calcium	ug/g	20	11300	3380	2380	2700
Cr-TIR03	Chromium	ug/g	0.2	8.0	21.5	27.3	27.1
Co-TIR03	Cobalt	ug/g	0.3	4.6	4.6	9.1	21.0
Cu-TIR03	Copper	ug/g	0.5	148	407	48.4	71.5
EX994288	Dry & Grind	date		01/09/10	01/09/10	01/09/10	01/09/10
Fe-TIR03	Iron	ug/g	10	15600	10900	12600	9570
Pb-TIR03	Lead	ug/g	2.0	2880	2220	793	196
Li-TIR03	Lithium	ug/g	0.1	8.1	6.3	12.9	12.2
Mg-TIR03	Magnesium	ug/g	10	2550	2340	4600	4910
Mn-TIR03	Manganese	ug/g	0.2	570	407	90.8	34.3
Hg-T200M	Mercury	ug/g	0.05	31.0	14.1	0.72	1.70
Mo-TIR03	Molybdenum	ug/g	0.4	1.0	0.5	0.6	1.2
Ni-TIR03	Nickel	ug/g	0.8	15.5	22.6	30.4	37.7
P-TIR03	Phosphorus Total (P)	ug/g	4.0	949	643	342	379
K-TIR03	Potassium	ug/g	20	511	684	1670	1910
Se-TIR03	Selenium	ug/g	1.0	< 1.0	< 1.0	< 1.0	1.2
Ag-TIR03	Silver	ug/g	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Na-TIR03	Sodium	ug/g	10	201	220	307	315
Sr-TIR03	Strontium	ug/g	0.1	119	31.8	15.6	20.8
S-TIR03	Sulphur	ug/g	20	753	871	294	1440
Te-TIR03	Tellurium	ug/g	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tl-T200G	Thallium	ug/g	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sn-TIR03	Tin	ug/g	2.0	102	43.0	2.6	2.1
Ti-TIR03	Titanium	ug/g	0.3	232	379	710	687
U-TIR03	Uranium	ug/g	5.0	< 5.0	< 5.0	< 5.0	< 5.0

Matrix : Soil Soil Soil Soil
Sampled on: 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00

CONTINUED on page 5



ANALYTICAL SERVICES

14-Nov-01
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ANALYTICAL REPORT

Form 42112479

Client : EARTH TECH CANADA INC.
Project : 19340-01

Philip ID : 31011577 31011578 31011579 31011580
Client ID : RI-16 RI-17 RI-18 RI-19

Sparcode	Parameter	Unit	MDL				
V-TIRO3	Vanadium	ug/g	0.4	15.8	13.5	34.9	34.6
Zn-TIRO3	Zinc	ug/g	0.5	3980	1240	584	733
Zr-TIRO3	Zirconium	ug/g	0.5	< 0.5	< 0.5	< 0.5	< 0.5
METALS LEACHABLE							
Ph-LIRO8	Lead Leachable	mg/L	0.5	---	---	---	< 0.5
HYDROCARBONS							
EX995149	PHC EXT F2 - 4	date		01/09/17	01/09/17	01/09/17	01/09/17
EX995170	Volat. Soil Extract.	date		01/09/08	01/09/08	01/09/08	01/09/08
PHC1PHCV	CCME PHC F1 C6-10	ug/g	10	< 10	< 10	< 10	50
HC1-CALC	CCME PHC F1-BTEX	ug/g		< 10	< 10	< 10	50
PHC2PHCS	CCME PHC F2 C10-16	ug/g	10	4100	3800	34	29000
PHC3PHCS	CCME PHC F3 C16-34	ug/g	10	30000	10000	590	20000
PHC4PHCS	CCME PHC F4 C34-50+	ug/g	10	15000	1700	120	1300
BASEPHCS	PHC F2-4 BASELINE 0	Y/N	Yes	No	Yes	Yes	Yes
GHH-TOT	PHC GHH	ug/g	100	74000	---	---	---
GHS-MIN	PHC GHH SILICAGEL	ug/g	100	56000	---	---	---
VOLATILE ORGANICS							
B020PT12	Benzene	ug/g	0.02	< 0.02	< 0.02	< 0.02	< 0.02
T001PT12	Toluene	ug/g	0.10	0.15	< 0.10	< 0.10	< 0.10
B021PT12	Ethylbenzene	ug/g	0.10	< 0.10	< 0.10	< 0.10	< 0.10
X003PT12	m+p - Xylene	ug/g	0.10	0.59	< 0.10	< 0.10	< 0.10
X002PT12	o - Xylene	ug/g	0.10	0.20	< 0.10	< 0.10	< 0.10
SURROGATE RECOVERY							
VS01PT12	Bromofluorobenzene	%	0	98	95	96	103
VS03PT12	d8-Toluene	%	0	99	102	98	100
Ed10PT12	Ethylbenzene-d10	%	60	73	84	73	67

Matrix : Soil
Sampled on: 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00



ANALYTICAL SERVICES

14-Nov-01
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ANALYTICAL REPORT
Form 42112479

Client : EARTH TECH CANADA INC.
Project : 19340-01

Philip ID : 31011581 31011582 31011583
Client ID : RI-20 RI-21 RI-22

Sparcode	Parameter	Unit	MDL			
PHYSICAL						
TCLPTC01	TCLP Extraction	date				01/11/09
METALS TOTAL						
Al-TIR03	Aluminum	ug/g	10	5030	1430	752
Sb-TIR03	Antimony	ug/g	2.0	< 2.0	< 2.0	< 2.0
As-TIR03	Arsenic	ug/g	0.7	3.6 (1)	10.8	7.2
Ba-TIR03	Barium	ug/g	0.2	37.9	41.1	251
Be-TIR03	Beryllium	ug/g	0.1	0.3	0.2	< 0.1
Bi-TIR03	Bismuth	ug/g	10	< 10	< 10	< 10
B-TIR03	Boron	ug/g	10	< 10	< 10	< 10
Cd-TIR03	Cadmium	ug/g	0.2	< 0.2	14.4	6.7
Ca-TIR03	Calcium	ug/g	20	91000	5680	4340
Cr-TIR03	Chromium	ug/g	0.2	14.2	3.2	25.5
Co-TIR03	Cobalt	ug/g	0.3	13.8	29.0	188
Cu-TIR03	Copper	ug/g	0.5	28.6	71.4	70.8
EX994288	Dry & Grind	date		01/09/10	01/09/10	01/09/10
Fe-TIR03	Iron	ug/g	10	11900	9690	65200
Pb-TIR03	Lead	ug/g	2.0	7.0	174	458
Li-TIR03	Lithium	ug/g	0.1	8.7	0.7	0.6
Mg-TIR03	Magnesium	ug/g	10	20700	592	908
Mn-TIR03	Manganese	ug/g	0.2	390	99.9	5020
Hg-T200M	Mercury	ug/g	0.05	< 0.05	0.72	2.12
Mo-TIR03	Molybdenum	ug/g	0.4	< 0.4	10.1	8.3
Ni-TIR03	Nickel	ug/g	0.8	66.5	87.6	110
P-TIR03	Phosphorus Total (P)	ug/g	4.0	422	918	3640
K-TIR03	Potassium	ug/g	20	1050	110	130
Se-TIR03	Selenium	ug/g	1.0	< 1.0	7.6	6.6
Ag-TIR03	Silver	ug/g	1.0	< 1.0	< 1.0	< 1.0
Na-TIR03	Sodium	ug/g	10	148	153	222
Str-TIR03	Strontium	ug/g	0.1	83.0	24.6	23.3
S-TIR03	Sulphur	ug/g	20	226	5230	3490
Te-TIR03	Tellurium	ug/g	5.0	< 5.0	< 5.0	< 5.0
Tl-T200G	Thallium	ug/g	1.0	< 1.0	< 1.0	< 1.0
Sn-TIR03	Tin	ug/g	2.0	< 2.0	54.9	24.5
Ti-TIR03	Titanium	ug/g	0.3	240	22.7	15.8
U-TIR03	Uranium	ug/g	5.0	< 5.0	< 5.0	< 5.0
V-TIR03	Vanadium	ug/g	0.4	21.8	25.5	41

Matrix : Soil Soil Soil
Sampled on: 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00

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ANALYTICAL SERVICES

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Form 42112479Client : EARTH TECH CANADA INC.
Project : 19340-01Philip ID : 31011581 31011582 31011583
Client ID : RI-20 RI-21 RI-22

Sparcode	Parameter	Unit	MDL			
Zn-TIR03	Zinc	ug/g	0.5	46.9	3580	1670
Zr-TIR03	Zirconium	ug/g	0.5	1.3	< 0.5	< 0.5
METALS LEACHABLE						
Pb-LIR03	Lead Leachable	mg/L	0.5	---	---	< 0.5

Matrix : Soil Soil Soil
Sampled on: 01/09/03 16:00 01/09/03 16:00 01/09/03 16:00

Result comments and/or text results :

(1) DUPLICATES DO NOT MATCH FOR ARSENIC DUE TO NON-HOMOGENEOUS SAMPLE



ANALYTICAL SERVICES

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Form 42112479

Parameter	Client ID	Philip ID	Sample Conc.	Duplicate Conc.	MDL	Unit	Relative % Diff.
Silver	RI-20	31011581	< 1.0	< 1.0	1.0	ug/g	0.00
Aluminum	RI-20	31011581	5030	4840	10	ug/g	3.85
Arsenic	RI-20	31011581	3.6	2.9	0.7	ug/g	21.54
Boron	RI-20	31011581	< 10	< 10	10	ug/g	0.00
Barium	RI-20	31011581	37.9	37.6	0.2	ug/g	0.79
Beryllium	RI-20	31011581	0.3	0.3	0.1	ug/g	0.00
Bismuth	RI-20	31011581	< 10	< 10	10	ug/g	0.00
Calcium	RI-20	31011581	91000	81600	20	ug/g	10.89
Cadmium	RI-20	31011581	< 0.2	< 0.2	0.2	ug/g	0.00
Cobalt	RI-20	31011581	13.8	13.5	0.3	ug/g	2.20
Chromium	RI-20	31011581	14.2	14.1	0.2	ug/g	0.71
Copper	RI-20	31011581	28.6	27.6	0.5	ug/g	3.56
Iron	RI-20	31011581	11900	11600	10	ug/g	2.55
Potassium	RI-20	31011581	1050	996	20	ug/g	5.28
Lithium	RI-20	31011581	8.7	8.5	0.1	ug/g	2.33
Magnesium	RI-20	31011581	20700	21000	10	ug/g	-1.44
Manganese	RI-20	31011581	390	370	0.2	ug/g	5.26
Molybdenum	RI-20	31011581	< 0.4	< 0.4	0.4	ug/g	0.00
Sodium	RI-20	31011581	148	138	10	ug/g	6.99
Nickel	RI-20	31011581	66.5	65.8	0.8	ug/g	1.06
Phosphorus Total (P)	RI-20	31011581	422	359	4.0	ug/g	16.13
Lead	RI-20	31011581	7.0	6.7	2.0	ug/g	4.38
Sulphur	RI-20	31011581	226	205	20	ug/g	9.74
Antimony	RI-20	31011581	< 2.0	< 2.0	2.0	ug/g	0.00
Selenium	RI-20	31011581	< 1.0	< 1.0	1.0	ug/g	0.00
Tin	RI-20	31011581	< 2.0	< 2.0	2.0	ug/g	0.00
Strontium	RI-20	31011581	83.0	74.5	0.1	ug/g	10.79
Tellurium	RI-20	31011581	< 5.0	< 5.0	5.0	ug/g	0.00
Titanium	RI-20	31011581	240	238	0.3	ug/g	0.84
Uranium	RI-20	31011581	< 5.0	< 5.0	5.0	ug/g	0.00
Vanadium	RI-20	31011581	21.8	21.2	0.4	ug/g	2.79
Zinc	RI-20	31011581	46.9	46.3	0.5	ug/g	1.29
Zirconium	RI-20	31011581	1.3	1.2	0.5	ug/g	8.00
Thallium	RI-20	31011581	< 1.0	< 1.0	1.0	ug/g	0.00
Mercury	RI-20	31011581	< 0.05	< 0.05	0.05	ug/g	0.00



ANALYTICAL SERVICES

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Form 42112479

Parameter	Client ID	Philip ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Silver	Blank Spike. Batch :	14201958	< 1.0	59.1	62.5	ug/g	94
Aluminum	Blank Spike. Batch :	14201958	< 10	258	250	ug/g	103
Arsenic	Blank Spike. Batch :	14201958	< 0.7	475	500	ug/g	95
Boron	Blank Spike. Batch :	14201958	< 10	253	250	ug/g	101
Barium	Blank Spike. Batch :	14201958	< 0.2	246	250	ug/g	98
Beryllium	Blank Spike. Batch :	14201958	< 0.1	263	250	ug/g	105
Bismuth	Blank Spike. Batch :	14201958	< 10	252	250	ug/g	101
Calcium	Blank Spike. Batch :	14201958	< 20	248	250	ug/g	98
Cadmium	Blank Spike. Batch :	14201958	< 0.2	253	250	ug/g	101
Cobalt	Blank Spike. Batch :	14201958	< 0.3	246	250	ug/g	98
Chromium	Blank Spike. Batch :	14201958	0.8	244	250	ug/g	97
Copper	Blank Spike. Batch :	14201958	< 0.5	241	250	ug/g	96
Iron	Blank Spike. Batch :	14201958	< 10	255	250	ug/g	100
Potassium	Blank Spike. Batch :	14201958	< 20	1190	1250	ug/g	95
Lithium	Blank Spike. Batch :	14201958	0.2	243	250	ug/g	97
Magnesium	Blank Spike. Batch :	14201958	< 10	249	250	ug/g	99
Manganese	Blank Spike. Batch :	14201958	< 0.2	247	250	ug/g	99
Molybdenum	Blank Spike. Batch :	14201958	< 0.4	242	250	ug/g	97
Sodium	Blank Spike. Batch :	14201958	< 10	247	250	ug/g	97
Nickel	Blank Spike. Batch :	14201958	< 0.8	244	250	ug/g	98
Phosphorus Total (P)	Blank Spike. Batch :	14201958	< 4.0	1110	1250	ug/g	88
Lead	Blank Spike. Batch :	14201958	3.3	486	500	ug/g	96
Antimony	Blank Spike. Batch :	14201958	< 2.0	521	500	ug/g	104
Selenium	Blank Spike. Batch :	14201958	< 1.0	248	250	ug/g	99
Tin	Blank Spike. Batch :	14201958	< 2.0	1210	1250	ug/g	97
Strontium	Blank Spike. Batch :	14201958	< 0.1	245	250	ug/g	98
Titanium	Blank Spike. Batch :	14201958	0.3	249	250	ug/g	99
Uranium	Blank Spike. Batch :	14201958	< 5.0	256	250	ug/g	101
Vanadium	Blank Spike. Batch :	14201958	< 0.4	249	250	ug/g	99
Zinc	Blank Spike. Batch :	14201958	0.7	250	250	ug/g	100
Zirconium	Blank Spike. Batch :	14201958	< 0.5	241	250	ug/g	96
Thallium	Blank Spike. Batch :	14201909	< 1.0	73.0	75	ug/g	97
Mercury	Blank Spike. Batch :	14201965	< 0.05	0.10	.1	ug/g	96
Lead Leachable	Blank Spike. Batch :	14202585	< 0.5	4.8	5	mg/L	97
Silver	Blank Spike. Batch :	14201943	< 1.0	60.7	62.5	ug/g	97
Aluminum	Blank Spike. Batch :	14201943	< 10	253	250	ug/g	100
Arsenic	Blank Spike. Batch :	14201943	< 0.7	481	500	ug/g	96
Boron	Blank Spike. Batch :	14201943	< 10	253	250	ug/g	101



ANALYTICAL SERVICES

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SPIKE SUMMARY
Form 42112479

Parameter	Client ID	Philip ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Barium	Blank Spike. Batch :	14201943	< 0.2	250	250	ug/g	100
Beryllium	Blank Spike. Batch :	14201943	< 0.1	261	250	ug/g	105
Bismuth	Blank Spike. Batch :	14201943	< 10	258	250	ug/g	103
Calcium	Blank Spike. Batch :	14201943	< 20	254	250	ug/g	101
Cadmium	Blank Spike. Batch :	14201943	< 0.2	258	250	ug/g	103
Cobalt	Blank Spike. Batch :	14201943	< 0.3	252	250	ug/g	101
Chromium	Blank Spike. Batch :	14201943	< 0.2	246	250	ug/g	98
Copper	Blank Spike. Batch :	14201943	< 0.5	250	250	ug/g	100
Iron	Blank Spike. Batch :	14201943	< 10	252	250	ug/g	100
Potassium	Blank Spike. Batch :	14201943	< 20	1160	1250	ug/g	93
Lithium	Blank Spike. Batch :	14201943	0.1	254	250	ug/g	101
Magnesium	Blank Spike. Batch :	14201943	< 10	255	250	ug/g	102
Manganese	Blank Spike. Batch :	14201943	< 0.2	253	250	ug/g	101
Molybdenum	Blank Spike. Batch :	14201943	< 0.4	248	250	ug/g	99
Sodium	Blank Spike. Batch :	14201943	< 10	256	250	ug/g	102
Nickel	Blank Spike. Batch :	14201943	< 0.8	250	250	ug/g	100
Phosphorus Total (P)	Blank Spike. Batch :	14201943	< 4.0	1140	1250	ug/g	91
Lead	Blank Spike. Batch :	14201943	< 2.0	486	500	ug/g	97
Antimony	Blank Spike. Batch :	14201943	< 2.0	522	500	ug/g	104
Selenium	Blank Spike. Batch :	14201943	< 1.0	246	250	ug/g	98
Tin	Blank Spike. Batch :	14201943	< 2.0	1200	1250	ug/g	96
Strontium	Blank Spike. Batch :	14201943	< 0.1	256	250	ug/g	102
Titanium	Blank Spike. Batch :	14201943	< 0.3	254	250	ug/g	102
Uranium	Blank Spike. Batch :	14201943	< 5.0	266	250	ug/g	106
Vanadium	Blank Spike. Batch :	14201943	< 0.4	246	250	ug/g	98
Zinc	Blank Spike. Batch :	14201943	< 0.5	248	250	ug/g	99
Zirconium	Blank Spike. Batch :	14201943	< 0.5	248	250	ug/g	99
CCME PHC F2 C10-16	Blank Spike. Batch :	15201641	< 10	460	476	ug/g	97
CCME PHC F3 C16-34	Blank Spike. Batch :	15201641	< 10	1600	1540	ug/g	104
CCME PHC F4 C34-50+	Blank Spike. Batch :	15201641	< 10	96	95.9	ug/g	100
PHC GHH	Blank Spike. Batch :	14401768	< 100	4200	5000	ug/g	85
PHC GHH SIL/CAGEL	Blank Spike. Batch :	14401769	< 100	2700	2500	ug/g	103
Benzene	Blank Spike. Batch :	15201579	< 0.02	2.3	2.15	ug/g	107
Ethylbenzene	Blank Spike. Batch :	15201579	< 0.10	2.2	2.15	ug/g	100
Toluene	Blank Spike. Batch :	15201579	< 0.10	2.2	2.15	ug/g	100
o - Xylene	Blank Spike. Batch :	15201579	< 0.10	2.2	2.15	ug/g	103
m+p - Xylene	Blank Spike. Batch :	15201579	< 0.10	4.3	4.3	ug/g	100
Mercury	Blank Spike. Batch :	14201966	< 0.05	0.10	.1	ug/g	96



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SPIKE SUMMARY
Form 42112479

Parameter	Client ID	Philip ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Arsenic	RI-20	31011581	3.6	266	250	ug/g	105
Boron	RI-20	31011581	< 10	146	125	ug/g	110
Barium	RI-20	31011581	37.9	159	125	ug/g	97
Beryllium	RI-20	31011581	0.3	143	125	ug/g	114
Cadmium	RI-20	31011581	< 0.2	141	125	ug/g	112
Cobalt	RI-20	31011581	13.8	135	125	ug/g	97
Chromium	RI-20	31011581	14.2	144	125	ug/g	104
Copper	RI-20	31011581	28.6	147	125	ug/g	95
Lithium	RI-20	31011581	8.7	150	125	ug/g	113
Manganese	RI-20	31011581	390	497	125	ug/g	86
Molybdenum	RI-20	31011581	< 0.4	127	125	ug/g	102
Nickel	RI-20	31011581	66.5	185	125	ug/g	95
Lead	RI-20	31011581	7.0	245	250	ug/g	95
Antimony	RI-20	31011581	< 2.0	286	250	ug/g	115
Selenium	RI-20	31011581	< 1.0	141	125	ug/g	113
Strontium	RI-20	31011581	83.0	202	125	ug/g	95
Titanium	RI-20	31011581	240	353	125	ug/g	90
Vanadium	RI-20	31011581	21.8	150	125	ug/g	103
Zinc	RI-20	31011581	46.9	151	125	ug/g	83
Thallium	Blank Spike, Batch :	14201910	< 1.0	74.0	75	ug/g	99



ANALYTICAL SERVICES

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Form 42112479

Philip ID:		31011573	31011574	31011575	31011576
Client ID:		RI-12	RI-13	RI-14	RI-15
TCLPTC01	TCLP Extraction	---	09-NOV-2001	---	---
00250760	Moisture	---	---	---	18-SEP-2001
CCMESOIL	CCME 99 SOILS	14-SEP-2001	14-SEP-2001	14-SEP-2001	14-SEP-2001
Hg-T200M	Mercury	15-SEP-2001	15-SEP-2001	17-SEP-2001	17-SEP-2001
Tl-T200G	Thallium	13-SEP-2001	13-SEP-2001	13-SEP-2001	13-SEP-2001
Pb-LIR08	Lead Leachable	---	14-NOV-2001	---	---
PHC1PHCV	CCME PHC F1 C6-10	---	---	---	11-SEP-2001
CCMEPHCS	CCMEPHCS	---	---	---	19-SEP-2001
GHH-TOT	PHC GHH	---	---	---	24-SEP-2001
GHH5-MIN	PHC GHH SILICAGEL	---	---	---	25-SEP-2001
PKG-BT17	BTEX by P&T	---	---	---	19-SEP-2001
Matrix:		Soil	Soil	Soil	Soil
Sampled on:		3-SEP-2001	3-SEP-2001	3-SEP-2001	3-SEP-2001

Philip ID:		31011577	31011578	31011579	31011580
Client ID:		RI-16	RI-17	RI-18	RI-19
TCLPTC01	TCLP Extraction	---	---	---	09-NOV-2001
00250760	Moisture	18-SEP-2001	18-SEP-2001	18-SEP-2001	18-SEP-2001
CCMESOIL	CCME 99 SOILS	14-SEP-2001	14-SEP-2001	14-SEP-2001	14-SEP-2001
Hg-T200M	Mercury	17-SEP-2001	17-SEP-2001	15-SEP-2001	17-SEP-2001
Tl-T200G	Thallium	13-SEP-2001	13-SEP-2001	13-SEP-2001	13-SEP-2001
Pb-LIR08	Lead Leachable	---	---	---	14-NOV-2001
PHC1PHCV	CCME PHC F1 C6-10	11-SEP-2001	11-SEP-2001	11-SEP-2001	11-SEP-2001
CCMEPHCS	CCMEPHCS	17-SEP-2001	17-SEP-2001	17-SEP-2001	17-SEP-2001
GHH-TOT	PHC GHH	24-SEP-2001	---	---	---
GHH5-MIN	PHC GHH SILICAGEL	25-SEP-2001	---	---	---
PKG-BT17	BTEX by P&T	19-SEP-2001	19-SEP-2001	19-SEP-2001	19-SEP-2001
Matrix:		Soil	Soil	Soil	Soil
Sampled on:		3-SEP-2001	3-SEP-2001	3-SEP-2001	3-SEP-2001