

APEC	Description
1	Former Leckie JW Co. Tannery
2	Lumber Storage Area
3	Paint AST in the east central portion of the main building
4	Former Mill Service Shop
5	Waste Oil AST outside the Mill Service Shop
6	Former Fueling Facility
7	Main Building (lumber storage, packaging, application of PCP)
8	Septic USTs
9	Former Lumber Storage Area
10	Gasoline UST
11	Waste Oil AST
12	Deposal Area for Hydraulic In-ground Hoses
13	Former Green Chain and Planer Mill
14	Former Chlorophenol Dip Tank (location of former hydraulic hoses)
15	Wood Chips and Wood Debris Area
16	Area of Mineral Oil and Grease above Level C in soil identified by SROR
17	Auto Wrecking Yard on Timberland Rd
18	Rypac Aluminium Recycling Ltd
19	Former Kib A - Lot 3 (South)
20	Former Kib - Lot 5
21	Oil Storage Shed - Lot 6
22	Former Kib - Lot 6
23	Former Green Chain - Lot 6
24	Former PCP Spray Tank, Spray Area and Lumber Storage
25	Lumber Storage Area - Lot 6
26	FB - Lot 2/4
27	Historical Chromium-impacted Soil Scoping on Lots 2/4
28	FB - Lot 3
29	FB - Lot 5
30	FB - Lot 6
31	Lumber Storage Area - Lot 5
32	Former Kib B - Lot 3 (North)
33	Diesel Spill - Railway
34	VPH and LEPH Plume by Warehouse - Lot 6

Area ID	Station ID	Depth (m)	Parameter	Concentration (ug/L)	BC CSR (ug/L)	FCSAP (ug/L)	CLIL (ug/L)
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 4	2-BH27	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0

Area ID	Station ID	Depth (m)	Parameter	Concentration (ug/L)	BC CSR (ug/L)	FCSAP (ug/L)	CLIL (ug/L)
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0
LOT 5	5-BH1	0.2	2,4,6-TCP	1.2	1.0	1.0	1.0

LEGEND

- Area of Potential Environmental Concern (APEC)
- Railway
- Site Boundary
- Existing Structure
- Property Boundary
- Test Pit
- Borehole
- Monitoring Well
- Surface Soil Sample

NOTES

- All units in ug/L
- "-" indicates that there is no applicable standard or analyses were not performed.
- Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)
- Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)
- Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)
- Coloured rings represent most recent sampling date.
- Refer to Tables for Full Groundwater Results.

ANALYTICAL RESULTS - PHENOLS / CHLOROPHENOLS IN GROUNDWATER

Project: DATA GAP ANALYSIS SURREY-BROWNSVILLE, SURREY, BC

Client: VANCOUVER FRASER PORT AUTHORITY

Date: MAY 2013

Scale 1:1000

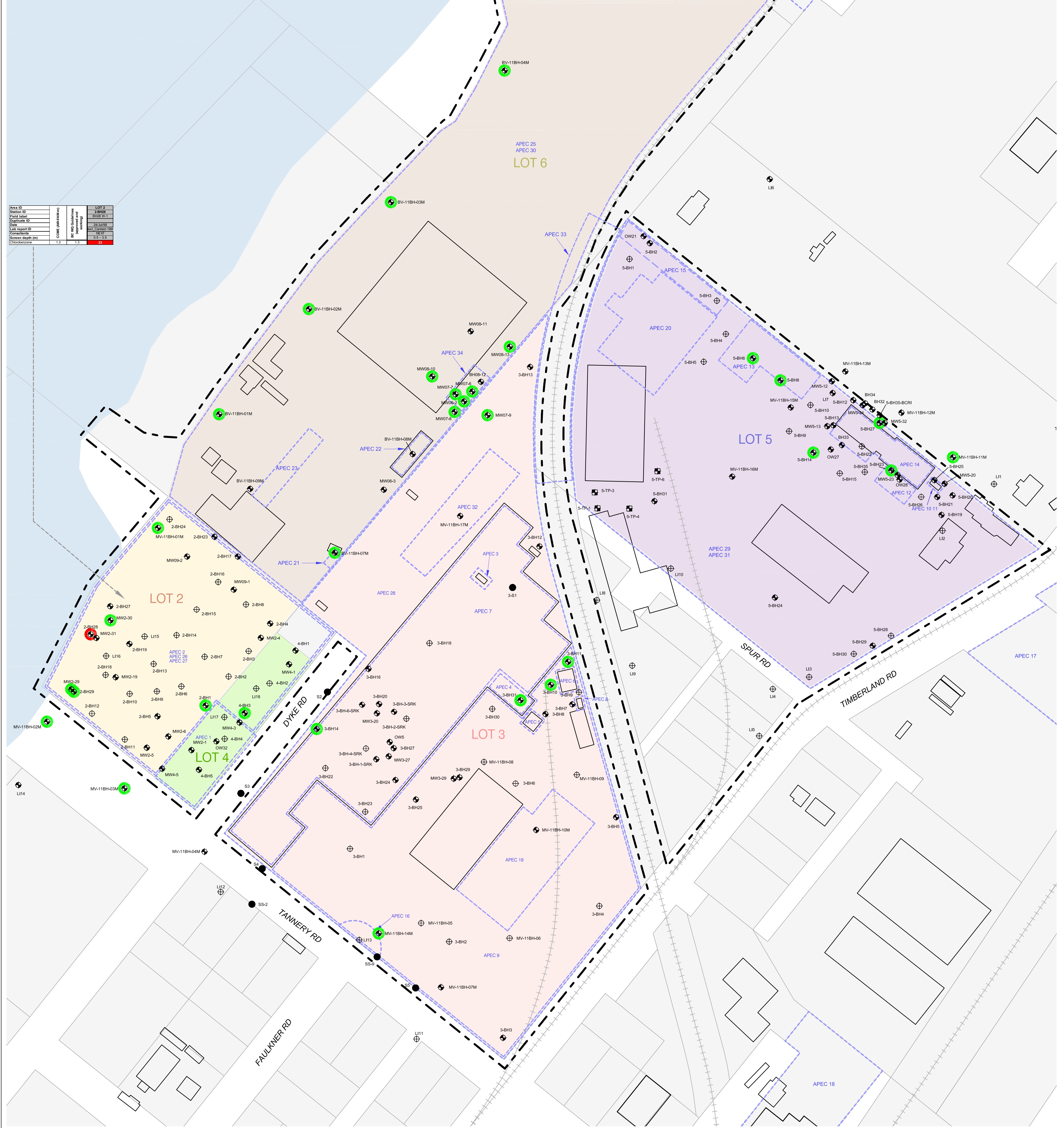
40 20 0 20 40 metres

FRANZ ENVIRONMENTAL INC.

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2900-1103/CAD/CI/Analytical Posters.dwg

APEC	Description
1	Former Leckie JW Co. Tannery
2	Lumber Storage Area
3	Paint AST in the east central portion of the main building
4	Former Mill Service Shop
5	Waste Oil AST outside the Mill Service Shop
6	Former Fueling Facility
7	Main Building (lumber storage, packaging, application of PCP)
8	Septic USTs
9	Former Lumber Storage Area
10	Gasoline UST
11	Waste Oil AST
12	Disposal Area for Hydraulic In-ground Hoses
13	Former Green Chain and Planer Mill
14	Former Chlorophenol Dip Tank (location of former hydraulic hoses)
15	Wood Chips and Wood Debris Area
16	Area of Mineral Oil and Grease above Level C in soil identified by SROR
17	Auto Wrecking Yard on Timberland Rd
18	Rypac Aluminum Recycling Ltd
19	Former K&H A - Lot 3 (South)
20	Former K&H - Lot 5
21	Oil Storage Shed - Lot 6
22	Former K&H - Lot 6
23	Former Green Chain - Lot 6
24	Former PCP Spray Tank, Spray Area and Lumber Storage
25	Lumber Storage Area - Lot 6
26	FB - Lot 2/4
27	Historical Chromium-impacted Soil Spill on Lots 2/4
28	FB - Lot 3
29	FB - Lot 5
30	FB - Lot 6
31	Lumber Storage Area - Lot 5
32	Former K&H B - Lot 3 (North)
33	Diesel Spill - Railway
34	VPH and LEPH Plume by Warehouse - Lot 6



Area ID	Station ID	Depth (m)	Screen depth (m)	Screen diameter (mm)
1	1	1.5	1.5	100
2	2	1.5	1.5	100
3	3	1.5	1.5	100
4	4	1.5	1.5	100
5	5	1.5	1.5	100
6	6	1.5	1.5	100
7	7	1.5	1.5	100
8	8	1.5	1.5	100
9	9	1.5	1.5	100
10	10	1.5	1.5	100
11	11	1.5	1.5	100
12	12	1.5	1.5	100
13	13	1.5	1.5	100
14	14	1.5	1.5	100
15	15	1.5	1.5	100
16	16	1.5	1.5	100
17	17	1.5	1.5	100
18	18	1.5	1.5	100
19	19	1.5	1.5	100
20	20	1.5	1.5	100
21	21	1.5	1.5	100
22	22	1.5	1.5	100
23	23	1.5	1.5	100
24	24	1.5	1.5	100
25	25	1.5	1.5	100
26	26	1.5	1.5	100
27	27	1.5	1.5	100
28	28	1.5	1.5	100
29	29	1.5	1.5	100
30	30	1.5	1.5	100
31	31	1.5	1.5	100
32	32	1.5	1.5	100
33	33	1.5	1.5	100
34	34	1.5	1.5	100

Symbol	Description
[Blue dashed line]	Area of Potential Environmental Concern (APEC)
[Black dashed line]	Railway
[Black solid line]	Site Boundary
[Grey outline]	Existing Structure
[Grey solid line]	Property Boundary
[Black square]	Test Pit
[Black circle]	Borehole
[Black circle with cross]	Monitoring Well
[Black circle]	Surface Soil Sample
[Red circle]	One or more analytical parameters are greater than the applicable CCME Groundwater Standards
[Green circle]	All analytical parameters are less than the applicable CCME Groundwater Standards
[Red circle]	One or more analytical parameters are greater than the applicable BC WQ Groundwater Guidelines
[Green circle]	All analytical parameters are less than the applicable BC WQ Groundwater Guidelines

Color	Lot
Yellow	Lot 2
Orange	Lot 3
Green	Lot 4
Purple	Lot 5
Brown	Lot 6

NOTES
 - All units in ug/L
 - "-" indicates that there is no applicable standard or analyses were not performed.
 - Red cells indicates parameter exceeds CCME (AW-fIAW-m). (Current as of 15-November-2012)
 - Bold cells indicates parameter exceeds BC WQ Guidelines
 - Coloured rings represent most recent sampling date.
 - Refer to Tables for Full Groundwater Results.

ANALYTICAL RESULTS - VOCs IN GROUNDWATER

Project: DATA GAP ANALYSIS SURREY-BROWNSVILLE, SURREY, BC

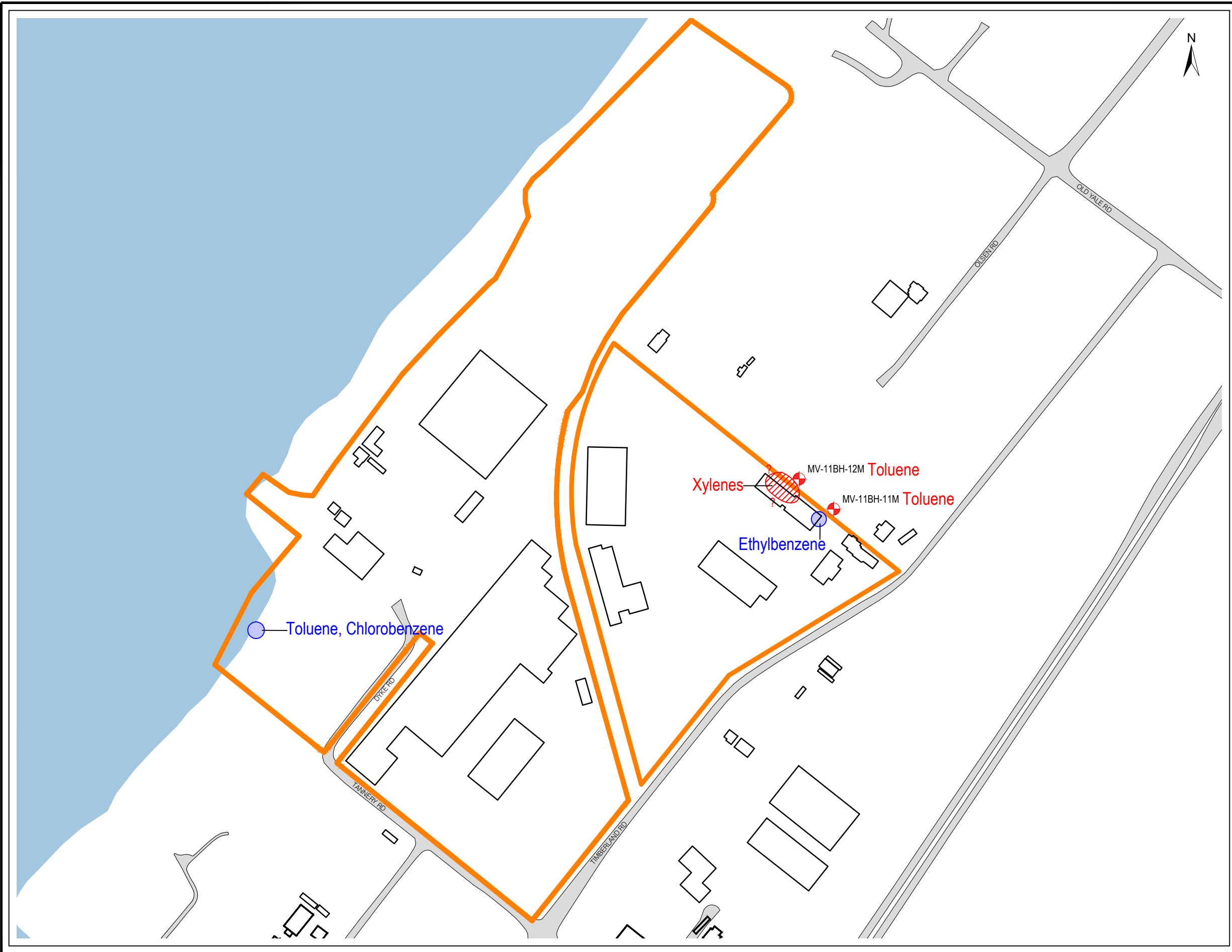
Client: VANCOUVER FRASER PORT AUTHORITY

Date: MAY 2013

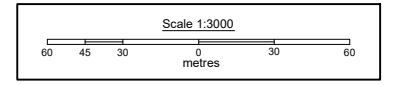
FIGURE 14

Scale 1:1000
 40 20 0 20 40 metres

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- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Delineation Incomplete in this Direction
 - Contaminated Soil Identified at this Location Not Delineated



Title: LOCATION AND EXTENT OF VOCs, F1 TO F4, AND BTEX CONTAMINATION UNDER FEDERAL GUIDELINES (SOIL AND GROUNDWATER)

Project: SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC

Client: VANCOUVER FRASER PORT AUTHORITY

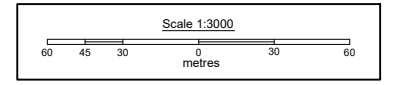


Date: MAY 2013

FIGURE 15A



- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Delineation Incomplete in this Direction



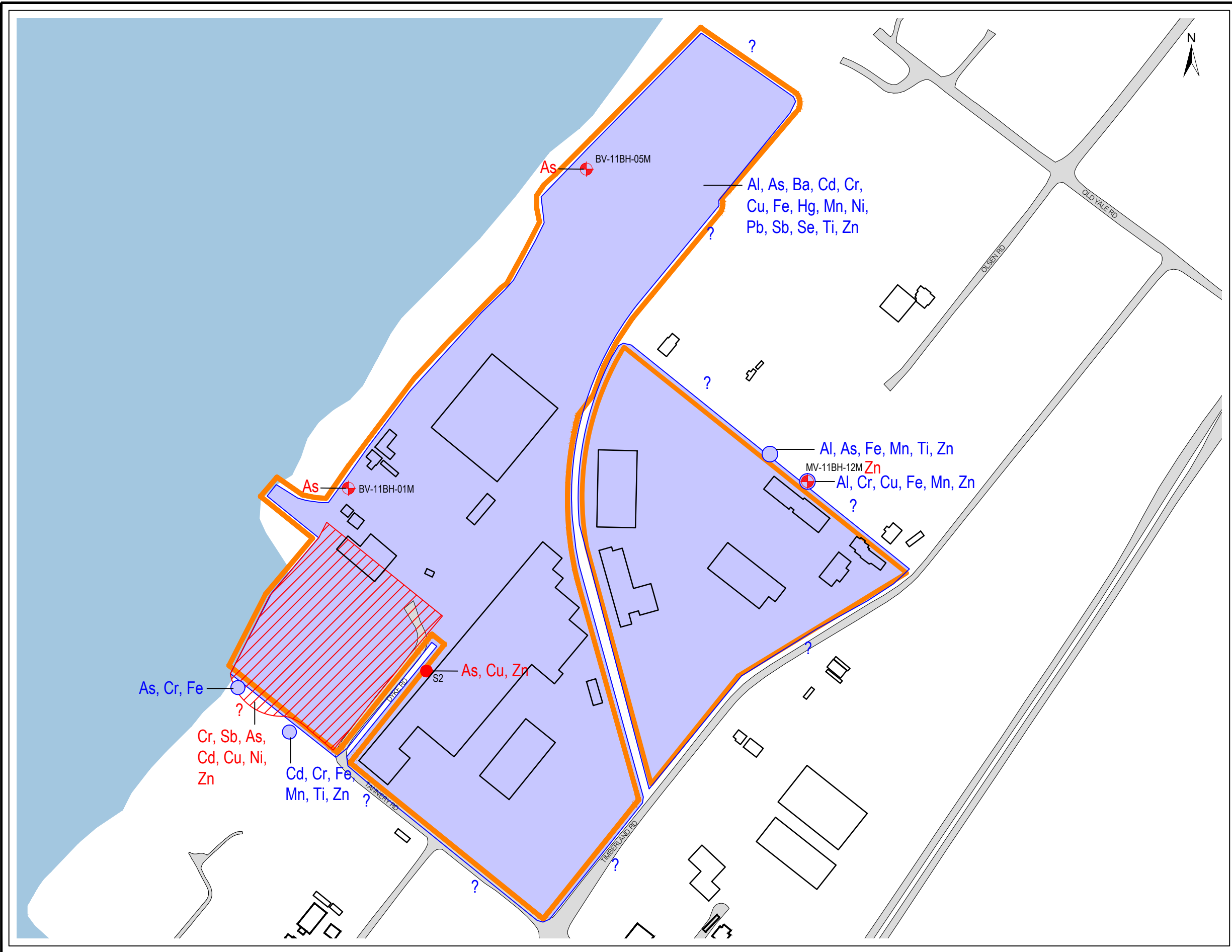
Title: LOCATION AND EXTENT OF VOCs, EPH, L/HEPH, AND BTEX CONTAMINATION UNDER PROVINCIAL GUIDANCE (SOIL AND GROUNDWATER)

Project: SUPPLEMENTAL SITE INVESTIGATION
MOUNTAINVIEW RELOAD/BROWNSVILLE AREA
SURREY, BC

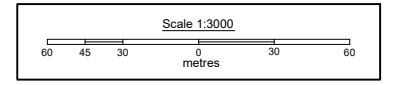
Client: VANCOUVER FRASER PORT AUTHORITY



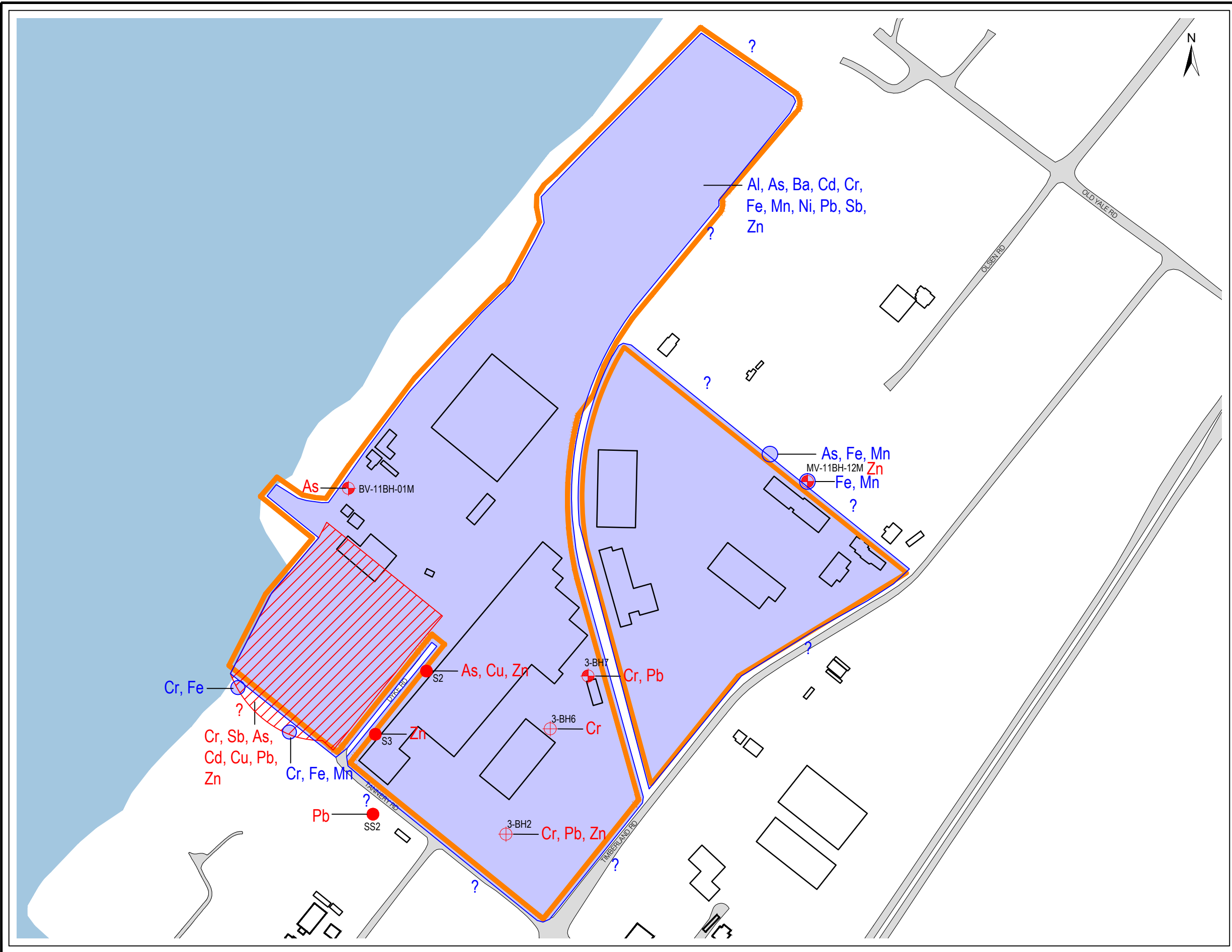
Date: MAY 2013
FIGURE 15B



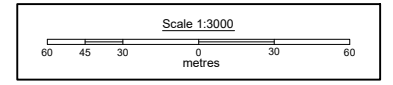
- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Contaminated Soil Identified at this Location □ Not Delineated
 - Delineation Incomplete in this Direction



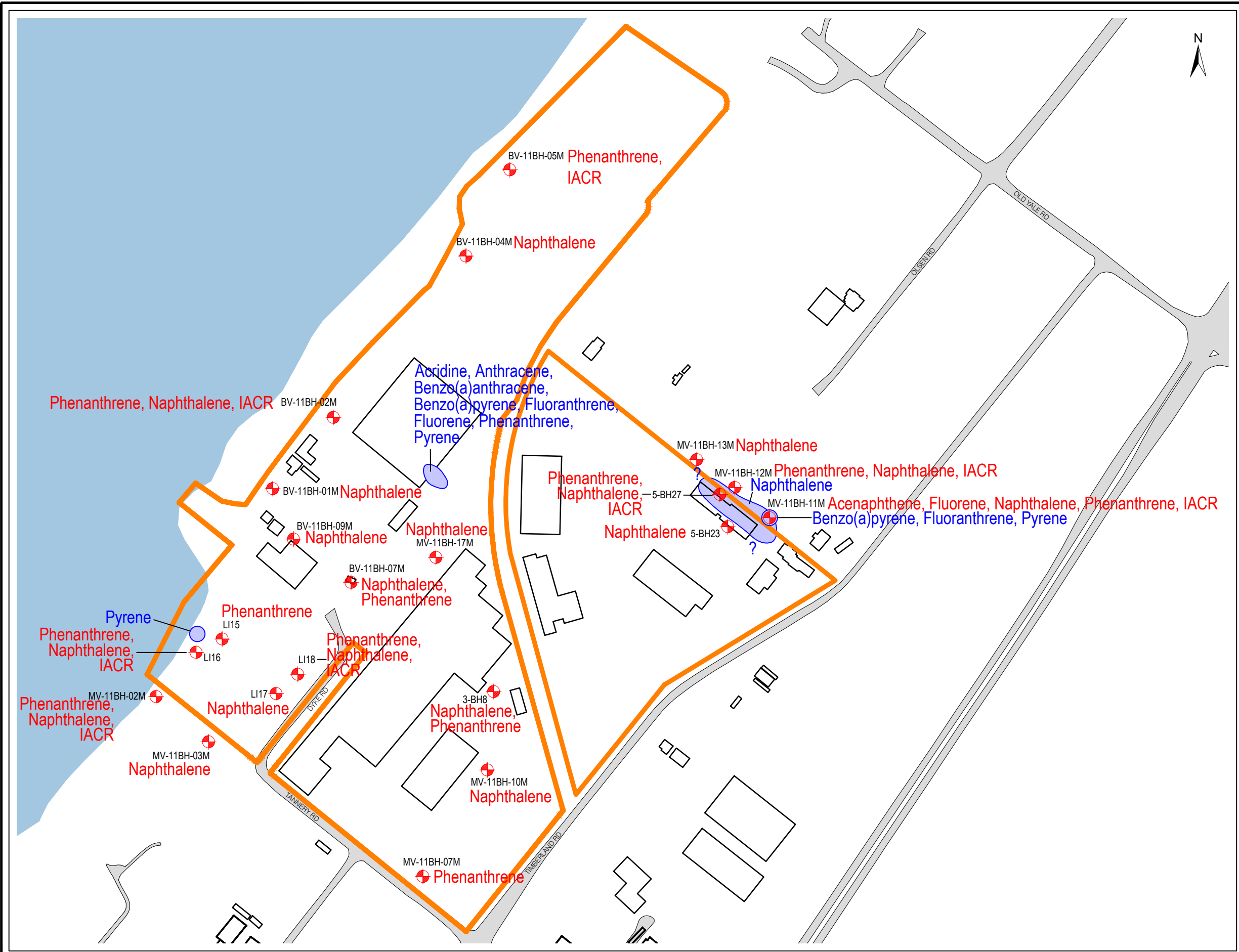
Title:	LOCATION AND EXTENT OF METALS CONTAMINATION UNDER FEDERAL GUIDANCE (SOIL AND GROUNDWATER)
Project:	SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC
Client:	VANCOUVER FRASER PORT AUTHORITY
Date:	MAY 2013
FIGURE 16A	



- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Contaminated Soil Identified at this Location Not Delineated
 - Delineation Incomplete in this Direction



Title:	LOCATION AND EXTENT OF METALS CONTAMINATION UNDER PROVINCIAL GUIDANCE (SOIL AND GROUNDWATER)
Project:	SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC
Client:	VANCOUVER FRASER PORT AUTHORITY
Date:	MAY 2013
FIGURE 16B	

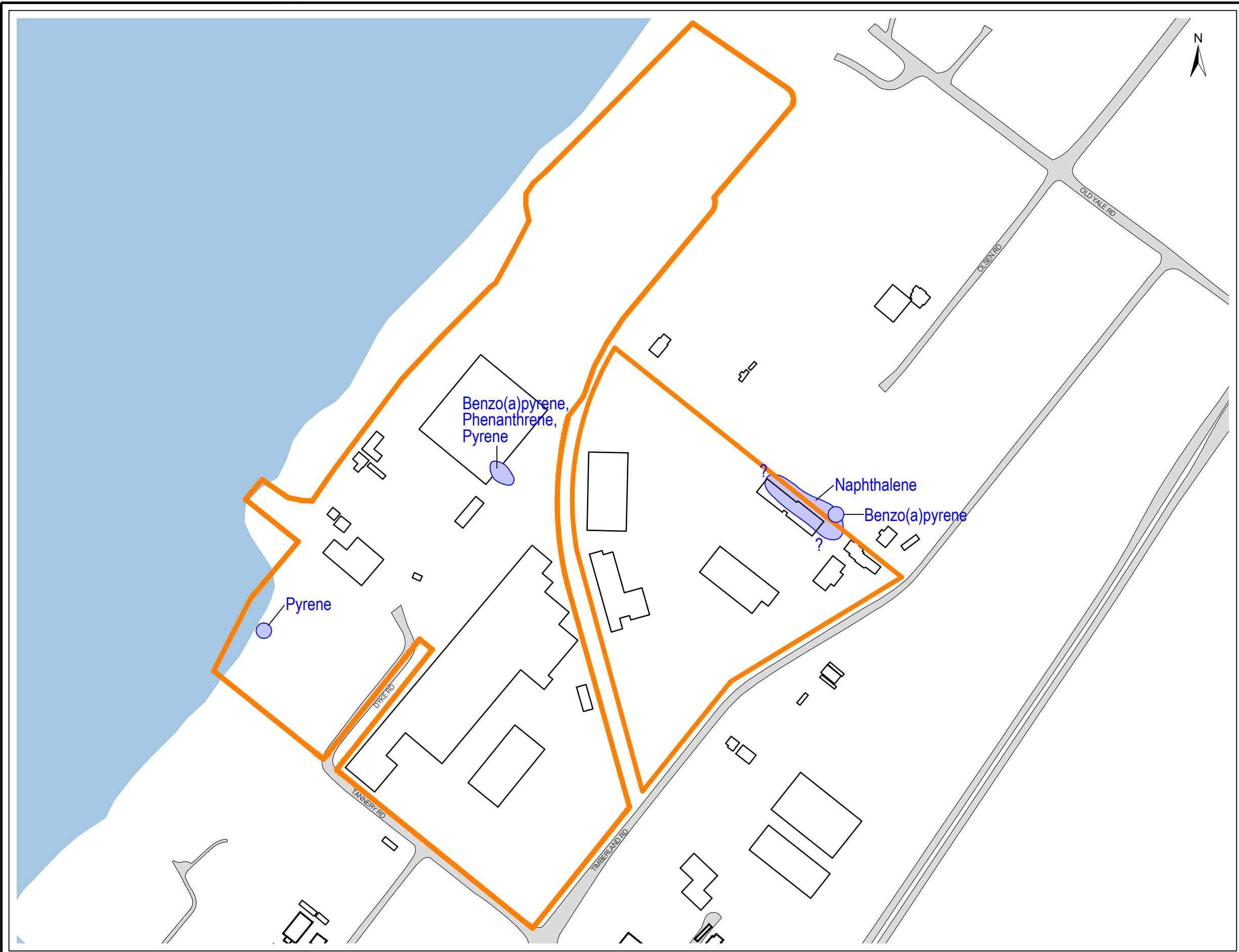


- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Delineation Incomplete in this Direction
 - + Contaminated Soil Identified at this Location Not Delineated

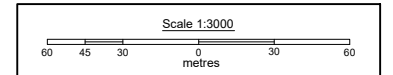
Scale 1:3000
60 45 30 0 30 60
metres

Title:	LOCATION AND EXTENT OF PAH CONTAMINATION UNDER FEDERAL GUIDANCE (SOIL AND GROUNDWATER)
Project:	SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC
Client:	VANCOUVER FRASER PORT AUTHORITY
Date:	MAY 2013

FIGURE 17A



- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Delineation Incomplete in this Direction
 - Contaminated Soil Identified at this Location Not Delineated



Title: LOCATION AND EXTENT OF PAH CONTAMINATION UNDER PROVINCIAL GUIDANCE (SOIL AND GROUNDWATER)

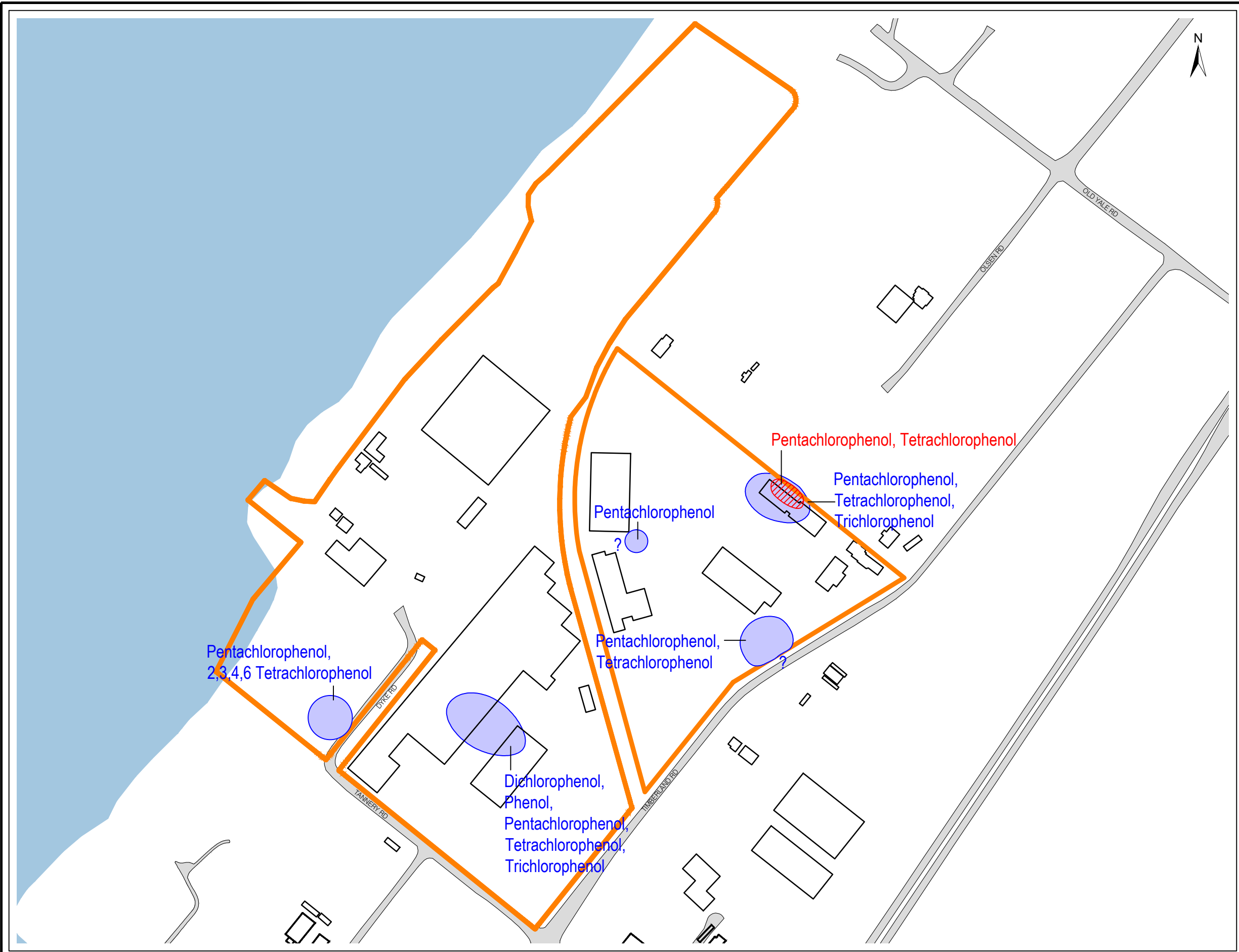
Project: SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC

Client: VANCOUVER FRASER PORT AUTHORITY

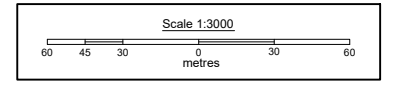


Date: MAY 2013

FIGURE 17B



- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Delineation Incomplete in this Direction



Title: LOCATION AND EXTENT OF PHENOLS/CHLOROPHENOLS CONTAMINATION UNDER FEDERAL GUIDANCE (SOIL AND GROUNDWATER)

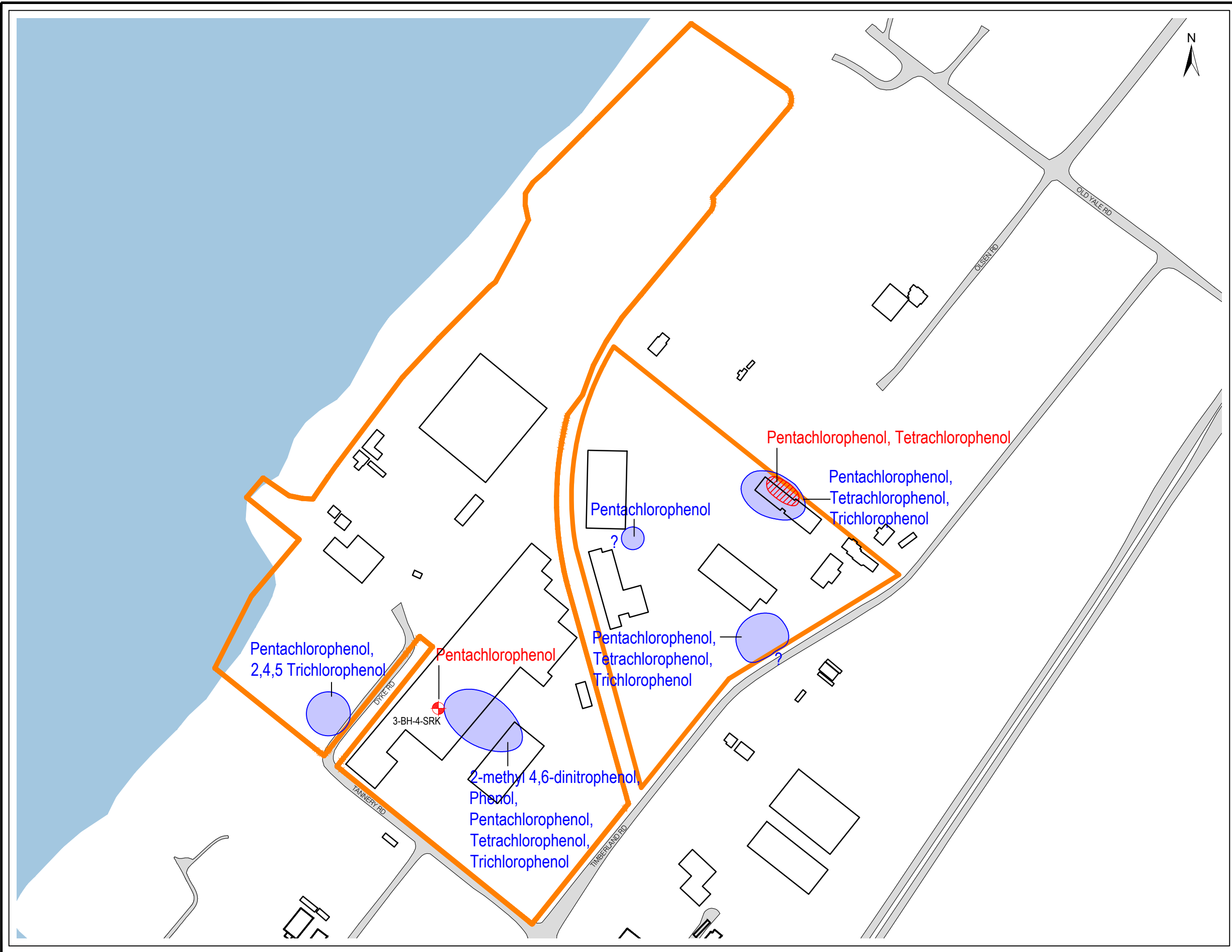
Project: SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC

Client: VANCOUVER FRASER PORT AUTHORITY

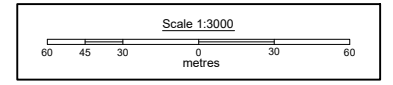
Date: MAY 2013

FIGURE 18A





- LEGEND**
- Site Boundary
 - Approximate Extent of Soil Contamination
 - Approximate Extent of Groundwater Contamination
 - Existing Building
 - Delineation Incomplete in this Direction
 - Contaminated Soil Identified at this Location Not Delineated



Title: LOCATION AND EXTENT OF PHENOLS/CHLOROPHENOLS CONTAMINATION UNDER PROVINCIAL GUIDANCE (SOIL AND GROUNDWATER)

Project: SUPPLEMENTAL SITE INVESTIGATION MOUNTAINVIEW RELOAD/BROWNSVILLE AREA SURREY, BC

Client: VANCOUVER FRASER PORT AUTHORITY



Date: MAY 2013

FIGURE 18B

TABLES

Table 2
Soil Analytical Results-Anions
Lots 2 and 4, Surrey-Brownsville Site

Area ID				1,2,26,27	1,2,26,27
Station ID				MV-11BH-02M	MV-11BH-03M
Field label				MV-11BH-02M-5	MV-11BH-03M-3
Duplicate ID					
Date				17/Dec/11	17/Dec/11
Lab report ID				11V560614	11V560614
Consultants					
Depth (m)				4.5 – 5	2 – 3
Conventionals					
Moisture content (%)				25.9	18.2
pH	6 to 8	6 to 8		6.4	6.2
Anions					
Chloride ion - Wet Soluble			90	45	4
Chloride ion - Wet Soluble (ug/L)				101000	11000
Sulphide (%)				0.11	<u><0.01</u>

Notes

All units in ug/g, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL (Coarse, Surface). (Current as of 22-April-2013)

Bold indicates parameter exceeds CCME IL (Fine, Subsoil). (Current as of 22-April-2013)

Underline indicates parameter exceeds BC CSR IL (STRINGENT). (Current as of 22-April-2013)

Table 3
Soil Analytical Results Compared to CSR Schedule 7 - Anions
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	1,2,26,27	1,2,26,27
Station ID		MV-11BH-02M	MV-11BH-03M
Field label		MV-11BH-02M-5	MV-11BH-03M-3
Duplicate ID			
Date		17/Dec/11	17/Dec/11
Lab report ID		11V560614	11V560614
Consultants			
Depth (m)		4.5 – 5	2 – 3
Anions		-	
Chloride ion - Wet Soluble	35	45	4
Chloride ion - Wet Soluble (ug/L)	-	101000	11000
Sulphide (%)	-	0.11	<0.01

Notes

All units in ug/g, unless otherwise noted.

"-" indicates that analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 4
Soil Analytical Results - Monocyclic Aromatic Hydrocarbons
Lots 2 and 4, Surrey-Brownsville Site

Area ID	2		2		2		2		2		2		2		2					
Station ID	LI15		2-BH1		2-BH1		2-BH11		2-BH16		2-BH2		2-BH27		2-BH7		2-BH8		2-BH9	
Field label	LI 15-3		BH1-3A		BH1-3B-dup		BH11-3		BH16-3		BH2-1A		BH27-3		BH7-3		BH8-3		BH9-3	
Duplicate ID			BH1-3B-dup		BH1-3A															
Date	21/Mar/94		15/Jul/98		15/Jul/98		15/Jul/98		16/Jul/98		15/Jul/98		16/Jul/98		15/Jul/98		15/Jul/98		15/Jul/98	
Lab report ID	1675-K		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil		J-NEXT CanTest-1998-soil	
Consultants	SRK		NEXT		NEXT		NEXT		NEXT		NEXT		NEXT		NEXT		NEXT		NEXT	
Depth (m)	2.4 - 3.3		1.8		1.8		2.3		2.3		0.5		2.3		2.4		2.3		2.3	
Grain Type	coarse		coarse		coarse		coarse		coarse		coarse		coarse		fine		coarse		coarse	
Benzene	0.0068	0.03	0.0068	0.03	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	0.018	0.082	0.018	0.082	7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Styrene	50	50	50	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	0.08	0.37	0.08	0.37	2.5	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	2.4	11	2.4	11	20	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Area ID	2		2		2		1, 2, 26, 27		1, 2, 26, 27		1, 2, 26, 27		1, 2, 26, 27	
Station ID	4-BH3		MV-11BH-01M		MV-11BH-01M		MV-11BH-02M		MV-11BH-02M		MV-11BH-03M		MV-11BH-03M	
Field label	BH3 3-3 @ 7.5'		MV-11BH-01M-4		MV-Dup		MV-11BH-02M-5		MV-11BH-02M-6		MV-11BH-03M-3		MV-11BH-03M-4	
Duplicate ID			MV-Dup		MV-11BH-01M-4									
Date	16/Jul/98		16/Dec/11		16/Dec/11		17/Dec/11		17/Dec/11		17/Dec/11		17/Dec/11	
Lab report ID	8072728		11V560293		11V560293		11V560614		11V560614		11V560614		11V560614	
Consultants	NEXT		Franz		Franz		Franz		Franz		Franz		Franz	
Depth (m)	2.3		4.5 - 5		4.5 - 5		4.5 - 5		5 - 6		2 - 3		3 - 4	
Grain Type	coarse		fine		fine		coarse		coarse		coarse		fine	
Benzene	0.0068	0.03	0.0068	0.03	0.04	<0.01	<0.025	<0.025	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.018	0.082	0.018	0.082	7	<0.01	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	50	50	50	50	50	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	0.08	0.37	0.08	0.37	2.5	0.02	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m+p-Xylene	-	-	-	-	-	-	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	-	-	-	-	-	-	<0.025	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (total)	2.4	11	2.4	11	20	<0.01	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL (Fine, Surface). (Current as of 14-November-2012)
Bold indicates parameter exceeds CCME IL (Coarse, Surface). (Current as of 14-November-2012)
Underline indicates parameter exceeds CCME IL (Fine, Subsoil). (Current as of 14-November-2012)
Italic indicates parameter exceeds CCME IL (Coarse, Subsoil). (Current as of 14-November 2012)
 Italic and dark blue text indicates parameter exceeds BC CSR IL (STRINGENT). (Current as of 14-November-2012)

Table 5
Soil Analytical Results Compared to CSR Schedule 7 - MAHs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	2	2	2	2	2	2	
Station ID		LI15	2-BH1	2-BH1	2-BH11	2-BH16	2-BH2	2-BH27	2-BH7	2-BH8	2-BH9
Field label		LI 15-3	BH1-3A	BH1-3B-dup	BH11-3	BH16-3	BH2-1A	BH27-3	BH7-3	BH8-3	BH9-3
Duplicate ID			BH1-3B-dup	BH1-3A							
Date		21/Mar/94	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98
Lab report ID		1675-K	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil
Consultants		SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)		2.4 – 3.3	1.8	1.8	2.3	2.3	0.5	2.3	2.4	2.3	2.3
Benzene	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Ethylbenzene	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Styrene	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Toluene	1.5	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	
o-Xylene	-	-	-	-	-	-	-	-	-	-	
Xylenes (total)	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID		4-BH3	MV-11BH-01M	MV-11BH-01M	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M
Field label		BH3 3-3 @ 7.5'	MV-11BH-01M-4	MV-Dup	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4
Duplicate ID			MV-Dup	MV-11BH-01M-4				
Date		16/Jul/98	16/Dec/11	16/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID		8072728	11V560293	11V560293	11V560614	11V560614	11V560614	11V560614
Consultants		NEXT	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		2.3	4.5 – 5	4.5 – 5	4.5 – 5	5 – 6	2 – 3	3 – 4
Benzene	0.04	<0.01	<0.025	<0.025	<0.02	<0.02	<0.02	
Ethylbenzene	1	<0.01	<0.025	<0.025	<0.05	<0.05	<0.05	
Styrene	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	
Toluene	1.5	0.02	<0.025	<0.025	<0.05	<0.05	<0.05	
m+p-Xylene	-	-	<0.025	<0.025	<0.05	<0.05	<0.05	
o-Xylene	-	-	<0.025	<0.025	<0.05	<0.05	<0.05	
Xylenes (total)	5	<0.01	-	-	<0.05	<0.05	<0.05	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 6
Soil Analytical Results - Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	1,2,26,27	1,2,26,27	2	2	2	2	2	1	1	1	2	2	2	2	
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	LH14	LH14	LH15	LH15	LH15	LH16	LH16	LH17	LH17	LH17	LH18	2-BH1	2-BH1	2-BH1	2-BH1
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	14-Jan	14-Feb	15-Jan	15-Feb	L1 15-3	16-Feb	16-Mar	17-Jan	17-Feb	17-Mar	18-Jan	BH1-2A	BH1-2B	BH1-2B-dup	BH1-2B
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	NEXT	NEXT	NEXT	NEXT
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	0.2 - 1.5	2.5 - 2.8	0.2 - 1.5	2.2 - 2.4	2.4 - 3.3	2.2 - 2.4	2.4 - 3.3	0.75 - 1.5	2.3 - 2.4	2.3 - 2.4	0.6 - 0.9	1.1	1.1	1.1	1.1
pH	6 to 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	5.3	5.3	5.3
Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10	<10
Arsenic	12	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10	<10
Barium	2000	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	41	41	41
Beryllium	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1
Boron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	22	1.5 to 150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.3
Calcium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	87	60	31.6	31.3	36.3	17600	323	4130	135	625	410	106	117	*	*	*	*	*	3	<1	<1	<1
Cobalt	300	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	11	11	11
Copper	91	100 to 250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	600	100 to 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<30	55	55	55
Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	19000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	50	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08	0.33	0.33	0.33
Molybdenum	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<4	<4	<4	<4
Nickel	50	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	9	9	9
Selenium	2.9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3	<3	<3	<3
Silver	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	<2	<2	<2
Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	100000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	300	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	300	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	13	13	13
Zinc	360	150 to 600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	132	132	132

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	2-BH1	2-BH1	2-BH1	2-BH10	2-BH11	2-BH11	2-BH11	2-BH12	2-BH12	2-BH12	2-BH13	2-BH13	2-BH13	2-BH13	2-BH13
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BH1-3A	BH1-3B-dup	BH1-4A	BH10-5	BH11-3	BH11-4	BH11-5	BH12-4	BH12-5	BH12-6	BH13-2	BH13-3	BH13-3	BH13-3	BH13-3
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT	CanTest-1998-soil, NEXT
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	1.8	1.8	2.4	3.8	2.3	3	3.7	3	3.8	4.6	1.5	2.4	2.4	2.4	2.4
pH	6 to 8	-	-	-	-	-	-	6.1	6.3	6.7	7.2	8	5.8	7	7.8	7.2	7.3	8.1	6.7	6.7	6.7	6.7
Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	40	40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Arsenic	12	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Barium	2000	400	54	33	145	103	92	79	143	60	92	144	88	98	98	98	98	98	98	98	98	
Beryllium	8	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Boron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	22	1.5 to 150	*	*	0.5	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	0.5	<0.3	<0.3	0.5	<0.3	*	*	*	*	*	
Calcium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	87	60	*	*	*	*	34	*	*	*	33	*	*	*	38	*	*	*	*	*	*	
Cobalt	300	300	3	8	10	11	8	9	11	7	8	20	9	<1	<1	<1	<1	<1	<1	<1	<1	
Copper	91	100 to 250	35	54	33	28	18	18	38	15	40	53	19	127	127	127	127	127	127	127	127	
Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	600	100 to 2000	589	556	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	66	<30	<30	<30	<30	<30	572	
Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	19000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	50	150	0.28	0.18	0.05	0.04	0.02	0.02	0.02	0.02	0.064	0.04	0.02	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	
Molybdenum	40	40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Nickel	50	500	49	48	32	49	35	40	44	33	31	73	38	44	44	44	44	44	44	44	44	
Selenium	2.9	10	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Silver	40	40	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	100000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	300	300	88	43	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	9	
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	300	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	130	-	35	17	61	36	35	35	57	37	35	67	42	30	30	30	30	30	30	30	30	30
Zinc	360	150 to 600	*	*	167	61	44	69	140	38	134	108	46	489	489	489	489	489	489	489	489	489

Notes
All units in ug/g, unless otherwise noted.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL. (Current as of 14-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 14-November-2012)

Table 6
Soil Analytical Results - Metals
Lots 2 and 4, Surrey-Brownville Site

Area ID	CCME IL		BC CSR IL		2	2	2	2	2	2	2	2	2	2		
Station ID					2-BH13	2-BH14	2-BH15	2-BH16	2-BH17	2-BH18	2-BH19	2-BH2	2-BH23	2-BH24	2-BH27	2-BH28
Field label					BH13-4	BH14-4	BH15-4	BH16-3	BH17-1	BH18-5	BH19-4A	BH2-2A	BH23-2	BH24-3	BH27-5	BH28-3
Duplicate ID																
Date					15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98
Lab report ID					EXT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	NEXT_CanTest-1998	EXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	J-NEXT_CanTest-1998-soil
Consultants					NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)					3	2.7	3	2.3	0.8	3.4	2.7	1.1	1.5	2.3	3.8	2.3
pH	6 to 8	-	-	-	6.1	7.5	8.1	6.7	7.8	7.5	7.3	7.5	7.6	7.8	6.3	7.7
Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	40	40	<10	*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	12	15	<10	*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Barium	2000	400	98	141	60	127	259	41	122	29	94	147	106	57	57	57
Beryllium	8	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	22	1.5 to 150	*	4.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Calcium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	87	60	*	*	55	51	53	21	*	*	34	33	*	*	31	31
Cobalt	300	300	11	<1	8	13	8	4	12	<1	9	8	9	7	7	7
Copper	91	100 to 250	68	59	15	35	53	7	31	16	27	46	34	16	16	16
Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	600	100 to 2000	51	<30	<30	<30	34	<30	<30	<30	<30	<30	<30	<30	<30	<30
Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	19000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	50	150	0.12	1.35	0.02	0.05	0.03	0.02	0.05	0.05	0.04	0.03	0.07	0.02	0.02	0.02
Molybdenum	40	40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel	50	500	52	25	35	53	30	18	50	5	32	30	39	33	33	33
Selenium	2.9	10	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Silver	40	40	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	100000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	300	300	17	12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	300	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	130	-	53	121	39	54	39	13	38	7	21	30	42	36	36	36
Zinc	360	150 to 600	*	545	43	68	151	23	68	109	56	52	76	37	37	37

Area ID	CCME IL		BC CSR IL		2	2	2	2	2	2	2	2	2	2	2	
Station ID					2-BH28	2-BH28	2-BH29	2-BH29	2-BH29	2-BH3	2-BH5	2-BH6	2-BH8	2-BH9	4-BH1	4-BH2
Field label					BH28-5	BH28-6	BH29-4	BH29-5	BH29-6	BH3-3A	BH5-4	BH6-5	BH8-3	BH9-4	BH1 1-2 @ 5'	BH 2 2-3@7.5'
Duplicate ID																
Date					16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98
Lab report ID					EXT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	NEXT_CanTest-1998	EXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	NEXT_CanTest-1998	8072728	8072728
Consultants					NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)					3.7	4.6	3	3.5	4.3	1.5	3	3.7	2.3	3	1.5	2.3
pH	6 to 8	-	-	-	6	7.2	7.1	6.1	7.4	7.4	7.8	5.9	7.4	5.3	5.5	7.4
Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31700	10500
Antimony	40	40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	12	15	<10	<10	<10	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10
Barium	2000	400	69	129	88	132	103	33	79	126	111	116	172	73	73	73
Beryllium	8	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron	-	-	-	-	-	-	-	-	-	-	-	-	-	10	4	4
Cadmium	22	1.5 to 150	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1.4	1	<0.3	<0.3
Calcium	-	-	-	-	-	-	-	-	-	-	-	-	-	9540	8910	8910
Chromium	87	60	*	*	35	*	*	30	41	*	48	*	*	74	46	46
Cobalt	300	300	10	14	9	14	13	6	8	12	12	7	12	9	9	9
Copper	91	100 to 250	41	39	24	41	53	10	17	30	31	54	65	20	20	20
Iron	-	-	-	-	-	-	-	-	-	-	-	-	31900	20500	20500	20500
Lead	600	100 to 2000	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	103	218	<30	<30
Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	10500	8620	8620
Manganese	-	19000	-	-	-	-	-	-	-	-	-	-	-	556	408	408
Mercury	50	150	0.13	0.05	0.03	0.06	0.07	0.01	0.02	0.03	0.03	0.09	0.13	0.04	0.04	0.04
Molybdenum	40	40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel	50	500	46	45	40	56	43	22	34	41	45	29	46	37	37	37
Selenium	2.9	10	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Silver	40	40	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	840	363	363
Sodium - Wet Soluble	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	100000	-	-	-	-	-	-	-	-	-	-	-	62	34	34
Thallium	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	300	300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	5	<5	<5
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	1140	465	465
Uranium	300	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	130	-	42	55	40	57	49	27	39	57	54	37	78	43	43	43
Zinc	360	150 to 600	65	66	47	82	93	42	41	126	64	*	228	48	48	48

Notes
All units in ug/g, unless otherwise noted.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL. (Current as of 14-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 14-November-2012)

Table 6
Soil Analytical Results - Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	2	2	2	1	1	1	1	1	1	2	2	2		
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	4-BH3	4-BH3	4-BH3	4-BH4	4-BH4	4-BH4	4-BH4	4-BH5	4-BH5	MV-11BH-01M	MV-11BH-01M	MV-11BH-01M		
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BH 3 3-2 @ 4'	BH3 3-3 @ 7.5'	BH 3 3-4 @ 10'	BH 4 4-2A @ 5'	BH 4 4-3A @ 7'	BH 4 4-3B @ 7' duplicate	BH 4 4-4A @ 9'	BH 5 5-1 @ 2.5'	BH 5 5-2 @ 5'	MV-11BH-01M-2	MV-11BH-01M-3	MV-11BH-01M-4		
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	
				16/Jul/98	8072728	NEXT	1.2	7.3	7.7	7.5	9.3	6.8	7.2	6.8	7.6	7.6	7.2	7.3	7.2		
				16/Jul/98	8072728	NEXT	2.3	5350	1140	25700	7580	3820	8150	27300	8750	11000	-	-	-		
				16/Jul/98	8072728	NEXT	3	4520	<10	<10	<10	<10	<10	<10	<10	<10	0.52	1.65	0.61		
				16/Jul/98	8072728	NEXT	1.5	<10	<10	<10	<10	<10	15.35	<10	<10	<10	5.9	4.2	5.5		
				16/Jul/98	8072728	NEXT	2.1	207	69	172	45	57	34	173	42	44	99.1	123.0	101.0		
				16/Jul/98	8072728	NEXT	2.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.34	0.18	0.31		
				16/Jul/98	8072728	NEXT	2.7	16	22	11	3	11	35	9	2	3	0.3	13.7	1.2		
				16/Jul/98	8072728	NEXT	2.7	60.7	<0.3	<0.3	<0.3	0.5	1.0	<0.3	<0.3	<0.3	0.40	0.39	0.30		
				16/Jul/98	8072728	NEXT	2.7	42400	251000	6800	8050	423	11800	4120	7290	7190	-	-	-		
				16/Jul/98	8072728	NEXT	2.7	42500	1520	1879	128	391	26500	121	52	30	38	31	38		
				16/Jul/98	8072728	NEXT	2.7	<1	<1	<1	5	<1	<1	10	4	4	12.3	6.6	11.0		
				16/Jul/98	8072728	NEXT	2.7	124	14	33	13	1240	657	25	18	18	32.7	30.2	30.3		
				16/Jul/98	8072728	NEXT	2.7	19400	2610	29400	13300	5290	9300	28600	9080	14000	-	-	-		
				16/Jul/98	8072728	NEXT	2.7	<30	35	<30	<30	224	<30	<30	<30	<30	6.02	33.60	8.55		
				16/Jul/98	8072728	NEXT	2.7	2860	2180	7980	4800	2150	3230	8320	3460	4340	-	-	-		
				16/Jul/98	8072728	NEXT	2.7	19000	172	99.6	219	205	108	203	233	176	234	-	-	-	
				16/Jul/98	8072728	NEXT	2.7	50	150	0.18	0.03	0.06	0.12	0.14	0.05	0.02	0.04	0.12	0.06		
				16/Jul/98	8072728	NEXT	2.7	40	40	<4	<4	<4	<4	<4	<4	<4	1.14	1.03	0.84		
				16/Jul/98	8072728	NEXT	2.7	50	500	18	3	41	21	11	22	37	45.8	36.5	38.4		
				16/Jul/98	8072728	NEXT	2.7	2.9	10	<3	<3	<3	<3	<3	<3	<3	0.6	0.3	0.5		
				16/Jul/98	8072728	NEXT	2.7	40	40	<2	<2	<2	<2	<2	<2	<2	0.10	0.10	0.09		
				16/Jul/98	8072728	NEXT	2.7	-	-	952	1560	1240	249	556	791	2160	232	244	-		
				16/Jul/98	8072728	NEXT	2.7	-	-	-	-	-	-	-	-	-	-	-	-		
				16/Jul/98	8072728	NEXT	2.7	-	-	-	-	-	-	-	-	-	-	-	-		
				16/Jul/98	8072728	NEXT	2.7	100000	147	410	38	24	20	48	43	22	22	22	-		
				16/Jul/98	8072728	NEXT	2.7	1	-	-	-	-	-	-	-	-	-	-	-		
				16/Jul/98	8072728	NEXT	2.7	300	300	38	<5	<5	<5	<5	<5	<5	0.11	0.06	0.10		
				16/Jul/98	8072728	NEXT	2.7	-	-	303	32	480	429	371	551	433	244	497	-		
				16/Jul/98	8072728	NEXT	2.7	300	200	-	-	-	-	-	-	-	0.68	0.67	0.73		
				16/Jul/98	8072728	NEXT	2.7	130	-	36	4	60	30	18	41	64	16	33	48		
				16/Jul/98	8072728	NEXT	2.7	360	150 to 600	385	80	65	33	136	390	62	38	33	67	111	71

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	MV-11BH-02M	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M	MV-11BH-03M	MV-11BH-03M
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	MV-11BH-02M-3	MV-11BH-02M-4	MV-11BH-02M-5	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-03M-5	MV-11BH-03M-5
Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL	BC CSR IL
				17/Dec/11	11V560614	Franz	2-3	6.2	6.4	6.4	6.2	6.3	6.1	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	6.2	6.4	6.4	6.2	6.3	6.1	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	0.47	0.28	0.79	0.29	0.55	0.65	
				17/Dec/11	11V560614	Franz	3-4	4.9	3.1	7.6	4.0	5.1	9.3	
				17/Dec/11	11V560614	Franz	4.5-5	83.3	75.1	87.6	53.1	125.0	150.0	
				17/Dec/11	11V560614	Franz	2-3	0.29	0.21	0.29	0.17	0.40	0.53	
				17/Dec/11	11V560614	Franz	3-4	0.1	<0.1	0.6	0.2	0.5	0.4	
				17/Dec/11	11V560614	Franz	4.5-5	0.27	0.14	0.40	0.16	0.26	0.28	
				17/Dec/11	11V560614	Franz	2-3	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	34	28	885	44	50	47	
				17/Dec/11	11V560614	Franz	3-4	10.6	7.7	10.5	6.4	15.7	11.8	
				17/Dec/11	11V560614	Franz	4.5-5	25.4	15.8	30.0	18.9	37.9	42.4	
				17/Dec/11	11V560614	Franz	2-3	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	4.85	2.74	12.20	5.72	7.24	8.25	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	3-4	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	0.04	0.02	0.11	0.03	0.05	0.06	
				17/Dec/11	11V560614	Franz	3-4	1.00	0.49	0.59	0.38	0.82	2.60	
				17/Dec/11	11V560614	Franz	4.5-5	39.3	32.1	35.9	23.7	47.0	39.3	
				17/Dec/11	11V560614	Franz	2-3	0.7	0.3	0.4	0.2	0.7	0.8	
				17/Dec/11	11V560614	Franz	3-4	0.08	<0.05	0.07	<0.05	0.11	0.13	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	
				17/Dec/11	11V560614	Franz	2-3	-	-	6	3	-	-	
				17/Dec/11	11V560614	Franz	3-4	-	-	13000	8000	-	-	
				17/Dec/11	11V560614	Franz	4.5-5	-	-	-	-	-	-	

Table 7
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	1,2,26,27	1,2,26,27	2	2	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2		
Station ID		LI14	LI14	LI15	LI15	LI15	LI16	LI16	LI17	LI17	LI17	LI18	2-BH1	2-BH1	2-BH1	2-BH1	2-BH1	2-BH1	2-BH10	2-BH11	2-BH11	
Field label		14-Jan	14-Feb	15-Jan	15-Feb	LI 15-3	16-Feb	16-Mar	17-Jan	17-Feb	17-Mar	18-Jan	BH1-2A	BH1-2B	BH1-2B-dup	BH1-3A	BH1-3B-dup	BH1-4A	BH10-5	BH11-3	BH11-4	
Duplicate ID																						
Date		21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98
Lab report ID		1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1998-soil, NEXT	KT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998
Consultants		SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)		0.2 - 1.5	2.5 - 2.8	0.2 - 1.5	2.2 - 2.4	2.4 - 3.3	2.2 - 2.4	2.4 - 3.3	0.75 - 1.5	2.3 - 2.4	2.3 - 2.4	0.6 - 0.9	1.1	1.1	1.1	1.8	1.8	2.4	3.8	2.3	3	
Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	20	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	15	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Barium	400	-	-	-	-	-	-	-	-	-	-	-	44	41	41	54	33	145	103	92	79	79
Beryllium	4	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	1.5	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	*	*	0.5	<0.3	<0.3	<0.3	<0.3
Calcium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride ion - Wet Soluble (ug/g)	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride ion - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	60	31.6	31.3	36.3	17600	323	4130	135	625	410	106	117	*	1380	*	*	*	*	*	34	*	*
Cobalt	50	-	-	-	-	-	-	-	-	-	-	-	3	<1	<1	3	8	10	11	8	9	9
Copper	90	-	-	-	-	-	-	-	-	-	-	-	10	11	11	35	54	33	28	18	18	18
Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	100	-	-	-	-	-	-	-	-	-	-	-	<30	55	55	589	556	<30	<30	<30	<30	<30
Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	15	-	-	-	-	-	-	-	-	-	-	-	0.08	0.33	0.33	0.28	0.18	0.05	0.04	0.02	0.02	0.02
Molybdenum	10	-	-	-	-	-	-	-	-	-	-	-	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel	100	-	-	-	-	-	-	-	-	-	-	-	11	9	9	49	48	32	49	35	40	40
Selenium	3	-	-	-	-	-	-	-	-	-	-	-	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Silver	20	-	-	-	-	-	-	-	-	-	-	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	50	-	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	88	43	<5	<5	<5	<5	<5
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	200	-	-	-	-	-	-	-	-	-	-	-	16	13	13	35	17	61	36	35	35	35
Zinc	150	-	-	-	-	-	-	-	-	-	-	-	61	132	132	*	*	167	61	44	69	69

Notes
All units in ug/g, unless otherwise noted.
* indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 7
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Station ID		2-BH11	2-BH12	2-BH12	2-BH12	2-BH13	2-BH13	2-BH13	2-BH14	2-BH15	2-BH16	2-BH17	2-BH18	2-BH19	2-BH2	2-BH23	2-BH24	2-BH27	2-BH28	2-BH28	2-BH28
Field label		BH11-5	BH12-4	BH12-5	BH12-6	BH13-2	BH13-3	BH13-4	BH14-4	BH15-4	BH16-3	BH17-1	BH18-5	BH19-4A	BH2-2A	BH23-2	BH24-3	BH27-5	BH28-3	BH28-5	BH28-6
Duplicate ID																					
Date		15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98
Lab report ID		XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)		3.7	3	3.8	4.6	1.5	2.4	3	2.7	3	2.3	0.8	3.4	2.7	1.1	1.5	2.3	3.8	2.3	3.7	4.6
Aluminum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	20	<10	<10	<10	<10	<10	<10	<10	*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Arsenic	15	<10	<10	<10	<10	<10	<10	<10	*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Barium	400	143	60	92	144	88	98	98	141	60	127	259	41	122	29	94	147	106	57	69	129
Beryllium	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	1.5	0.4	<0.3	<0.3	0.5	<0.3	*	*	4.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Calcium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride ion - Wet Soluble (ug/g)	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride ion - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	60	*	33	*	*	38	*	*	*	55	51	53	21	*	*	34	33	*	31	*	*
Cobalt	50	11	7	8	20	9	<1	11	<1	8	13	8	4	12	<1	9	8	9	7	10	14
Copper	90	38	15	40	53	19	127	68	59	15	35	53	7	31	16	27	46	34	16	41	39
Iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	100	<30	<30	66	<30	<30	572	51	<30	<30	<30	34	<30	<30	<30	<30	<30	<30	<30	<30	<30
Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	15	0.21	0.02	0.064	0.04	0.02	0.48	0.12	1.35	0.02	0.05	0.03	0.02	0.05	0.05	0.04	0.03	0.07	0.02	0.13	0.05
Molybdenum	10	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel	100	44	33	31	73	38	44	52	25	35	53	30	18	50	5	32	30	39	33	46	45
Selenium	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Silver	20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	50	<5	<5	<5	<5	<5	9	17	12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Titanium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	200	57	37	35	67	42	30	53	121	39	54	39	13	38	7	21	30	42	36	42	55
Zinc	150	140	38	134	108	46	489	*	545	43	68	151	23	68	109	56	52	76	37	65	66

Notes
All units in ug/g, unless otherwise noted.
"-" indicates that there is no applicable standard
Red cells indicates parameter exceeds BC CS

Table 7
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	2	2	2	2	2	2	2	2	2	1	1	
Station ID		2-BH29	2-BH29	2-BH29	2-BH3	2-BH5	2-BH6	2-BH8	2-BH9	4-BH1	4-BH2	4-BH3	4-BH3	4-BH3	4-BH4	4-BH4
Field label		BH29-4	BH29-5	BH29-6	BH3-3A	BH5-4	BH6-5	BH8-3	BH9-4	BH1 1-2 @ 5'	BH 2 2-3@7.5'	BH 3 3-2 @ 4'	BH3 3-3 @ 7.5'	BH 3 3-4 @ 10'	BH 4 4-2A @ 5'	BH 4 4-3A @ 7'
Duplicate ID																BH 4 4-3B @ 7' duplic
Date		16/Jul/98	16/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98
Lab report ID		XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	8072728	8072728	8072728	8072728	8072728	8072728	8072728
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)		3	3.5	4.3	1.5	3	3.7	2.3	3	1.5	2.3	1.2	2.3	3	1.5	2.1
Aluminum	-	-	-	-	-	-	-	-	-	31700	10500	5350	1140	25700	7580	3820
Antimony	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	4520	<10	<10	<10	<10
Arsenic	15	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Barium	400	88	132	103	33	79	126	111	116	172	73	207	69	172	45	57
Beryllium	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron	-	-	-	-	-	-	-	-	-	10	4	16	22	11	3	11
Cadmium	1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1.4	1	<0.3	60.7	<0.3	<0.3	<0.3	0.5
Calcium	-	-	-	-	-	-	-	-	-	9540	8910	42400	251000	6800	8050	423
Chloride ion - Wet Soluble (ug/g)	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride ion - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	60	35	*	*	30	41	*	48	*	74	46	42500	1520	1879	128	391
Cobalt	50	9	14	13	6	8	12	12	7	12	9	<1	<1	<1	5	<1
Copper	90	24	41	53	10	17	30	31	54	65	20	124	14	33	13	1240
Iron	-	-	-	-	-	-	-	-	-	31900	20500	19400	2610	29400	13300	5290
Lead	100	<30	<30	<30	<30	<30	<30	<30	103	216	<30	<30	35	<30	<30	224
Magnesium	-	-	-	-	-	-	-	-	-	10500	8620	2860	2180	7980	4800	2150
Manganese	-	-	-	-	-	-	-	-	-	556	408	172	99.6	219	205	108
Mercury	15	0.03	0.06	0.07	0.01	0.02	0.03	0.03	0.09	0.13	0.04	0.18	0.03	0.06	0.02	0.12
Molybdenum	10	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel	100	40	56	43	22	34	41	45	29	46	37	18	3	41	21	11
Selenium	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Silver	20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Sodium	-	-	-	-	-	-	-	-	-	840	363	952	1560	1240	249	556
Sodium - Wet Soluble	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	-	-	-	-	-	-	-	-	62	34	147	410	38	24	20
Sulphide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	50	<5	<5	<5	<5	<5	<5	<5	6	5	<5	38	<5	<5	<5	67
Titanium	-	-	-	-	-	-	-	-	-	1140	465	303	32	480	429	371
Uranium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	200	40	57	49	27	39	57	54	37	78	43	36	4	60	30	18
Zinc	150	47	82	93	42	41	126	64	*	226	48	385	80	65	33	136

Notes
All units in ug/g, unless otherwise noted.
"-" indicates that there is no applicable standard
Red cells indicates parameter exceeds BC CS

Table 7
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	1	1	1	1	2	2	2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID		4-BH4	4-BH4	4-BH5	4-BH5	MV-11BH-01M	MV-11BH-01M	MV-11BH-01M	MV-11BH-02M	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	V-11BH-03M	V-11BH-03M
Field label	4 4-3B @ 7' duplid	BH 4 4-4A @ 9'	BH 5 5-1 @ 2.5'	BH 5 5-2 @ 5'	MV-11BH-01M-2	MV-11BH-01M-3	MV-11BH-01M-4	MV-11BH-02M-3	MV-11BH-02M-4	MV-11BH-02M-5	MV-11BH-03M-3	V-11BH-03M-3	V-11BH-03M-3	V-11BH-03M-3
Duplicate ID	BH 4 4-3A @ 7'													
Date	16/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	16/Dec/11	16/Dec/11	16/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID	8072728	8072728	8072728	8072728	11V560293	11V560293	11V560293	11V560614	11V560614	11V560614	11V560614	11V560614	11V560614	11V560614
Consultants	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)	2.1	2.7	0.8	1.5	2-3	3-4	4.5-5	2-3	3-4	4.5-5	2-3	3-4	4.5-5	
Aluminum	-	8150	27300	8750	11000	-	-	-	-	-	-	-	-	-
Antimony	20	3260	<10	<10	<10	0.52	1.65	0.61	0.47	0.28	0.79	0.29	0.55	0.65
Arsenic	15	15.35	<10	<10	<10	5.9	4.2	5.5	4.9	3.1	7.6	4.0	5.1	9.3
Barium	400	34	173	42	44	99.1	123.0	101.0	83.3	75.1	87.6	53.1	125.0	150.0
Beryllium	4	<1	<1	<1	<1	0.34	0.18	0.31	0.29	0.21	0.29	0.17	0.40	0.53
Boron	-	35	9	2	3	0.3	13.7	1.2	0.1	<0.1	0.6	0.2	0.5	0.4
Cadmium	1.5	1.0	<0.3	<0.3	<0.3	0.40	0.39	0.30	0.27	0.14	0.40	0.16	0.26	0.28
Calcium	-	11800	4120	7290	7190	-	-	-	-	-	-	-	-	-
Chloride ion - Wet Soluble (ug/g)	35	-	-	-	-	-	-	-	-	-	45	4	-	-
Chloride ion - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	101000	11000	-	-
Chromium	60	26500	121	52	30	38	31	38	34	28	885	44	50	47
Cobalt	50	<1	10	4	4	12.3	6.6	11.0	10.6	7.7	10.5	6.4	15.7	11.8
Copper	90	657	25	18	18	32.7	30.2	30.3	25.4	15.8	30.0	18.9	37.9	42.4
Iron	-	9300	28600	9080	14000	-	-	-	-	-	-	-	-	-
Lead	100	<30	<30	<30	<30	6.02	33.60	8.55	4.85	2.74	12.20	5.72	7.24	8.25
Magnesium	-	3230	8320	3460	4340	-	-	-	-	-	-	-	-	-
Manganese	-	203	233	176	234	-	-	-	-	-	-	-	-	-
Mercury	15	0.14	0.05	0.02	0.02	0.04	0.12	0.06	0.04	0.02	0.11	0.03	0.05	0.06
Molybdenum	10	<4	<4	<4	<4	1.14	1.03	0.84	1.00	0.49	0.59	0.38	0.82	2.60
Nickel	100	22	37	11	12	45.8	36.5	38.4	39.3	32.1	35.9	23.7	47.0	39.3
Selenium	3	<3	<3	<3	<3	0.6	0.3	0.5	0.7	0.3	0.4	0.2	0.7	0.8
Silver	20	<2	<2	<2	<2	0.10	0.10	0.09	0.08	<0.05	0.07	<0.05	0.11	0.13
Sodium	-	791	2160	232	244	-	-	-	-	-	-	-	-	-
Sodium - Wet Soluble	200	-	-	-	-	-	-	-	-	-	6	3	-	-
Sodium - Wet Soluble (ug/L)	-	-	-	-	-	-	-	-	-	-	13000	8000	-	-
Strontium	-	48	43	22	22	-	-	-	-	-	-	-	-	-
Sulphide	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	-	-	-	-	-	0.11	0.06	0.10	0.08	0.06	0.09	0.06	0.12	0.14
Tin	50	49	<5	<5	<5	0.52	4.77	0.93	0.60	0.62	6.51	1.16	0.96	0.94
Titanium	-	551	433	244	497	-	-	-	-	-	-	-	-	-
Uranium	-	-	-	-	-	0.68	0.67	0.73	0.61	0.33	0.63	0.36	0.87	1.80
Vanadium	200	41	64	16	33	48	31	49	44	33	45	35	59	64
Zinc	150	390	62	38	33	67	111	71	55	40	66	38	69	72

Notes
All units in ug/g, unless otherwise noted.
"-" indicates that there is no applicable standar
Red cells indicates parameter exceeds BC CS

Table 8
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	2	2	1	2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID			LI15	LI16	LI17	LI18	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M
Field label			15-Feb	16-Feb	17-Feb	LI 18-1	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4
Duplicate ID										
Date			21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID			1675-K	1675-K	1675-K	1675-K	11V560614	11V560614	11V560614	11V560614
Consultants			SRK	SRK	SRK	SRK	Franz	Franz	Franz	Franz
Depth (m)			2.2 – 2.4	2.2 – 2.4	2.3 – 2.4	0.6 – 1.2	4.5 – 5	5 – 6	2 – 3	3 – 4
Grain Type			coarse	coarse	coarse	coarse	coarse	coarse	coarse	fine
Acenaphthene			0.28	-	<0.05	<0.1	<0.05	<0.05	0.01	0.25
Acenaphthylene	320	-	<0.05	<0.1	<0.05	<0.05	<0.01	0.41	0.01	<0.01
Anthracene	32	-	<0.05	<0.1	<0.05	<0.05	0.02	0.55	<0.02	<0.02
Benzo[a]anthracene	10	10	<0.05	<0.1	<0.05	<0.05	<0.02	2.83	<0.02	<0.02
Benzo[a]pyrene	72	10	<0.05	<0.1	<0.05	<0.05	<0.05	3.00	<0.05	<0.05
Benzo[b]fluoranthene	10	10	<0.05	<0.1	<0.05	0.09	<0.02	1.70	<0.02	<0.02
Benzo[ghi]perylene	-	-	<0.05	<0.1	<0.05	0.07	<0.05	1.50	<0.05	<0.05
Benzo[k]fluoranthene	10	10	<0.05	-	<0.05	-	<0.02	1.20	<0.02	<0.02
Chrysene	-	-	<0.05	<0.1	<0.05	0.05	<0.05	2.77	<0.05	<0.05
Dibenzo[a,h]anthracene	10	10	<0.05	<0.1	<0.05	<0.05	<0.02	0.49	<0.02	<0.02
Fluoranthene	180	-	0.05	0.2	<0.05	0.15	0.05	3.98	0.05	<0.05
Fluorene	0.25	-	<0.05	<0.1	<0.05	<0.05	0.02	0.22	<0.02	<0.02
High molecular weight PAHs	-	-	-	-	-	0.88	-	-	-	-
Indeno[1,2,3-cd]pyrene	10	10	0.06	<0.1	<0.05	0.06	<0.02	1.40	<0.02	<0.02
Low molecular weight PAHs	-	-	0.21	0.3	0.07	0.32	-	-	-	-
2-Methylnaphthalene	-	-	-	-	-	-	0.01	0.22	0.01	<0.01
Naphthalene	0.013	50	0.12	0.10	0.07	0.17	0.05	0.45	0.03	0.01
Phenanthrene	0.046	50	0.09	0.20	<0.05	0.15	0.09	1.08	0.04	0.02
Pyrene	100	100	0.05	0.2	<0.05	0.46	0.05	4.62	0.03	0.02
Total PAHs	-	-	-	-	-	1.2	-	-	-	-
Total PAHs IACR (Calculated) - Calculated	1	-	0.754	1.73	0.727	1.12	0.569	39.00	0.569	0.569
Total PAHs TEQ (calculated) - Calculated	5.3	-	0.212	0.23	0.211	0.121	0.115	4.246	0.115	0.115

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 14-November-2012)

Bold indicates parameter exceeds BC CSR IL. (Current as of 14-November-2012)

Table 9
Soil Analytical Results Compared to CSR Schedule 7 - PAHs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	1	2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	
Station ID		LI15	LI16	LI17	LI18	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M	
Field label		15-Feb	16-Feb	17-Feb	LI 18-1	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4	
Duplicate ID										
Date		21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	
Lab report ID		1675-K	1675-K	1675-K	1675-K	11V560614	11V560614	11V560614	11V560614	
Consultants		SRK	SRK	SRK	SRK	Franz	Franz	Franz	Franz	
Depth (m)		2.2 – 2.4	2.2 – 2.4	2.3 – 2.4	0.6 – 1.2	4.5 – 5	5 – 6	2 – 3	3 – 4	
Acenaphthene		-	<0.05	<0.1	<0.05	<0.05	0.01	0.25	<0.01	<0.01
Acenaphthylene		-	<0.05	<0.1	<0.05	<0.05	<0.01	0.41	0.01	<0.01
Anthracene	-	<0.05	<0.1	<0.05	<0.05	0.02	0.55	<0.02	<0.02	
Benzo[a]anthracene	1	<0.05	<0.1	<0.05	<0.05	<0.02	2.83	<0.02	<0.02	
Benzo[a]pyrene	1	<0.05	<0.1	<0.05	<0.05	<0.05	3.00	<0.05	<0.05	
Benzo[b]fluoranthene	1	<0.05	<0.1	<0.05	0.09	<0.02	1.70	<0.02	<0.02	
Benzo[ghi]perylene	-	<0.05	<0.1	<0.05	0.07	<0.05	1.50	<0.05	<0.05	
Benzo[k]fluoranthene	1	<0.05	-	<0.05	-	<0.02	1.20	<0.02	<0.02	
Chrysene	-	<0.05	<0.1	<0.05	0.05	<0.05	2.77	<0.05	<0.05	
Dibenzo[a,h]anthracene	1	<0.05	<0.1	<0.05	<0.05	<0.02	0.49	<0.02	<0.02	
Fluoranthene	-	0.05	0.2	<0.05	0.15	0.05	3.98	0.05	<0.05	
Fluorene	-	<0.05	<0.1	<0.05	<0.05	0.02	0.22	<0.02	<0.02	
High molecular weight PAHs	-	-	-	-	0.88	-	-	-	-	
Indeno[1,2,3-cd]pyrene	1	0.06	<0.1	<0.05	0.06	<0.02	1.40	<0.02	<0.02	
Low molecular weight PAHs	-	0.21	0.3	0.07	0.32	-	-	-	-	
2-Methylnaphthalene	-	-	-	-	-	0.01	0.22	0.01	<0.01	
Naphthalene	5	0.12	0.1	0.07	0.17	0.05	0.45	0.03	0.01	
Phenanthrene	5	0.09	0.2	<0.05	0.15	0.09	1.08	0.04	0.02	
Pyrene	10	0.05	0.2	<0.05	0.46	0.05	4.62	0.03	0.02	
Total PAHs	-	-	-	-	1.2	-	-	-	-	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 10
Soil Analytical Results - Petroleum Hydrocarbons
Lots 2 and 4, Surrey-Brownsville Site

Area ID					2	2	2	2	2	2	2	2	
Station ID					2-BH1	2-BH1	2-BH11	2-BH16	2-BH2	2-BH27	2-BH7	2-BH8	2-BH9
Field label					BH1-3A	BH1-3B-dup	BH11-3	BH16-3	BH2-1A	BH27-3	BH7-3	BH8-3	BH9-3
Duplicate ID					BH1-3B-dup	BH1-3A							
Date					15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98
Lab report ID					J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil
Consultants					NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)					1.8	1.8	2.3	2.3	0.5	2.3	2.4	2.3	2.3
Grain Type					coarse	coarse	coarse	coarse	coarse	coarse	fine	coarse	coarse
LEPH	-	-	-	-	2000	-	-	-	-	-	-	-	-
HEPH	-	-	-	-	5000	-	-	-	-	-	-	-	-
VPH (VH6-10) minus BTEX	-	-	-	-	200	<10	<10	<10	<10	<10	<10	<10	<10
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (C6-C10) minus BTEX	170	240	170	240	-	-	-	-	-	-	-	-	-
F2 (C10-C16)	230	260	230	320	-	-	-	-	-	-	-	-	-
F3 (C16-C34)	2500	1700	5000	3500	-	-	-	-	-	-	-	-	-
F4 (C34-C50)	6600	3300	10000	10000	-	-	-	-	-	-	-	-	-

Area ID					2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID					4-BH3	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M
Field label					BH3 3-3 @ 7.5'	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3
Duplicate ID								
Date					16/Jul/98	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID					8072728	11V560614	11V560614	11V560614
Consultants					NEXT	Franz	Franz	Franz
Depth (m)					2.3	4.5 – 5	5 – 6	2 – 3
Grain Type					coarse	coarse	coarse	coarse
LEPH	-	-	-	-	2000	-	<25	<25
HEPH	-	-	-	-	5000	-	182	120
VPH (VH6-10) minus BTEX	-	-	-	-	200	<10	<10	<10
F1 (C6-C10)	-	-	-	-	-	<10	<10	<10
F1 (C6-C10) minus BTEX	170	240	170	240	-	<10	<10	<10
F2 (C10-C16)	230	260	230	320	-	<10	<10	16
F3 (C16-C34)	2500	1700	5000	3500	-	186	62	<10
F4 (C34-C50)	6600	3300	10000	10000	-	115	70	156

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL (Fine, Surface). (Current as of 14-November-2012)
Bold indicates parameter exceeds CCME IL (Coarse, Surface). (Current as of 14-November-2012)
Underline indicates parameter exceeds CCME IL (Fine, Subsoil). (Current as of 14-November-2012)
Italic indicates parameter exceeds CCME IL (Coarse, Subsoil). (Current as of 14-November-2012)
 Italic and dark blue text indicates parameter exceeds BC CSR IL (STRINGENT). (Current as of 14-November-2012)

Table 11
Soil Analytical Results Compared to CSR Schedule 7 - Petroleum Hydrocarbons
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	2	2	2	2	2	2	2	
Station ID		2-BH1	2-BH1	2-BH11	2-BH16	2-BH2	2-BH27	2-BH7	2-BH8	2-BH9	4-BH3	
Field label		BH1-3A	BH1-3B-dup	BH11-3	BH16-3	BH2-1A	BH27-3	BH7-3	BH8-3	BH9-3	BH3 3-3 @ 7.5'	
Duplicate ID		BH1-3B-dup	BH1-3A									
Date		15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	
Lab report ID		J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	8072728
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	
Depth (m)		1.8	1.8	2.3	2.3	0.5	2.3	2.4	2.3	2.3	2.3	
HEPH		1000	-	-	-	-	-	-	-	-	-	
LEPH		1000	-	-	-	-	-	-	-	-	-	
VPH (VH6-10) minus BTEX	200	<10	<10	<10	<10	<10	<10	<10	<10	<10		
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-		
F1 (C6-C10) minus BTEX	-	-	-	-	-	-	-	-	-	-		
F2 (C10-C16)	-	-	-	-	-	-	-	-	-	-		
F3 (C16-C34)	-	-	-	-	-	-	-	-	-	-		
F4 (C34-C50)	-	-	-	-	-	-	-	-	-	-		

Area ID	BC CSR IL (Relocation to Non-Ag)	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	
Station ID		MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M	
Field label		MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4	
Duplicate ID						
Date		17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	
Lab report ID		11V560614	11V560614	11V560614	11V560614	
Consultants		Franz	Franz	Franz	Franz	
Depth (m)		4.5 - 5	5 - 6	2 - 3	3 - 4	
HEPH		1000	182	120	26	<25
LEPH		1000	<25	<25	<25	<25
VPH (VH6-10) minus BTEX	200	<10	<10	<10	<10	
F1 (C6-C10)	-	<10	<10	<10	<10	
F1 (C6-C10) minus BTEX	-	<10	<10	<10	<10	
F2 (C10-C16)	-	<10	<10	16	33	
F3 (C16-C34)	-	186	62	<10	<10	
F4 (C34-C50)	-	115	70	156	<10	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 12
Soil Analytical Results - Phenol/Chlorophenols
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME IL (Fine, Surface)	BC CSR IL (STRINGENT)	2	2	2	2	2	2	2	1	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	
Station ID			2-BH1	2-BH1	2-BH1	2-BH2	2-BH3	2-BH4	4-BH1	4-BH3	4-BH4	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M
Field label			BH1-2A	BH1-2B	BH1-2B-dup	BH2-2A	BH3-2A	BH4-1	BH1 1-1 @ 1.5'	BH 3 3-2 @ 4'	BH 4 4-1A @ 2.5'	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4
Duplicate ID				BH1-2B-dup	BH1-2B										
Date			15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID			1998-soil_NEXT_KT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	XT_CanTest-1998	8072728	8072728	8072728	11V560614	11V560614	11V560614	11V560614
Consultants			NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz
Depth (m)			1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.2	0.8	4.5 – 5	5 – 6	2 – 3	3 – 4
pH	6 to 8	-	5.6	-	5.3	7.5	6.4	6.0	5.6	7.3	7.3	6.4	-	6.2	6.3
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	5	5	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002
o-Cresol	-	10	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
m+p-Cresol	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	5	5	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002
2,6-Dichlorophenol	5	5	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	10	10	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrophenol	10	10	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Dinoseb	-	620	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-Methyl 4,6-dinitrophenol	10	10	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	10	10	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
4-Nitrophenol	10	10	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	7.6	0.15 to 50	<0.005	0.07	0.07	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
Phenol	3.8	10	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002
2,3,4,5-Tetrachlorophenol	5	5	<0.005	0.01	0.01	<0.005	<0.005	<0.005	<0.005	0.13	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	5	5	<0.005	0.03	0.03	0.01	<0.005	<0.005	<0.005	0.35	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	5	5	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4,6-Tribromophenol	-	-	-	-	-	-	-	-	97	77	110	-	-	-	-
2,3,4-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	5	5	<0.01	0.04	0.04	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.14	<0.01	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	5	5	<0.01	0.02	0.02	<0.01	0.03	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005

Notes

All units in ug/g, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 14-November-2012)

Bold indicates parameter exceeds BC CSR IL. (Current as of 14-November-2012)

Table 13
Soil Analytical Results Compared to CSR Schedule 7 - Phenols/Chlorophenols
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	2	2	2	2	2	1	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID		2-BH1	2-BH1	2-BH1	2-BH2	2-BH3	2-BH4	4-BH1	4-BH3	4-BH4	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M
Field label		BH1-2A	BH1-2B	BH1-2B-dup	BH2-2A	BH3-2A	BH4-1	BH1 1-1 @1.5'	BH 3 3-2 @ 4'	BH 4 4-1A @ 2.5'	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4
Duplicate ID			BH1-2B-dup	BH1-2B										
Date		15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Jul/98	16/Jul/98	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID		1998-soil, NEXT	KT CanTest-1998	XT CanTest-1998	XT CanTest-1998	XT CanTest-1998	XT CanTest-1998	8072728	8072728	8072728	11V560614	11V560614	11V560614	11V560614
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz
Depth (m)		1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.2	0.8	4.5 – 5	5 – 6	2 – 3	3 – 4
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	0.5	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002
o-Cresol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
m+p-Cresol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	0.5	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002
2,6-Dichlorophenol	0.5	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrophenol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Dinoseb	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-Methyl 4,6-dinitrophenol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
4-Nitrophenol	1	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	0.15	<0.005	0.07	0.07	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
Phenol	1	-	-	-	-	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002
2,3,4,5-Tetrachlorophenol	0.5	<0.005	0.01	0.01	<0.005	<0.005	<0.005	<0.005	0.13	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	0.5	<0.005	0.03	0.03	0.01	<0.005	<0.005	<0.005	0.35	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	0.5	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005
2,4,6-Tribromophenol	-	-	-	-	-	-	-	97	77	110	-	-	-	-
2,3,4-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	0.5	<0.01	0.04	0.04	<0.01	0.01	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.14	<0.01	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	0.5	<0.01	0.02	0.02	<0.01	0.03	<0.01	<0.01	<0.1	<0.01	<0.005	<0.005	<0.005	<0.005

Notes

All units in ug/g, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 14
Soil Analytical Results - Volatile Organic Compounds
Lots 2 and 4, Surrey-Brownsville Site

Area ID			2	2	2	2	2	2	2	2	2	2	2	
Station ID	CCME IL	BC CSR IL	LI15	2-BH1	2-BH1	2-BH11	2-BH16	2-BH2	2-BH27	2-BH7	2-BH8	2-BH9	4-BH3	MV-11BH-01M
Field label			LI 15-3	BH1-3A	BH1-3B-dup	BH1-3A	BH11-3	BH16-3	BH2-1A	BH27-3	BH7-3	BH8-3	BH9-3	BH3 3-3 @ 7.5'
Duplicate ID				BH1-3B-dup	BH1-3A									
Date			21/Mar/94	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	16/Dec/11
Lab report ID			1675-K	XT_CanTest-1998	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	8072728	11V560293
Consultants			SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz
Depth (m)			2.4 - 3.3	1.8	1.8	2.3	2.3	0.5	2.3	2.4	2.3	2.3	2.3	4.5 - 5
Acetone	-	54000	-	-	-	-	-	-	-	-	-	-	-	<0.5
Bromodichloromethane	-	18	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Bromoform	-	2200	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Bromomethane	-	13	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.05
Carbon tetrachloride	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.025
Chlorobenzene	10	10	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Chlorodibromomethane	-	26	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Chloroethane	-	65	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
Chloroform	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Chloromethane	-	180	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.05
Dibromomethane	-	230	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
1,2-Dichlorobenzene	10	10	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
1,3-Dichlorobenzene	10	10	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
1,4-Dichlorobenzene	10	10	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Dichlorodifluoromethane	-	310	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
1,1-Dichloroethane	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
1,2-Dichloroethane	50	50	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
1,1-Dichloroethene	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
cis-1,2-Dichloroethene	-	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
trans-1,2-Dichloroethene	-	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Dichloromethane	50	50	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.05
1,2-Dichloropropane	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
cis-1,3-Dichloropropene	-	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
trans-1,3-Dichloropropene	-	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Ethylene dibromide	-	0.73	-	-	-	-	-	-	-	-	-	-	<0.01	<0.05
2-Hexanone	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Methyl ethyl ketone	-	110000	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl isobutyl ketone	-	47000	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5
Methyl tert-butyl ether	-	700	-	-	-	-	-	-	-	-	-	-	-	<0.05
1,1,1,2-Tetrachloroethane	-	73	-	-	-	-	-	-	-	-	-	-	-	<0.05
1,1,2,2-Tetrachloroethane	50	9.3	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Tetrachloroethene	0.6	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
1,2,4-Trichlorobenzene	10	10	-	-	-	-	-	-	-	-	-	-	-	<0.05
1,1,1-Trichloroethane	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
1,1,2-Trichloroethane	50	50	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Trichloroethene	0.01	0.015	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Trichlorofluoromethane	-	2000	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Trimethylbenzenes	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	-	7.5	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

Notes
All units in ug/g.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL. (Current as of 14-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 14-November-2012)

Table 14
Soil Analytical Results - Volatile Organic Compounds
Lots 2 and 4, Surrey-Brownsville Site

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	CCME IL	BC CSR IL	2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
										MV-11BH-01M	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M
										MV-Dup	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4
										MV-11BH-01M-4				
										16/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
										11V560293	11V560614	11V560614	11V560614	11V560614
										Franz	Franz	Franz	Franz	Franz
										4.5 - 5	4.5 - 5	5 - 6	2 - 3	3 - 4
Acetone	-	-	-	-	-	-	-	54000		<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	-	-	-	-	-	-	-	18		<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	-	-	-	-	-	-	-	2200		<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	-	-	-	-	-	-	-	13		<0.05	<0.05	<0.05	<0.05	<0.05
Carbon tetrachloride	50	50	-	-	-	-	-	50		<0.025	<0.025	<0.025	<0.025	<0.025
Chlorobenzene	10	10	-	-	-	-	-	10		<0.05	<0.05	<0.05	<0.05	<0.05
Chlorodibromomethane	-	-	-	-	-	-	-	26		<0.05	<0.05	<0.05	<0.05	<0.05
Chloroethane	-	-	-	-	-	-	-	65		<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
Chloromethane	-	-	-	-	-	-	-	160		<0.05	<0.05	<0.05	<0.05	<0.05
Dibromomethane	-	-	-	-	-	-	-	230		-	-	-	-	-
1,2-Dichlorobenzene	10	10	-	-	-	-	-	10		<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	10	10	-	-	-	-	-	10		<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	10	10	-	-	-	-	-	10		<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	-	-	-	-	-	-	-	310		-	-	-	-	-
1,1-Dichloroethane	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethene	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
Dichloromethane	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,3-Dichloropropene	-	-	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide	-	-	-	-	-	-	-	0.73		<0.05	<0.05	<0.05	<0.05	<0.05
2-Hexanone	-	-	-	-	-	-	-	-		-	-	-	-	-
Methyl ethyl ketone	-	-	-	-	-	-	-	110000		<0.5	<0.5	<0.5	<0.5	<0.5
Methyl isobutyl ketone	-	-	-	-	-	-	-	47000		<0.5	<0.5	<0.5	<0.5	<0.5
Methyl tert-butyl ether	-	-	-	-	-	-	-	700		<0.05	<0.1	<0.1	<0.1	<0.1
1,1,1,2-Tetrachloroethane	-	-	-	-	-	-	-	73		<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	50	9.3	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethene	0.6	5	-	-	-	-	-	5		<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	10	10	-	-	-	-	-	10		<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	50	50	-	-	-	-	-	50		<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethene	0.01	0.015	-	-	-	-	-	0.015		<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	-	-	-	-	-	-	-	2000		<0.05	<0.05	<0.05	<0.05	<0.05
Trimethylbenzenes	-	-	-	-	-	-	-	-		-	-	-	-	-
Vinyl chloride	-	-	-	-	-	-	-	7.5		<0.05	<0.05	<0.05	<0.05	<0.05

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 14-November-2012)

Bold indicates parameter exceeds BC CSR IL. (Current as of 14-November-2012)

Table 15
Soil Analytical Results Compared to CSR Schedule 7 - VOCs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	2	2	2	2	2	2	2	2	2	
Station ID		LI15	2-BH1	2-BH1	2-BH11	2-BH16	2-BH2	2-BH27	2-BH7	2-BH8	2-BH9			
Field label		LI 15-3	BH1-3A	BH1-3B-dup	BH11-3	BH16-3	BH2-1A	BH27-3	BH7-3	BH8-3	BH9-3			
Duplicate ID			BH1-3B-dup	BH1-3A										
Date		21/Mar/94	15/Jul/98	15/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	16/Jul/98	15/Jul/98	15/Jul/98	15/Jul/98			
Lab report ID		1675-K	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil	J-NEXT_CanTest-1998-soil			
Consultants		SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT			
Depth (m)		2.4 - 3.3	1.8	1.8	2.3	2.3	0.5	2.3	2.4	2.3	2.3			
Acetone		-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane		-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromoform	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bromomethane	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Carbon tetrachloride	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chlorobenzene	1	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chlorodibromomethane	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chloroethane	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Chloroform	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chloromethane	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Dibromomethane	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,2-Dichlorobenzene	1	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,3-Dichlorobenzene	1	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,4-Dichlorobenzene	1	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dichlorodifluoromethane	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
1,1-Dichloroethane	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,2-Dichloroethane	5	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
1,1-Dichloroethene	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
cis-1,2-Dichloroethene	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
trans-1,2-Dichloroethene	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dichloromethane	5	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
1,2-Dichloropropane	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
cis-1,3-Dichloropropene	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
trans-1,3-Dichloropropene	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Ethylene dibromide	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Hexanone	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Methyl ethyl ketone	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Methyl isobutyl ketone	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Methyl tert-butyl ether	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,1,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Tetrachloroethene	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,2,4-Trichlorobenzene	2	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,1,2-Trichloroethane	5	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Trichloroethene	0.015	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Trichlorofluoromethane	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Trimethylbenzenes	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	
Vinyl chloride	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 15
Soil Analytical Results Compared to CSR Schedule 7 - VOCs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	2	2	2	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID		4-BH3	MV-11BH-01M	MV-11BH-01M	MV-11BH-02M	MV-11BH-02M	MV-11BH-03M	MV-11BH-03M
Field label		BH3 3-3 @ 7.5'	MV-11BH-01M-4	MV-Dup	MV-11BH-02M-5	MV-11BH-02M-6	MV-11BH-03M-3	MV-11BH-03M-4
Duplicate ID			MV-Dup	MV-11BH-01M-4				
Date		16/Jul/98	16/Dec/11	16/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID		8072728	11V560293	11V560293	11V560614	11V560614	11V560614	11V560614
Consultants		NEXT	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		2.3	4.5 – 5	4.5 – 5	4.5 – 5	5 – 6	2 – 3	3 – 4
Acetone	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	-	<0.04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon tetrachloride	5	<0.01	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chlorobenzene	1	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorodibromomethane	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroethane	-	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloromethane	-	<0.04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromomethane	-	<0.01	-	-	-	-	-	-
1,2-Dichlorobenzene	1	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	1	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	1	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	-	<0.02	-	-	-	-	-	-
1,1-Dichloroethane	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	5	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethene	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethene	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,2-Dichloroethene	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloromethane	5	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,3-Dichloropropene	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropene	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-Hexanone	-	<0.5	-	-	-	-	-	-
Methyl ethyl ketone	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl isobutyl ketone	-	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl tert-butyl ether	-	-	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1
1,1,1,2-Tetrachloroethane	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethene	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethene	0.015	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	-	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trimethylbenzenes	-	-	-	-	-	-	-	-
Vinyl chloride	-	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 16
Groundwater Analytical Results - Anions
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	1, 2, 26, 27	1, 2, 26, 27			
Station ID				MV-11BH-01M	MV-11BH-03M	MV-11BH-03M			
Field label				MV-11BH-01M	MV-11BH-03M	MV-GWDUP2			
Duplicate ID					MV-GWDUP2	MV-11BH-03M			
Date				7/Feb/12	6/Feb/12	6/Feb/12			
Lab report ID				12V572681	12V572231	12V572231			
Consultants				Franz	Franz	Franz			
Screen depth (m)				4.27 – 5.79	2.13 – 3.66	2.13 – 3.66			
Chloride ion				230000	250000	250000	26600	8860	8960
Sulphide				2	50	20	<10	<10	-

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012

Bold indicates parameter exceeds Canadian DW Quality. (Current as of 15-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 16
Groundwater Analytical Results Within 10m of the High Water Mark - Anions
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME (AW-f/AW-m)	BC WQ Guidelines (approved and working)	2	2	1, 2, 26, 27		
Station ID			MW2-29	MW2-30	MV-11BH-02M		
Field label			MW2-29	MW2-30	MV-11BH-02M		
Duplicate ID							
Date			7/Feb/12	9/Feb/12	6/Feb/12		
Lab report ID			12V572681	12V573478	12V572231		
Consultants			Hemmera	Franz	Franz		
Screen depth (m)					4.57 – 6.1		
Chloride ion			-	250000	31100	20100	22000
Sulphide			-	0.025	-	-	<10

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME (AW-f/AW-m). (Current as of 15-November-201

Bold cells indicates parameter exceeds BC WQ Guidelines

Table 17
Groundwater Analytical Results - MAHs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	2	2	1, 2, 26, 27	1, 2, 26, 27
Station ID				2-BH1	4-BH3	MV-11BH-01M	MV-11BH-03M	MV-11BH-03M
Field label				BH1 W-1	BH3 W-1A	MV-11BH-01M	MV-11BH-03M	MV-GWDUP2
Duplicate ID							MV-GWDUP2	MV-11BH-03M
Date				24/Jul/98	23/Jul/98	7/Feb/12	6/Feb/12	6/Feb/12
Lab report ID				Next_Cantest-1998	8073043	12V572681	12V572231	12V572231
Consultants				NEXT	NEXT	Franz	Franz	Franz
Screen depth (m)				0.5 – 3.5	0.5 – 3.5	4.27 – 5.79	2.13 – 3.66	2.13 – 3.66
Benzene				200	5	5	0.2	0.2
Ethylbenzene	11000	2.4	2.4	<0.1	<0.1	<0.5	<0.5	<0.5
Styrene	72	-	720	<0.1	<0.1	<0.5	<0.5	<0.5
Toluene	83	24	24	<0.1	0.4	<0.5	<0.5	<0.5
m+p-Xylene	-	-	-	-	-	<0.5	-	<0.5
o-Xylene	-	-	-	-	-	<0.5	-	<0.5
Xylenes (total)	18000	300	300	<0.1	<0.1	-	<0.5	-

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 15-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 17
 Groundwater Analytical Results Within 10m of the High Water Mark - MAHs
 Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME (AW-f/AW-m)	BC WQ Guidelines (approved and working)	2	2	2	2	1, 2, 26, 27
Station ID			2-BH28	2-BH29	MW2-29	MW2-30	MV-11BH-02M
Field label			BH28 W-1	BH29 W-1	MW2-29	MW2-30	MV-11BH-02M
Duplicate ID							
Date			24/Jul/98	23/Jul/98	7/Feb/12	9/Feb/12	6/Feb/12
Lab report ID			Next_Cantest-1998	Next_Cantest-1998	12V572681	12V573478	12V572231
Consultants			NEXT	NEXT	Hemmera	Franz	Franz
Screen depth (m)			0.5 – 3.5	0.5 – 3.5			4.57 – 6.1
Benzene			110	5	3.8	<0.1	<0.5
Ethylbenzene	25	200	<2.5	<0.1	<0.5	<0.5	<0.5
Styrene	72	72	<2.5	<0.1	<0.5	<0.5	<0.5
Toluene	2	0.5	79	<0.1	<0.5	<0.5	<0.5
Xylenes (total)	-	30	<2.5	<0.1	<0.5	<0.5	<0.5

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME (AW-f/AW-m). (Current as of 15-November-2012)

Bold cells indicates parameter exceeds BC WQ Guidelines

Table 18
Groundwater Analytical Results - Dissolved Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	2	2	2	2	2	2	2	2
Station ID				MW2-5	MW2-5	MW2-5	MW2-5	MW2-5	MW2-5	MW2-5	MW2-5	MW2-5
Field label												
Duplicate ID												
Date				21/Feb/07	31/Jul/07	5/Sep/07	18/Dec/07	28/Jul/08	22/Oct/08	29/Jan/09	16/Apr/09	31/Aug/09
Lab report ID				405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	100416147, 405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera
Consultants												
Screen depth (m)												
pH	6.5 to 8.7	6.5 to 8.5	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO3) (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	-	-	-	-	-	-	-	-	-
Dissolved Antimony	1600	6	6	-	-	-	-	-	-	-	-	-
Dissolved Arsenic	5	10	10	-	-	-	-	-	-	-	-	-
Dissolved Barium	500	1000	1000	-	-	-	-	-	-	-	-	-
Dissolved Beryllium	5.3	-	53	-	-	-	-	-	-	-	-	-
Dissolved Boron	5000	5000	5000	-	-	-	-	-	-	-	-	-
Dissolved Cadmium	0.017	5	0.6	-	-	-	-	-	-	-	-	-
Dissolved Calcium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Chromium	8.9	50	10	<10	6	1	4	1	2	1.3	2	1
Dissolved Chromium (III)	-	-	50	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dissolved Chromium (VI)	-	-	10	<20	<10	<20	<10	<10	<10	<10	<10	<10
Dissolved Cobalt	-	-	40	-	-	-	-	-	-	-	-	-
Dissolved Copper	2	1000	20	-	-	-	-	-	-	-	-	-
Dissolved Iron	300	300	6500	-	-	-	-	-	-	-	-	-
Dissolved Lead	2	10	10	-	-	-	-	-	-	-	-	-
Dissolved Lithium	-	-	730	-	-	-	-	-	-	-	-	-
Dissolved Magnesium	-	-	100000	-	-	-	-	-	-	-	-	-
Dissolved Manganese	-	50	550	-	-	-	-	-	-	-	-	-
Dissolved Mercury	0.016	1	1	-	-	-	-	-	-	-	-	-
Dissolved Molybdenum	73	-	250	-	-	-	-	-	-	-	-	-
Dissolved Nickel	83	-	83	-	-	-	-	-	-	-	-	-
Dissolved Selenium	1	10	10	-	-	-	-	-	-	-	-	-
Dissolved Silicon	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Silver	0.1	-	15	-	-	-	-	-	-	-	-	-
Dissolved Sodium	-	200000	200000	-	-	-	-	-	-	-	-	-
Dissolved Strontium	-	-	22000	-	-	-	-	-	-	-	-	-
Dissolved Tellurium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Thallium	0.8	-	3	-	-	-	-	-	-	-	-	-
Dissolved Thorium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Tin	-	-	22000	-	-	-	-	-	-	-	-	-
Dissolved Titanium	100	-	1000	-	-	-	-	-	-	-	-	-
Dissolved Uranium	300	20	20	-	-	-	-	-	-	-	-	-
Dissolved Vanadium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Zinc	10	5000	100	-	-	-	-	-	-	-	-	-
Dissolved Zirconium	-	-	-	-	-	-	-	-	-	-	-	-

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	2	2	2	2	2	2	2	2
Station ID				MW2-6	MW2-6	MW2-6	MW2-6	MW2-6	MW2-6	MW2-6	MW2-6	MW2-6
Field label												
Duplicate ID												
Date				21/Feb/07	31/Jul/07	5/Aug/07	18/Dec/07	25/Jul/08	22/Oct/08	29/Jan/09	15/Apr/09	31/Aug/09
Lab report ID				405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	405-006.03 Chrome Hemmera	101119107
Consultants												
Screen depth (m)												
pH	6.5 to 8.7	6.5 to 8.5	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO3) (mg/L)	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	-	-	-	-	-	-	-	-	-
Dissolved Antimony	1600	6	6	-	-	-	-	-	-	-	-	-
Dissolved Arsenic	5	10	10	-	-	-	-	-	-	-	-	-
Dissolved Barium	500	1000	1000	-	-	-	-	-	-	-	-	-
Dissolved Beryllium	5.3	-	53	-	-	-	-	-	-	-	-	-
Dissolved Boron	5000	5000	5000	-	-	-	-	-	-	-	-	-
Dissolved Cadmium	0.017	5	0.6	-	-	-	-	-	-	-	-	-
Dissolved Calcium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Chromium	8.9	50	10	50	68	24	41	7	6	11	18	9
Dissolved Chromium (III)	-	-	50	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dissolved Chromium (VI)	-	-	10	50	68	24	20	<10	<10	11	20	<10
Dissolved Cobalt	-	-	40	-	-	-	-	-	-	-	-	-
Dissolved Copper	2	1000	20	-	-	-	-	-	-	-	-	-
Dissolved Iron	300	300	6500	-	-	-	-	-	-	-	-	-
Dissolved Lead	2	10	10	-	-	-	-	-	-	-	-	-
Dissolved Lithium	-	-	730	-	-	-	-	-	-	-	-	-
Dissolved Magnesium	-	-	100000	-	-	-	-	-	-	-	-	-
Dissolved Manganese	-	50	550	-	-	-	-	-	-	-	-	-
Dissolved Mercury	0.016	1	1	-	-	-	-	-	-	-	-	-
Dissolved Molybdenum	73	-	250	-	-	-	-	-	-	-	-	-
Dissolved Nickel	83	-	83	-	-	-	-	-	-	-	-	-
Dissolved Selenium	1	10	10	-	-	-	-	-	-	-	-	-
Dissolved Silicon	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Silver	0.1	-	15	-	-	-	-	-	-	-	-	-
Dissolved Sodium	-	200000	200000	-	-	-	-	-	-	-	-	-
Dissolved Strontium	-	-	22000	-	-	-	-	-	-	-	-	-
Dissolved Tellurium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Thallium	0.8	-	3	-	-	-	-	-	-	-	-	-
Dissolved Thorium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Tin	-	-	22000	-	-	-	-	-	-	-	-	-
Dissolved Titanium	100	-	1000	-	-	-	-	-	-	-	-	-
Dissolved Uranium	300	20	20	-	-	-	-	-	-	-	-	-
Dissolved Vanadium	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Zinc	10	5000	100	-	-	-	-	-	-	-	-	-
Dissolved Zirconium	-	-	-	-	-	-	-	-	-	-	-	-

Notes
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Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012.)
Bold indicates parameter exceeds Canadian DW Quality. (Current as of 15-November-2012.)
Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012.)

Table 18
Groundwater Analytical Results - Dissolved Metals
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	1, 2, 26, 27	1, 2, 26, 27	1, 2, 26, 27
Station ID				MV-11BH-03M	MV-11BH-03M	LI14
Field label				MV-11BH-03M	MV-GWDUP2	LI 14
Duplicate ID				MV-GWDUP2	MV-11BH-03M	
Date				6/Feb/12	6/Feb/12	28/Mar/94
Lab report ID				12V572231	12V572231	1700-K
Consultants				Franz	Franz	SRK
Screen depth (m)				2.13 – 3.66	2.13 – 3.66	1.5 – 3
pH	6.5 to 8.7	6.5 to 8.5	-	6.78	6.78	-
Hardness (CaCO3) (mg/L)	-	-	-	241000	241000	-
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	66	-	-
Dissolved Antimony	1600	6	6	0.09	-	-
Dissolved Arsenic	5	10	10	4.4	-	-
Dissolved Barium	500	1000	1000	108.0	-	-
Dissolved Beryllium	5.3	-	53	0.01	-	-
Dissolved Boron	5000	5000	5000	52	-	-
Dissolved Cadmium	0.017	5	0.6	0.02	-	-
Dissolved Calcium	-	-	-	77800	-	-
Dissolved Chromium	8.9	50	10	25.0	-	<30
Dissolved Chromium (III)	-	-	50	-	-	-
Dissolved Chromium (VI)	-	-	10	-	-	-
Dissolved Cobalt	-	-	40	2.59	-	-
Dissolved Copper	2	1000	20	0.4	-	0.4
Dissolved Iron	300	300	6500	34600	-	-
Dissolved Lead	2	10	10	0.22	-	-
Dissolved Lithium	-	-	730	0.6	-	-
Dissolved Magnesium	-	-	100000	11400	-	-
Dissolved Manganese	-	50	550	1800	-	-
Dissolved Mercury	0.016	1	1	0.003	-	-
Dissolved Molybdenum	73	-	250	0.35	-	-
Dissolved Nickel	83	-	83	4.3	-	-
Dissolved Selenium	1	10	10	0.2	-	-
Dissolved Silicon	-	-	-	-	-	-
Dissolved Silver	0.1	-	15	<0.01	-	-
Dissolved Sodium	-	200000	200000	7980	8500	-
Dissolved Strontium	-	-	22000	-	-	-
Dissolved Tellurium	-	-	-	-	-	-
Dissolved Thallium	0.8	-	3	0.017	-	-
Dissolved Thorium	-	-	-	-	-	-
Dissolved Tin	-	-	22000	-	-	-
Dissolved Titanium	100	-	1000	102.0	-	-
Dissolved Uranium	300	20	20	0.20	-	-
Dissolved Vanadium	-	-	-	2.8	-	-
Dissolved Zinc	10	5000	100	15	-	-
Dissolved Zirconium	-	-	-	-	-	-

Notes
All units in ug/L, unless otherwise noted.
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Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012)
Bold indicates parameter exceeds Candian DW Quality. (Current as of 15-November-2012)
Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 19
Groundwater Analytical Results - PAHs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	1, 2, 26, 27
Station ID				MV-11BH-03M
Field label				MV-11BH-03M
Duplicate ID				
Date				6/Feb/12
Lab report ID				12V572231
Consultants				Franz
Screen depth (m)				2.13 – 3.66
Acenaphthene				5.8
Acenaphthylene	46	-	-	<0.05
Acridine	0.05	-	0.5	<0.05
Anthracene	0.012	-	1	<0.05
Benzo[a]anthracene	0.018	-	1	<0.05
Benzo[a]pyrene	0.015	0.01	0.01	<0.01
Benzo[b]fluoranthene	-	-	-	<0.05
Benzo[ghi]perylene	0.17	-	-	<0.05
Benzo[k]fluoranthene	0.48	-	-	<0.05
Chrysene	1.4	-	1	<0.05
Dibenzo[a,h]anthracene	0.26	-	-	<0.05
Fluoranthene	0.04	-	2	<0.05
Fluorene	3	-	120	<0.05
Indeno[1,2,3-cd]pyrene	0.21	-	-	<0.05
Naphthalene	1.1	-	10	<0.05
Phenanthrene	0.4	-	3	<0.05
Pyrene	0.025	-	0.2	<0.02
Quinoline	3.4	-	34	<0.1

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 15-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 19
Groundwater Analytical Results Within 10m of the High Water Mark - PAHs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME (AW-f/AW-m)	BC WQ Guidelines (approved and working)	2	2	1, 2, 26, 27		
Station ID			MW2-29	MW2-30	MV-11BH-02M		
Field label			MW2-29	MW2-30	MV-11BH-02M		
Duplicate ID							
Date			7/Feb/12	9/Feb/12	6/Feb/12		
Lab report ID			12V572681	12V573478	12V572231		
Consultants			Hemmera	Franz	Franz		
Screen depth (m)					4.57 – 6.1		
Acenaphthene			5.8	6	<0.05	<0.05	<0.05
Acenaphthylene			-	0.128	<0.05	<0.05	<0.05
Acridine	4.4	0.05	<0.05	<0.05	<0.05		
Anthracene	0.012	0.1	<0.05	<0.05	<0.05		
Benzo[a]anthracene	0.018	0.1	<0.05	<0.05	<0.05		
Benzo[a]pyrene	0.015	0.01	<0.01	<0.01	<0.01		
Benzo[b]fluoranthene	-	-	<0.05	<0.05	<0.05		
Benzo[ghi]perylene	-	0.1	<0.05	<0.05	<0.05		
Benzo[k]fluoranthene	-	0.24	<0.05	<0.05	<0.05		
Chrysene	-	0.1	<0.05	<0.05	<0.05		
Dibenzo[a,h]anthracene	-	0.135	<0.05	<0.05	<0.05		
Fluoranthene	0.04	4	<0.05	<0.05	<0.05		
Fluorene	3	12	<0.05	<0.05	<0.05		
Indeno[1,2,3-cd]pyrene	-	0.07	<0.05	<0.05	<0.05		
Naphthalene	1.1	1	<0.05	<0.05	<0.05		
Phenanthrene	0.4	0.3	<0.05	<0.05	<0.05		
Pyrene	0.025	0.02	<0.02	0.03	<0.02		
Quinoline	3.4	3.4	<0.1	<0.1	<0.1		

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME (AW-f/AW-m). (Current as of 15-November-2012)

Bold cells indicates parameter exceeds BC WQ Guidelines

Table 20
Groundwater Analytical Results - Petroleum Hydrocarbons
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	2	1, 2, 26, 27
Station ID				2-BH1	4-BH3	MV-11BH-03M
Field label				BH1 W-1	BH3 W-1A	MV-11BH-03M
Duplicate ID						
Date				24/Jul/98	23/Jul/98	6/Feb/12
Lab report ID				Next_Cantest-1998	8073043	12V572231
Consultants				NEXT	NEXT	Franz
Screen depth (m)				0.5 – 3.5	0.5 – 3.5	2.13 – 3.66
EPH (C10-C19)				-	-	5000
EPH (C19-C32)	-	-	-	-	-	<100
LEPH	-	-	500	-	-	<100
HEPH	-	-	-	-	-	<100
VH C6-C10	-	-	15000	-	-	<100
VPH (VH6-10) minus BTEX	-	-	1500	<100	<100	<100
F1 (C6-C10)	-	-	-	-	-	<100
F1 (C6-C10) minus BTEX	9100	-	-	-	-	<100
F2 (C10-C16)	1300	-	-	-	-	<100
F3 (C16-C34)	-	-	-	-	-	<100
F4 (C34-C50)	-	-	-	-	-	<100

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 15-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 20
Groundwater Analytical Results Within 10m of the High Water Mark - Petroleum Hydrocarbons
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME (AW-f/AW-m)	BC WQ Guidelines (approved and working)	2	2	2	2	1, 2, 26, 27
Station ID			2-BH28	2-BH29	MW2-29	MW2-30	MV-11BH-02M
Field label			BH28 W-1	BH29 W-1	MW2-29	MW2-30	MV-11BH-02M
Duplicate ID							
Date			24/Jul/98	23/Jul/98	7/Feb/12	9/Feb/12	6/Feb/12
Lab report ID			Next_Cantest-1998	Next_Cantest-1998	12V572681	12V573478	12V572231
Consultants			NEXT	NEXT	Franz	Franz	Franz
Screen depth (m)			0.5 – 3.5	0.5 – 3.5			4.57 – 6.1
EPH (C10-C19)			-	-	-	-	<100
EPH (C19-C32)	-	-	-	-	<100	<100	<100
HEPH	-	-	-	-	<100	<100	<100
LEPH	-	-	-	-	<100	<100	<100
VH C6-C10	-	-	-	-	<100	<100	<100
VPH (VH6-10) minus BTEX	-	-	<1000	<100	<100	<100	<100
F1 (C6-C10)	-	-	-	-	<100	<100	<100
F1 (C6-C10) minus BTEX	-	-	-	-	<100	<100	<100
F2 (C10-C16)	-	-	-	-	<100	<100	<100
F3 (C16-C34)	-	-	-	-	<100	<100	<100
F4 (C34-C50)	-	-	-	-	<100	100	<100

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME (AW-f/AW-m). (Current as of 15-November-2012)

Table 21
Groundwater Analytical Results - Phenols/Chlorophenols
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	2	2	2	2	1	2	1, 2, 26, 27
Station ID				2-BH1	2-BH23	2-BH4	4-BH1	4-BH3	4-BH5	MV-11BH-01M	MV-11BH-03M
Field label				BH1 W-1	BH23 W-1	BH4 W-1	BH1 W-1	BH3 W-1A	BH5 W-1 Lot #4	MV-11BH-01M	MV-11BH-03M
Duplicate ID											
Date				24/Jul/98	24/Jul/98	23/Jul/98	23/Jul/98	23/Jul/98	23/Jul/98	7/Feb/12	6/Feb/12
Lab report ID				Next_Cantest-1998	Next_Cantest-1998	Next_Cantest-1998	8073043	8073043	8073043	12V572681	12V572231
Consultants				NEXT	NEXT	NEXT	NEXT	NEXT	NEXT		
Screen depth (m)				0.5 – 3.5	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5	4.27 – 5.79	2.13 – 3.66
pH (pH units)	6.5 to 8.7	6.5 to 8.5	-	7.12	6.7	6.62	6.68	8.94	8.13	6.52	6.78
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	<0.5	<0.5
2-Chlorophenol	4400	-	0.1	-	-	-	-	-	-	<0.5	<0.5
o-Cresol	-	-	-	-	-	-	-	-	-	<0.5	<0.5
m+p-Cresol	-	-	-	-	-	-	-	-	-	<0.5	<0.5
2,4-Dichlorophenol	0.2	0.3	0.3	-	-	-	-	-	-	<0.1	<0.1
2,6-Dichlorophenol	-	-	0.3	-	-	-	-	-	-	<0.1	<0.1
2,4-Dimethylphenol	2100	-	730	-	-	-	-	-	-	<0.5	<0.5
2,4-Dinitrophenol	150	-	-	-	-	-	-	-	-	<5	<5
Dinoseb	0.05	10	10	-	-	-	-	-	-	<5	<5
2-Methyl 4,6-dinitrophenol	-	-	3.7	-	-	-	-	-	-	<5	<5
2-Nitrophenol	-	-	-	-	-	-	-	-	-	<5	<5
4-Nitrophenol	-	-	-	-	-	-	-	-	-	<5	<5
Pentachlorophenol	0.5	30	1	0.06	<0.05	0.17	<0.05	<0.05	<u>1.99</u>	<0.5	<0.5
Phenol	4	-	10	-	-	-	-	-	-	<2	<2
2,3,4,5-Tetrachlorophenol	-	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	1	1	1	<0.05	<0.05	<0.05	<0.05	<0.05	1.32	<0.5	<0.5
2,3,5,6-Tetrachlorophenol	-	-	1	-	-	-	-	-	-	<0.5	<0.5
2,4,6-Tribromophenol	-	-	-	-	-	-	96	106	96	-	-
2,3,4-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5
2,3,5-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5
2,3,6-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	<0.5	<0.5
2,4,5-Trichlorophenol	63	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	4.68	<0.5	<0.5
2,4,6-Trichlorophenol	18	2	2	<0.1	<0.1	<0.1	<0.1	<0.1	0.33	<0.5	<0.5
3,4,5-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5

Notes

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Bold indicates parameter exceeds Candian DW Quality. (Current as of 15-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 21
Groundwater Analytical Results Within 10m of the High Water Mark - Phenols/Chlorophenols
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME (AW-f/AW-m)	BC WQ Guidelines (approved and working)	2	2	1, 2, 26, 27		
Station ID			MW2-29	MW2-30	MV-11BH-02M		
Field label			MW2-29	MW2-30	MV-11BH-02M		
Duplicate ID							
Date			7/Feb/12	9/Feb/12	6/Feb/12		
Lab report ID			12V572681	12V573478	12V572231		
Consultants			Hemmera	Franz	Franz		
Screen depth (m)					4.57 – 6.1		
4-Chloro-3-methylphenol			-	-	<0.5	<0.5	<0.5
2-Chlorophenol			-	-	<0.5	<0.5	<0.5
o-Cresol	-	-	<0.5	<0.5	<0.5		
m+p-Cresol	-	-	<0.5	<0.5	<0.5		
2,4-Dichlorophenol	-	1	<0.1	<0.1	<0.1		
2,6-Dichlorophenol	-	3.3	<0.1	<0.1	<0.1		
2,4-Dimethylphenol	-	-	<0.5	<0.5	<0.5		
2,4-Dinitrophenol	-	-	<5	<5	<5		
Dinoseb	0.05	-	<5	<5	<5		
2-Methyl 4,6-dinitrophenol	-	-	<5	<5	<5		
2-Nitrophenol	-	-	<5	<5	<5		
4-Nitrophenol	-	-	<5	<5	<5		
Pentachlorophenol	0.5	-	<0.5	<0.5	<0.5		
Phenol	-	-	<2	<2	<2		
2,3,4,5-Tetrachlorophenol	-	0.6	<0.5	<0.5	<0.5		
2,3,4,6-Tetrachlorophenol	-	1.84	<0.5	<0.5	<0.5		
2,3,5,6-Tetrachlorophenol	-	-	<0.5	<0.5	<0.5		
2,3,4-Trichlorophenol	-	0.8	<0.5	<0.5	<0.5		
2,3,5-Trichlorophenol	-	0.8	<0.5	<0.5	<0.5		
2,3,6-Trichlorophenol	-	2.6	<0.5	<0.5	<0.5		
2,4,5-Trichlorophenol	-	0.7	<0.5	<0.5	<0.5		
2,4,6-Trichlorophenol	-	1.9	<0.5	<0.5	<0.5		
3,4,5-Trichlorophenol	-	0.3	<0.5	<0.5	<0.5		

Notes

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Red cells indicates parameter exceeds CCME (AW-f/AW-m). (Current as of 15-November-2012)

Bold cells indicates parameter exceeds BC WQ Guidelines

Table 22
Groundwater Analytical Results - VOCs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	2	2	2	1, 2, 26, 27	1, 2, 26, 27			
Station ID				2-BH1	4-BH3	MV-11BH-01M	MV-11BH-03M	MV-11BH-03M			
Field label				BH1 W-1	BH3 W-1A	MV-11BH-01M	MV-11BH-03M	MV-GWDUP2			
Duplicate ID							MV-GWDUP2	MV-11BH-03M			
Date				24/Jul/98	23/Jul/98	7/Feb/12	6/Feb/12	6/Feb/12			
Lab report ID				Next Cantest-1998	8073043	12V572681	12V572231	12V572231			
Consultants				NEXT	NEXT	Franz	Franz	Franz			
Screen depth (m)				0.5 – 3.5	0.5 – 3.5	4.27 – 5.79	2.13 – 3.66	2.13 – 3.66			
Acetone				330	-	33000	-	-	<10	<10	<10
Bromodichloromethane				67000	-	16	<0.1	<0.1	<1	<1	<1
Bromoform	840	-	100	<0.2	<0.2	<1	<1	<1			
Bromomethane	2	-	51	-	<0.8	<1	<1	<1			
Carbon tetrachloride	6.8	5	5	<0.1	<0.1	<0.5	<0.5	<0.5			
Chlorobenzene	1.3	30	13	<0.1	<0.1	<1	<1	<1			
Chlorodibromomethane	10000	-	100	<0.1	<0.1	<1	<1	<1			
Chloroethane	-	-	46	<0.4	<0.4	<1	<1	<1			
Chloroform	1.8	-	20	<0.3	<0.3	<1	<1	<1			
Chloromethane	-	-	950	<0.4	<0.4	<1	<1	<1			
Dibromomethane	-	-	370	-	<0.2	-	-	-			
1,2-Dichlorobenzene	0.7	3	3	-	<0.1	<1	<1	<1			
1,3-Dichlorobenzene	42	-	1500	-	<0.1	<0.5	<0.5	<0.5			
1,4-Dichlorobenzene	26	1	1	-	<0.1	<0.5	<0.5	<0.5			
Dichlorodifluoromethane	-	-	7300	-	<0.2	-	-	-			
1,1-Dichloroethane	9000	-	3700	<0.1	<0.1	<1	<1	<1			
1,2-Dichloroethane	100	5	5	<0.4	<0.4	<1	<1	<1			
1,1-Dichloroethene	490	14	14	-	<0.1	<1	<1	<1			
cis-1,2-Dichloroethene	12000	-	370	-	<0.1	<1	<1	<1			
trans-1,2-Dichloroethene	12000	-	730	-	<0.1	<1	<1	<1			
Dichloromethane	98	50	50	<6	<6	<1	<1	<1			
1,2-Dichloropropane	9.3	-	9.9	-	<0.1	<1	<1	<1			
cis-1,3-Dichloropropene	-	-	-	<0.1	<0.1	<1	<1	<1			
trans-1,3-Dichloropropene	-	-	-	<0.1	<0.1	<1	<1	<1			
Ethylene dibromide	3.3	-	0.34	-	<0.1	<0.3	<0.3	<0.3			
2-Hexanone	-	-	-	-	<5	-	-	-			
Methyl ethyl ketone	120000	-	22000	-	<5	<10	<10	<10			
Methyl isobutyl ketone	57000	-	2900	-	<2	<10	<10	<10			
Methyl tert-butyl ether	4300	15	15	-	-	<1	<1	<1			
1,1,1,2-Tetrachloroethane	6	-	26	-	-	<1	<1	<1			
1,1,2,2-Tetrachloroethane	22	-	3.4	<0.2	<0.2	<1	<1	<1			
Tetrachloroethene	110	30	30	0.2	1.1	<1	<1	<1			
1,2,4-Trichlorobenzene	5.4	-	54	-	-	<1	<1	<1			
1,1,1-Trichloroethane	4200	-	10000	-	<0.1	<1	<1	<1			
1,1,2-Trichloroethane	9400	-	12	-	<0.1	<1	<1	<1			
Trichloroethene	29	5	5	<0.1	<0.1	<1	<1	<1			
Trichlorofluoromethane	-	-	11000	<0.2	<0.2	<1	<1	<1			
Vinyl chloride	13	2	2	<0.2	<0.2	<1	<1	<1			

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 15-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 15-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 15-November-2012)

Table 22
Groundwater Analytical Results Within 10m of the High Water Mark - VOCs
Lots 2 and 4, Surrey-Brownsville Site

Area ID	CCME (AW-f/AW-m)	BC WQ Guidelines (approved and working)	2	2	2	2	1, 2, 26, 27
Station ID			2-BH28	2-BH29	MW2-29	MW2-30	MV-11BH-02M
Field label			BH28 W-1	BH29 W-1	MW2-29	MW2-30	MV-11BH-02M
Duplicate ID							
Date			24/Jul/98	23/Jul/98	7/Feb/12	9/Feb/12	6/Feb/12
Lab report ID			Next_Cantest-1998	Next_Cantest-1998	12V572681	12V573478	12V572231
Consultants			NEXT	NEXT	Franz	Franz	Franz
Screen depth (m)			0.5 – 3.5	0.5 – 3.5			4.57 – 6.1
Acetone	-	-	-	-	<10	<10	<10
Bromodichloromethane	-	-	<2.5	<0.1	<1	<1	<1
Bromoform	-	-	<5	<0.2	<1	<1	<1
Bromomethane	-	-	-	-	<1	<1	<1
Carbon tetrachloride	13.3	13.3	<2.5	<0.1	<0.5	<0.5	<0.5
Chlorobenzene	1.3	1.3	23	<0.1	<1	<1	<1
Chlorodibromomethane	-	-	<2.5	<0.1	<1	<1	<1
Chloroethane	-	-	<10	<0.4	<1	<1	<1
Chloroform	1.8	1.8	<7.5	<0.3	<1	<1	<1
Chloromethane	-	-	<10	<0.4	<1	<1	<1
1,2-Dichlorobenzene	0.7	0.7	-	-	<1	<1	<1
1,3-Dichlorobenzene	150	150	-	-	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	26	26	-	-	<0.5	<0.5	<0.5
1,1-Dichloroethane	-	-	<2.5	<0.1	<1	<1	<1
1,2-Dichloroethane	100	100	<10	<0.4	<1	<1	<1
1,1-Dichloroethene	-	-	-	-	<1	<1	<1
cis-1,2-Dichloroethene	-	-	-	-	<1	<1	<1
trans-1,2-Dichloroethene	-	-	-	-	<1	<1	<1
Dichloromethane	98.1	98.1	<150	<6	<1	<1	<1
1,2-Dichloropropane	-	-	-	-	<1	<1	<1
cis-1,3-Dichloropropene	-	-	<2.5	<0.1	<1	<1	<1
trans-1,3-Dichloropropene	-	-	<2.5	<0.1	<1	<1	<1
Ethylene dibromide	-	-	-	-	<0.3	<0.3	<0.3
Methyl ethyl ketone	-	-	-	-	<10	<10	<10
Methyl isobutyl ketone	-	-	-	-	<10	<10	<10
Methyl tert-butyl ether	5000	20	-	-	<1	<1	<1
1,1,1,2-Tetrachloroethane	-	-	-	-	<1	<1	<1
1,1,2,2-Tetrachloroethane	-	-	<5	<0.2	<1	<1	<1
Tetrachloroethene	111	111	<2.5	0.2	<1	<1	<1
1,2,4-Trichlorobenzene	5.4	-	-	-	<1	<1	<1
1,1,1-Trichloroethane	-	-	-	-	<1	<1	<1
1,1,2-Trichloroethane	-	-	-	-	<1	<1	<1
Trichloroethene	21	21	<2.5	<0.1	<1	<1	<1
Trichlorofluoromethane	-	-	<5	<0.2	<1	<1	<1
Vinyl chloride	-	-	<5	<0.2	<1	<1	<1

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME (AW-f/AW-m). (Current as of 15-November-2012)

Bold cells indicates parameter exceeds BC WQ Guidelines

Table 23
Soil Analytical Results - Monocyclic Aromatic Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID					3	9	9	16	16	28,32	28,32				
Station ID	CCME IL (Fine, Surface)	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	3-S1	MV-11BH-07M	MV-11BH-07M	MV-11BH-14M	MV-11BH-14M	MW07-9	MW07-9				
Field label					S1 @ 0.5'	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-14M-3	MV-11BH-14M-4	MW07-9-3	MW07-9-5				
Duplicate ID															
Date					22/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	15/Aug/07	15/Aug/07				
Lab report ID					8073131-soil	11V559248	11V559248	11V559248	11V559248	80817021	80817021				
Consultants					NEXT	Franz	Franz	Franz	Franz	Hemmera	Hemmera				
Depth (m)					0.15	1 – 1.5	2 – 3	1.5 – 2	2.25 – 3	1.7 – 2.286	2.667 – 3.048				
Grain Type					coarse	coarse	fine	coarse	fine						
Benzene					0.0068	0.03	0.0068	0.04	<0.01	<0.02	<0.02	<0.005	<0.005	<0.04	<0.04
Ethylbenzene					0.018	0.082	0.018	7	<0.01	<0.05	<0.05	<0.01	<0.01	<0.5	<0.5
Styrene	50	50	50	50	<0.01	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1				
Toluene	0.08	0.37	0.08	2.5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5				
m+p-Xylene	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	-				
o-Xylene	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	-				
Xylenes (total)	2.4	11	2.4	20	<0.01	-	-	<0.05	<0.05	<0.1	<0.1				

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL (Fine, Surface). (Current as of 13-November-2012)

Bold indicates parameter exceeds CCME IL (Coarse, Surface). (Current as of 13-November-2012)

Underline indicates parameter exceeds CCME IL (Fine, Subsoil). (Current as of 13-November-2012)

Italic and dark blue text indicates parameter exceeds BC CSR IL (STRINGENT). (Current as of 13-November-2012)

Table 24
Soil Analytical Results Compared to CSR Schedule 7 - MAHs
Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	3	9	9	16	16	28,32	28,32
Station ID		3-S1	MV-11BH-07M	MV-11BH-07M	MV-11BH-14M	MV-11BH-14M	MW07-9	MW07-9
Field label		S1 @ 0.5'	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-14M-3	MV-11BH-14M-4	MW07-9-3	MW07-9-5
Duplicate ID								
Date		22/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	15/Aug/07	15/Aug/07
Lab report ID		8073131-soil	11V559248	11V559248	11V559248	11V559248	80817021	80817021
Consultants		NEXT	Franz	Franz	Franz	Franz	Hemmera	Hemmera
Depth (m)		0.15	1 – 1.5	2 – 3	1.5 – 2	2.25 – 3	1.7 – 2.286	2.667 – 3.048
Benzene	0.04	<0.01	<0.02	<0.02	<0.005	<0.005	<0.04	<0.04
Ethylbenzene	1	<0.01	<0.05	<0.05	<0.01	<0.01	<0.5	<0.5
Styrene	5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Toluene	1.5	<0.01	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5
m+p-Xylene	-	-	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	-	-	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes (total)	5	<0.01	-	-	<0.05	<0.05	<0.1	<0.1

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 26
Soil Analytical Results Compared to CSR Schedule 7 - Metals

Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	7	9	7	9	4, 5, 9	9	7, 8, 9	5, 9	7	7	
Station ID		3-BH1	3-BH2	3-BH23	3-BH3	3-BH31	3-BH6	3-BH7	3-BH8	MV-11BH-04M	MV-11BH-04M	
Field label		BH1 1-1 @ 1.5'	BH2 2-1 @ 2.5'	BH24 24-1 @ 2.5'	BH3 3-1 @ 2.5'	BH31 31-1 @ 2'	BH6 6-1 @ 2'	BH7 7-2 @ 5'	BH8 8-1	MV-11BH-04M-3	MV-11BH-04M-4	
Duplicate ID												
Date		22/Jul/98	22/Jul/98	20/Jul/98	22/Jul/98	22/Jul/98	22/Jul/98	17/Jul/98	17/Jul/98	17/Dec/11	17/Dec/11	
Lab report ID		8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	11V560614	11V560614	
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	
Depth (m)		0.46	0.76	0.76	0.76	0.6	0.6	1.5	0.6	2 – 3	3 – 4	
Aluminum		-	6550	18300	23000	9330	7640	26800	23900	22200	-	-
Antimony		20	<10	<10	<10	<10	<10	<10	<10	<10	0.44	0.65
Arsenic	15	<10	<10	<10	<10	<10	<10	<10	<10	4.0	6.5	
Barium	400	54	177	138	93	38	160	197	127	154.0	155.0	
Beryllium	4	<1	<1	<1	<1	<1	<1	<1	<1	0.45	0.55	
Boron	-	8	15	17	13	12	20	19	16	<0.1	0.2	
Cadmium	1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.09	0.31	
Calcium	-	5160	6900	4250	5590	3890	5300	6450	5070	-	-	
Chromium	60	20	70	51	36	27	64	64	48	50	46	
Cobalt	50	7	5	11	7	7	11	10	9	10.5	10.3	
Copper	90	14	36	29	21	13	20	33	23	16.1	37.9	
Iron	-	11000	16100	30500	18100	14800	28400	27900	24700	-	-	
Lead	100	<30	159	<30	218	<30	<30	106	<30	10.00	9.55	
Magnesium	-	6640	4630	9110	7330	6420	9550	8190	7830	-	-	
Manganese	-	225	230	246	268	221	334	296	341	-	-	
Mercury	15	0.06	0.07	0.04	0.02	0.02	0.06	0.1	0.05	0.04	0.06	
Molybdenum	10	<4	5	<4	<4	<4	<4	<4	<4	1.24	1.91	
Nickel	100	25	28	36	30	29	36	32	31	32.9	36.0	
Selenium	3	<3	<3	<3	<3	<3	<3	<3	<3	0.6	1.0	
Silver	20	<2	<2	<2	<2	<2	<2	<2	<2	<0.05	0.11	
Sodium	-	281	393	257	377	195	398	388	258	-	-	
Strontium	-	25	42	36	32	18	50	62	38	-	-	
Thallium	-	-	-	-	-	-	-	-	-	0.17	0.16	
Tin	50	<5	24	<5	<5	<5	<5	7	<5	1.41	1.03	
Titanium	-	311	224	225	504	407	701	360	220	-	-	
Uranium	-	-	-	-	-	-	-	-	-	1.13	2.01	
Vanadium	200	23	42	53	44	36	72	60	51	63	64	
Zinc	150	97	172	80	119	32	102	136	71	73	71	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 26
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lot 3, Surrev-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	7	9	9	9	9	9	9	9	9	
Station ID		MV-11BH-04M	MV-11BH-05	MV-11BH-06	MV-11BH-06	MV-11BH-07M	MV-11BH-07M	MV-11BH-08	MV-11BH-08	MV-11BH-08	MV-11BH-09
Field label		MV-11BH-04M-5	MV-11BH-05-2	MV-11BH-06-1	MV-11BH-06-3	MV-11BH-07M-1	MV-11BH-07M-3	MV-11BH-08-2	MV-Dup1	MV-11BH-08-3	MV-11BH-09-1
Duplicate ID								MV-Dup1	MV-11BH-08-2		
Date		17/Dec/11	12/Dec/11	12/Dec/11	12/Dec/11	14/Dec/11	14/Dec/11	12/Dec/11	12/Dec/11	12/Dec/11	14/Dec/11
Lab report ID		11V560614	11V559211	11V559211	11V559211	11V559248	11V559248	11V559211	11V559211	11V559211	11V559248
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		4.5 – 5	1 – 1.5	0.5 – 1	1.5 – 2	0.5 – 1	1.5 – 2	0.5 – 1	0.5 – 1	1.5 – 2	0.5 – 1
Aluminum		-	-	-	-	-	-	-	-	-	-
Antimony		20	0.63	0.18	0.30	0.38	0.34	0.49	0.42	0.51	0.52
Arsenic	15	5.4	2.4	2.2	3.2	2.8	3.0	4.5	5.1	4.2	2.8
Barium	400	149.0	42.1	54.4	166.0	58.0	153.0	98.5	119.0	136.0	110.0
Beryllium	4	0.50	0.16	0.14	0.51	0.18	0.43	0.38	0.52	0.47	0.31
Boron	-	0.2	0.1	1.8	0.5	0.1	0.9	0.2	0.2	0.2	0.5
Cadmium	1.5	0.31	0.10	0.09	0.20	0.12	0.50	0.09	0.09	0.25	0.13
Calcium	-	-	-	-	-	-	-	-	-	-	-
Chromium	60	46	26	27	33	28	40	39	50	53	38
Cobalt	50	10.5	6.1	5.9	3.9	7.1	3.8	11.6	13.5	9.6	5.1
Copper	90	33.9	11.7	15.0	18.2	16.8	15.3	18.4	20.8	31.4	17.1
Iron	-	-	-	-	-	-	-	-	-	-	-
Lead	100	10.30	2.14	5.29	13.10	3.23	16.60	6.54	8.13	7.86	11.40
Magnesium	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	-	-	-	-	-	-	-	-	-	-
Mercury	15	0.06	0.02	0.03	0.08	0.03	0.07	0.04	0.04	0.06	0.06
Molybdenum	10	1.78	0.52	1.19	0.68	0.57	0.61	0.51	0.85	0.85	0.70
Nickel	100	35.4	24.2	24.0	18.8	29.5	18.1	32.0	36.5	38.1	18.9
Selenium	3	1.0	0.2	0.2	0.6	0.2	0.8	0.4	0.6	0.5	0.3
Silver	20	0.10	<0.05	<0.05	0.12	<0.05	0.10	<0.05	<0.05	0.10	0.08
Sodium	-	-	-	-	-	-	-	-	-	-	-
Strontium	-	-	-	-	-	-	-	-	-	-	-
Thallium	-	0.16	<0.05	<0.05	0.16	<0.05	0.19	0.10	0.13	0.12	0.14
Tin	50	1.19	0.15	0.45	1.22	0.33	2.50	0.38	0.43	0.43	0.66
Titanium	-	-	-	-	-	-	-	-	-	-	-
Uranium	-	2.15	0.25	0.28	1.06	0.33	1.11	0.75	0.94	1.12	0.79
Vanadium	200	61	37	37	39	41	41	59	68	62	48
Zinc	150	72	36	44	40	43	89	70	84	80	62

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 26
Soil Analytical Results Compared to CSR Schedule 7 - Metals

Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	9	19, 9	19, 9	7,32	7,32	9,16	16
Station ID		MV-11BH-09	MV-11BH-10M	MV-11BH-10M	S2	S3	SS-2	SS-9
Field label		MV-11BH-09-2	MV-11BH-10M-1	MV-11BH-10M-3	S2 Sediment	S3 Sediment	SS2	SS9
Duplicate ID								
Date		14/Dec/11	12/Dec/11	12/Dec/11	22/Jul/98	22/Jul/98	14/Sep/94	14/Sep/94
Lab report ID		11V559248	11V559211	11V559211	8073131-sedimen	8073131-sediment	E3921	E3921
Consultants		Franz	Franz	Franz	NEXT	NEXT	SRK	SRK
Depth (m)		1 – 1.5	0.75	1.5 – 2			0.2	0.2
Aluminum	-	-	-	-	20500	9120	-	-
Antimony	20	0.33	0.27	0.50	<10	<10	-	-
Arsenic	15	2.3	3.0	2.5	63	<10	7.02	3.33
Barium	400	107.0	51.8	135.0	192	68	60.8	43.8
Beryllium	4	0.30	0.18	0.39	<1	<1	-	-
Boron	-	0.4	0.4	0.3	86	20	-	-
Cadmium	1.5	0.09	0.11	0.21	<0.3	<0.3	<2.0	<2.0
Calcium	-	-	-	-	14200	4980	-	-
Chromium	60	36	21	55	58	37	20.7	23.3
Cobalt	50	5.4	7.1	9.3	16	9	5.7	6.5
Copper	90	14.8	14.2	22.2	92	22	24.7	19.2
Iron	-	-	-	-	129000	71600	-	-
Lead	100	9.03	3.13	9.00	67	<30	124	37
Magnesium	-	-	-	-	9680	8370	-	-
Manganese	-	-	-	-	2050	440	-	-
Mercury	15	0.05	0.03	0.05	0.09	0.03	0.031	0.024
Molybdenum	10	0.58	0.32	0.54	<4	<4	<4.0	<4.0
Nickel	100	19.6	26.8	34.6	35	34	14.7	23.4
Selenium	3	0.4	0.2	0.5	<3	<3	<0.10	<0.10
Silver	20	0.06	<0.05	0.07	<2	<2	<2.0	<2.0
Sodium	-	-	-	-	949	263	-	-
Strontium	-	-	-	-	75	30	-	-
Thallium	-	0.14	<0.05	0.14	-	-	-	-
Tin	50	0.49	0.22	0.55	<5	<5	<30	<30
Titanium	-	-	-	-	993	351	-	-
Uranium	-	0.73	0.28	0.95	-	-	-	-
Vanadium	200	44	41	58	78	40	-	-
Zinc	150	53	52	75	4270	250	98.5	69.9

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 27
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	6, 9	5, 9	9	9	19, 9	19, 9	16	16	32	32	32
Station ID			3-BH11	3-BH8	MV-11BH-07M	MV-11BH-07M	MV-11BH-10M	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MV-11BH-17M	MV-11BH-17M	MV-11BH-17M
Field label			BH11-2	BH8 8-1	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-10M-1	MV-11BH-10M-2	MV-11BH-14M-3	MV-11BH-14M-4	MV-11BH-17M-1	MV-11BH-17M-3	MV-11BH-17M
Duplicate ID												MV-DUP7	MV-11BH-17M-3
Date			20/Jul/98	17/Jul/98	14/Dec/11	14/Dec/11	12/Dec/11	12/Dec/11	14/Dec/11	14/Dec/11	16/Dec/11	16/Dec/11	16/Dec/11
Lab report ID			8073131-soil	8073131-soil	11V559248	11V559248	11V559211	11V559211	11V559248	11V559248	11V560293	11V560293	11V560293
Consultants			NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			1.5	0.6	1 – 1.5	2 – 3	0.75	1 – 1.5	1.5 – 2	2.25 – 3	0.5 – 1	1.5 – 2	1.5 – 2
Acenaphthene	0.28	-	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	320	-	<0.05	<0.05	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	32	-	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	10	10	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	0.02
Benzo[a]pyrene	72	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[b]fluoranthene	10	10	<0.05	<0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	0.02	<0.02	0.02
Benzo[ghi]perylene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	10	10	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	-	-	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo[a,h]anthracene	10	10	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	180	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05
Fluorene	0.25	-	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
High molecular weight PAHs	-	-	0.1	0.1	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	10	10	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Low molecular weight PAHs	-	-	<0.05	0.24	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	-	-	-	-	<0.01	<0.01	0.65	<0.01	<0.01	<0.01	0.02	<0.01	0.01
Naphthalene	0.013	50	<0.05	0.16	<0.01	<0.01	0.50	<0.01	<0.01	<0.01	0.02	<0.01	0.01
Phenanthrene	0.046	50	<0.05	0.08	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	0.03
Pyrene	100	100	<0.05	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	0.05	<0.02	0.03
Total PAHs	-	-	-	0.34	-	-	-	-	-	-	-	-	-
Total PAHs IACR (Calculated) - Calculated	1	-	0.727	0.727	0.569	0.569	0.590	0.569	0.569	0.569	0.60157062	0.569	0.57126759
Total PAHs TEQ (calculated) - Calculated	5.3	-	0.211	0.211	0.115	0.115	0.115	0.115	0.115	0.115	0.08	0.115	0.079

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)
 Bold indicates parameter exceeds CSR IL. (Current as of 13-November-2012)

Table 28
Soil Analytical Results Compared to CSR Schedule 7 - PAHs
Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	6, 9	5, 9	9	9	19, 9	19, 9	16	16	32	32	32	
Station ID		3-BH11	3-BH8	MV-11BH-07M	MV-11BH-07M	MV-11BH-10M	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MV-11BH-17M	MV-11BH-17M	MV-11BH-17M	
Field label		BH11-2	BH8 8-1	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-10M-1	MV-11BH-10M-2	MV-11BH-14M-3	MV-11BH-14M-4	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7	
Duplicate ID											MV-DUP7	MV-11BH-17M-3	
Date		20/Jul/98	17/Jul/98	14/Dec/11	14/Dec/11	12/Dec/11	12/Dec/11	14/Dec/11	14/Dec/11	16/Dec/11	16/Dec/11	16/Dec/11	
Lab report ID		8073131-soil	8073131-soil	11V559248	11V559248	11V559211	11V559211	11V559248	11V559248	11V560293	11V560293	11V560293	
Consultants		NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	
Depth (m)		1.5	0.6	1 – 1.5	2 – 3	0.75	1 – 1.5	1.5 – 2	2.25 – 3	0.5 – 1	1.5 – 2	1.5 – 2	
Acenaphthene		-	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene		-	<0.05	<0.05	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	-	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Benzo[a]anthracene	1	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	0.02	
Benzo[a]pyrene	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo[b]fluoranthene	1	<0.05	<0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	0.02	<0.02	0.02	
Benzo[ghi]perylene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	
Benzo[k]fluoranthene	1	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Chrysene	-	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Dibenzo[a,h]anthracene	1	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Fluoranthene	-	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	
Fluorene	-	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
High molecular weight PAHs	-	0.1	0.1	-	-	-	-	-	-	-	-	-	
Indeno[1,2,3-cd]pyrene	1	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Low molecular weight PAHs	-	<0.05	0.24	-	-	-	-	-	-	-	-	-	
2-Methylnaphthalene	-	-	-	<0.01	<0.01	0.65	<0.01	<0.01	<0.01	0.02	<0.01	0.01	
Naphthalene	5	<0.05	0.16	<0.01	<0.01	0.50	<0.01	<0.01	<0.01	0.02	<0.01	0.01	
Phenanthrene	5	<0.05	0.08	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	0.03	
Pyrene	10	<0.05	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	0.05	<0.02	0.03	
Total PAHs	-	-	0.34	-	-	-	-	-	-	-	-	-	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 29
Soil Analytical Results - Petroleum Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID	CCME IL (Fine, Surface)	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	9	9	6, 8, 9	6, 9	7, 9	4, 9	4, 5, 9	9	7, 8, 9	5, 9	5, 9	28,32	28,32
Station ID					S4	S5	3-BH10	3-BH11	3-BH29	3-BH30	3-BH31	3-BH5	3-BH7	3-BH8	3-BH8	MW07-9	MW07-9
Field label					S4 Sediment	S5 Sediment	BH 10-1 @ 3'	BH11-2	BH29 29-1 @ 2.5'	BH30 30-1A @ 2.5'	BH31 31-1 @ 2'	BH5-2 @ 5'	BH7 7-2 @ 5'	BH8 8-1	BH8 8-2 @ 4'	MW07-9-3	MW07-9-5
Duplicate ID																	
Date					22/Jul/98	22/Jul/98	20/Jul/98	20/Jul/98	21/Jul/98	21/Jul/98	22/Jul/98	17/Jul/98	17/Jul/98	17/Jul/98	17/Jul/98	15/Aug/07	15/Aug/07
Lab report ID							8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	80817021	80817021
Consultants							NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Hemmera	Hemmera
Depth (m)							0.9	1.5	0.76	0.76	0.6	1.5	1.5	0.6	0.6	1.7 – 2.286	2.667 – 3.048
Grain Type							fine	fine	fine	fine	coarse	coarse	fine	fine	fine		
EPH (C10-C19)	-	-	-	2000	1200	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
EPH (C19-C32)	-	-	-	5000	12000	400	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
LEPH	-	-	-	2000	-	-	-	<250	-	-	-	-	<250	-	-	-	-
HEPH	-	-	-	5000	-	-	-	<250	-	-	-	-	<250	-	-	-	-
VPH (VH6-10) minus BTEX	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	<100	<100
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (C6-C10) minus BTEX	170	240	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F2 (C10-C16)	230	260	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F3 (C16-C34)	2500	1700	5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F4 (C34-C50)	6600	3300	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Area ID	CCME IL (Fine, Surface)	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	6, 8, 9	3	9	9	19, 9	19, 9	16	16	32	32	32
Station ID					3-BH9	3-S1	MV-11BH-07M	MV-11BH-07M	MV-11BH-10M	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MV-11BH-17M	MV-11BH-17M	MV-11BH-17M
Field label					BH 9-2 @ 5'	S1 @ 0.5'	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-10M-1	MV-11BH-10M-2	MV-11BH-14M-3	MV-11BH-14M-4	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
Duplicate ID															MV-11BH-17M-3
Date					20/Jul/98	22/Jul/98	14/Dec/11	14/Dec/11	12/Dec/11	12/Dec/11	14/Dec/11	14/Dec/11	16/Dec/11	16/Dec/11	16/Dec/11
Lab report ID					8073131-soil	8073131-soil	11V559248	11V559248	11V559211	11V559211	11V559248	11V559248	11V560293	11V560293	11V560293
Consultants					NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)					1.5	0.15	1 – 1.5	2 – 3	0.75	1 – 1.5	1.5 – 2	2.25 – 3	0.5 – 1	1.5 – 2	1.5 – 2
Grain Type					fine	coarse	coarse	fine	coarse	coarse	coarse	fine	coarse	fine	fine
EPH (C10-C19)	-	-	-	2000	<250	-	113	139	-	-	-	-	-	-	-
EPH (C19-C32)	-	-	-	5000	<250	-	12800	1230	-	-	-	-	-	-	-
LEPH	-	-	-	2000	-	-	113	139	<25	<25	38	<25	<25	<25	<25
HEPH	-	-	-	5000	-	-	12800	1230	196	<25	162	338	41	56	49
VPH (VH6-10) minus BTEX	-	-	-	200	-	<10	<10	<10	-	-	<10	40	-	-	-
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	<10	<10	-	-	-
F1 (C6-C10) minus BTEX	170	240	170	-	-	-	-	-	-	-	<10	<10	-	-	-
F2 (C10-C16)	230	260	230	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10
F3 (C16-C34)	2500	1700	5000	-	-	-	-	-	522	<10	115	304	24	29	29
F4 (C34-C50)	6600	3300	10000	-	-	-	-	-	822	<10	87	164	27	25	21

Notes
All units in ug/g.
"." indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL (Fine, Surface). (Current as of 13-November-2012)
Bold indicates parameter exceeds CCME IL (Coarse, Surface). (Current as of 13-November-2012)
Underline indicates parameter exceeds CCME IL (Fine, Subsoil). (Current as of 13-November-2012)
Italic and dark blue text indicates parameter exceeds BC CSR IL (STRINGENT). (Current as of 13-November-2012)

Table 30
Soil Analytical Results Compared to CSR Schedule 7 - Petroleum Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	6, 8, 9	6, 9	7, 9	4, 9	4, 5, 9	9	7, 8, 9	5, 9	5, 9	6, 8, 9
Station ID		3-BH10	3-BH11	3-BH29	3-BH30	3-BH31	3-BH5	3-BH7	3-BH8	3-BH8	3-BH9
Field label		BH 10-1 @ 3'	BH11-2	BH29 29-1 @ 2.5'	BH30 30-1A @ 2.5'	BH31 31-1 @ 2'	BH5-2 @ 5'	BH7 7-2 @ 5'	BH8 8-1	BH8 8-2 @ 4'	BH 9-2 @ 5'
Duplicate ID											
Date		20/Jul/98	20/Jul/98	21/Jul/98	21/Jul/98	22/Jul/98	17/Jul/98	17/Jul/98	17/Jul/98	17/Jul/98	20/Jul/98
Lab report ID		8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)		0.9	1.5	0.76	0.76	0.6	1.5	1.5	0.6	0.6	1.5
EPH (C10-C19)		1000	<250	<250	<250	<250	<250	<250	<250	<250	<250
EPH (C19-C32)		1000	<250	<250	<250	<250	<250	<250	<250	<250	<250
LEPH	1000	-	<250	-	-	-	<250	-	-	-	
HEPH	1000	-	<250	-	-	-	<250	-	-	-	
VPH (VH6-10) minus BTEX	200	-	-	-	-	-	-	-	-	-	
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	
F1 (C6-C10) minus BTEX	-	-	-	-	-	-	-	-	-	-	
F2 (C10-C16)	-	-	-	-	-	-	-	-	-	-	
F3 (C16-C34)	-	-	-	-	-	-	-	-	-	-	
F4 (C34-C50)	-	-	-	-	-	-	-	-	-	-	

Area ID	BC CSR IL (Relocation to Non-Ag)	3	9	9	9	9	19, 9	19, 9	16	16	32
Station ID		3-S1	S4	S5	MV-11BH-07M	MV-11BH-07M	MV-11BH-10M	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MV-11BH-17M
Field label		S1 @ 0.5'	S4 Sediment	S5 Sediment	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-10M-1	MV-11BH-10M-2	MV-11BH-14M-3	MV-11BH-14M-4	MV-11BH-17M-1
Duplicate ID											
Date		22/Jul/98	22/Jul/98	22/Jul/98	14/Dec/11	14/Dec/11	12/Dec/11	12/Dec/11	14/Dec/11	14/Dec/11	16/Dec/11
Lab report ID		8073131-soil	8073131-sedimen	8073131-sedimen	11V559248	11V559248	11V559211	11V559211	11V559248	11V559248	11V560293
Consultants		NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		0.15			1 - 1.5	2 - 3	0.75	1 - 1.5	1.5 - 2	2.25 - 3	0.5 - 1
EPH (C10-C19)		1000	-	1200	<250	113	139	-	-	-	-
EPH (C19-C32)		1000	-	12000	400	12800	1230	-	-	-	-
LEPH	1000	-	-	-	113	139	<25	<25	38	<25	
HEPH	1000	-	-	-	12800	1230	196	<25	162	338	
VPH (VH6-10) minus BTEX	200	<10	-	-	<10	<10	-	<10	40	-	
F1 (C6-C10)	-	-	-	-	-	-	-	<10	<10	-	
F1 (C6-C10) minus BTEX	-	-	-	-	-	-	-	<10	<10	-	
F2 (C10-C16)	-	-	-	-	-	-	<10	<10	<10	<10	
F3 (C16-C34)	-	-	-	-	-	-	522	<10	115	304	
F4 (C34-C50)	-	-	-	-	-	-	822	<10	87	164	

Area ID	BC CSR IL (Relocation to Non-Ag)	32	32	28,32	28,32
Station ID		MV-11BH-17M	MV-11BH-17M	MW07-9	MW07-9
Field label		MV-11BH-17M-3	MV-DUP7	MW07-9-3	MW07-9-5
Duplicate ID		MV-DUP7	MV-11BH-17M-3		
Date		16/Dec/11	16/Dec/11	15/Aug/07	15/Aug/07
Lab report ID		11V560293	11V560293	80817021	80817021
Consultants		Franz	Franz	Hemmera	Hemmera
Depth (m)		1.5 - 2	1.5 - 2	1.7 - 2.286	2.667 - 3.048
EPH (C10-C19)		1000	-	-	-
EPH (C19-C32)		1000	-	<250	<250
LEPH	1000	<25	<25	<250	
HEPH	1000	56	49	-	
VPH (VH6-10) minus BTEX	200	-	-	<100	
F1 (C6-C10)	-	-	-	-	
F1 (C6-C10) minus BTEX	-	-	-	-	
F2 (C10-C16)	-	<10	<10	-	
F3 (C16-C34)	-	29	29	-	
F4 (C34-C50)	-	25	21	-	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 31
Soil Analytical Results - Chlorophenols/Phenols
Lot 3, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	7	7	7, 9	7	7	7	7	7	7, 9	7	7, 9	9	28	7,28	
Station ID			3-BH-1-SRK	3-BH-4-SRK	3-BH12	3-BH14	3-BH16	3-BH18	3-BH20	3-BH22	3-BH23	3-BH25	3-BH27	3-BH29	3-BH5	3-BH13	SS-2
Field label			BH-1 S-1	BH-4 S-1	BH12-1 @ 2.0'	BH14-1 @ 1.5'	BH16-2 @ 5'	BH18-1 @ 2.5'	BH20-1 @ 1.5'	BH22 22-1 @ 1.5'	BH24 24-1 @ 2.5'	BH25 25-1 @ 1.5'	BH27 27-1 @ 2'	BH29 29-1 @ 2.5'	BH5-2 @ 5'	BH13-2 @ 5.0'	SS2
Duplicate ID																	
Date			14/Sep/94	14/Sep/94	20/Jul/98	24/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	21/Jul/98	17/Jul/98	20/Jul/98	14/Sep/94
Lab report ID			E3909	E3909	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	E3921
Consultants			SRK	SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	SRK
Depth (m)			0.3	0.3	0.6	0.46	1.5	0.76	0.46	0.46	0.76	0.46	0.6	0.76	1.5	1.5	0.2
pH	6 to 8	-	-	-	6.6	6.3	7.5	6.8	6.8	6.3	5.2	6.2	6.5	5.9	7.7	6.9	-
o-Cresol	-	10	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-	-	-	<0.2	-	-	-
p-Cresol	-	10	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-	-	-	<0.2	-	-	-
2,4-Dimethylphenol	10	10	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-	-	-	<0.2	-	-	-
2,4-Dinitrophenol	10	10	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	<0.5	-	-	-
2-Methyl 4,6-dinitrophenol	10	10	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	<0.5	-	-	-
2-Nitrophenol	10	10	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	<0.5	-	-	-
4-Nitrophenol	10	10	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	-	-	<0.5	-	-	-
Pentachlorophenol	7.6	0.15 to 50	<0.02	0.22	<0.005	<0.005	<0.005	0.02	<0.005	<0.005	<0.005	0.04	0.1	0.01	<0.005	<0.005	<0.020
Phenol	3.8	10	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-	-	-	<0.2	-	-	-
2,3,4,5-Tetrachlorophenol	5	5	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020
2,3,4,6-Tetrachlorophenol	5	5	<0.02	0.13	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	0.03	0.05	0.01	<0.005	<0.005	<0.020
2,3,5,6-Tetrachlorophenol	5	5	<0.02	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	<0.020
2,4,6-Tribromophenol	-	-	-	-	90	90	96	88	103	96	95	82	87	88	89	101	-
2,3,4-Trichlorophenol	5	5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.020
2,3,5-Trichlorophenol	5	5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.020
2,3,6-Trichlorophenol	5	5	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
2,4,5-Trichlorophenol	5	5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.020
2,4,6-Trichlorophenol	5	5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.020
3,4,5-Trichlorophenol	5	5	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-

Notes
All units in ug/g.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 13-November-2012)

Table 32
Soil Analytical Results Compared to CSR Schedule 7 - Phenols
Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	7	7	7, 9	7	7	7	7	7	7, 9	
Station ID		3-BH-1-SRK	3-BH-4-SRK	3-BH12	3-BH14	3-BH16	3-BH18	3-BH20	3-BH22	3-BH23	3-BH25
Field label		BH-1 S-1	BH-4 S-1	BH12-1 @ 2.0'	BH14-1 @ 1.5'	BH16-2 @ 5'	BH18-1 @ 2.5'	BH20-1 @ 1.5'	BH22 22-1 @ 1.5'	BH24 24-1 @ 2.5'	BH25 25-1 @ 1.5'
Duplicate ID											
Date		14/Sep/94	14/Sep/94	20/Jul/98	24/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98
Lab report ID		E3909	E3909	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil	8073131-soil
Consultants		SRK	SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)		0.3	0.3	0.6	0.46	1.5	0.76	0.46	0.46	0.76	0.46
o-Cresol		1	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-
p-Cresol		1	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-
2,4-Dimethylphenol	1	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-	
2,4-Dinitrophenol	1	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	
2-Methyl 4,6-dinitrophenol	1	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	
2-Nitrophenol	1	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	
4-Nitrophenol	1	-	-	<0.5	<0.5	<0.5	-	<0.5	-	-	
Pentachlorophenol	0.15	<0.02	0.22	<0.005	<0.005	<0.005	0.02	<0.005	<0.005	<0.005	
Phenol	1	-	-	<0.2	<0.2	<0.2	-	<0.2	-	-	
2,3,4,5-Tetrachlorophenol	0.5	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,3,4,6-Tetrachlorophenol	0.5	<0.02	0.13	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	
2,3,5,6-Tetrachlorophenol	0.5	<0.02	<0.02	-	-	-	-	-	-	-	
2,4,6-Tribromophenol	-	-	-	90	90	96	88	103	96	95	
2,3,4-Trichlorophenol	0.5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,3,5-Trichlorophenol	0.5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,3,6-Trichlorophenol	0.5	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,4,5-Trichlorophenol	0.5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,4,6-Trichlorophenol	0.5	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
3,4,5-Trichlorophenol	0.5	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

Area ID	BC CSR IL (Relocation to Non-Ag)	7	7, 9	9	28	
Station ID		3-BH27	3-BH29	3-BH5	3-BH13	
Field label		BH27 27-1 @ 2'	BH29 29-1 @ 2.5'	BH5-2 @ 5'	BH13-2 @ 5.0'	
Duplicate ID						
Date		20/Jul/98	21/Jul/98	17/Jul/98	20/Jul/98	
Lab report ID		8073131-soil	8073131-soil	8073131-soil	8073131-soil	
Consultants		NEXT	NEXT	NEXT	NEXT	
Depth (m)		0.6	0.76	1.5	1.5	
o-Cresol		1	-	-	<0.2	-
p-Cresol		1	-	-	<0.2	-
2,4-Dimethylphenol	1	-	-	<0.2	-	
2,4-Dinitrophenol	1	-	-	<0.5	-	
2-Methyl 4,6-dinitrophenol	1	-	-	<0.5	-	
2-Nitrophenol	1	-	-	<0.5	-	
4-Nitrophenol	1	-	-	<0.5	-	
Pentachlorophenol	0.15	0.1	0.01	<0.005	<0.005	
Phenol	1	-	-	<0.2	-	
2,3,4,5-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	
2,3,4,6-Tetrachlorophenol	0.5	0.05	0.01	<0.005	<0.005	
2,3,5,6-Tetrachlorophenol	0.5	-	-	-	-	
2,4,6-Tribromophenol	-	87	88	89	101	
2,3,4-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	
2,3,5-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	
2,3,6-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	
2,4,5-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	
2,4,6-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	
3,4,5-Trichlorophenol	0.5	<0.01	<0.01	<0.01	<0.01	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 33
Soil Analytical Results - Volatile Organic Compounds
Lot 3, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	3	9	9	16	16
Station ID			3-S1	MV-11BH-07M	MV-11BH-07M	MV-11BH-14M	MV-11BH-14M
Field label			S1 @ 0.5'	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-14M-3	MV-11BH-14M-4
Duplicate ID							
Date			22/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID			8073131-soil	11V559248	11V559248	11V559248	11V559248
Consultants			NEXT	Franz	Franz	Franz	Franz
Depth (m)			0.15	1 – 1.5	2 – 3	1.5 – 2	2.25 – 3
Bromodichloromethane	-	18	<0.01	-	-	-	-
Bromoform	-	2200	<0.01	-	-	-	-
Bromomethane	-	13	<0.04	-	-	-	-
Carbon tetrachloride	50	50	<0.01	-	-	-	-
Chlorobenzene	10	10	<0.01	-	-	-	-
Chlorodibromomethane	-	26	<0.01	-	-	-	-
Chloroethane	-	65	<0.02	-	-	-	-
Chloroform	50	50	<0.01	-	-	-	-
Chloromethane	-	160	<0.04	-	-	-	-
Dibromomethane	-	230	<0.01	-	-	-	-
1,2-Dichlorobenzene	10	10	<0.01	-	-	-	-
1,3-Dichlorobenzene	10	10	<0.01	-	-	-	-
1,4-Dichlorobenzene	10	10	<0.01	-	-	-	-
Dichlorodifluoromethane	-	310	<0.02	-	-	-	-
1,1-Dichloroethane	50	50	<0.01	-	-	-	-
1,2-Dichloroethane	50	50	<0.02	-	-	-	-
1,1-Dichloroethene	50	50	<0.01	-	-	-	-
cis-1,2-Dichloroethene	-	50	<0.01	-	-	-	-
trans-1,2-Dichloroethene	-	50	<0.01	-	-	-	-
Dichloromethane	50	50	<0.3	-	-	-	-
1,2-Dichloropropane	50	50	<0.01	-	-	-	-
cis-1,3-Dichloropropene	-	50	<0.01	-	-	-	-
trans-1,3-Dichloropropene	-	50	<0.01	-	-	-	-
Ethylene dibromide	-	0.73	<0.01	-	-	-	-
2-Hexanone	-	-	<0.5	-	-	-	-
Methyl ethyl ketone	-	110000	<0.5	-	-	-	-
Methyl isobutyl ketone	-	47000	<0.2	-	-	-	-
Methyl tert-butyl ether	-	700	-	<0.1	<0.1	<0.1	<0.1
1,1,1,2-Tetrachloroethane	50	9.3	<0.01	-	-	-	-
1,1,1-Trichloroethane	50	50	<0.01	-	-	-	-
1,1,2-Trichloroethane	50	50	<0.01	-	-	-	-
Trichlorofluoromethane	-	2000	<0.01	-	-	-	-
Vinyl chloride	-	7.5	<0.02	-	-	-	-

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)

Bold indicates parameter exceeds BC CSR IL. (Current as of 13-November-2012)

Table 34
Soil Analytical Results Compared to CSR Schedule 7 - VOCs
Lot 3, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	3	9	9	16	16
Station ID		3-S1	MV-11BH-07M	MV-11BH-07M	MV-11BH-14M	MV-11BH-14M
Field label		S1 @ 0.5'	MV-11BH-07M-2	MV-11BH-07M-4	MV-11BH-14M-3	MV-11BH-14M-4
Duplicate ID						
Date		22/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID		8073131-soil	11V559248	11V559248	11V559248	11V559248
Consultants		NEXT				
Depth (m)		0.15	1 – 1.5	2 – 3	1.5 – 2	2.25 – 3
Bromodichloromethane	-	<0.01	-	-	-	-
Bromoform	-	<0.01	-	-	-	-
Bromomethane	-	<0.04	-	-	-	-
Carbon tetrachloride	5	<0.01	-	-	-	-
Chlorobenzene	1	<0.01	-	-	-	-
Chlorodibromomethane	-	<0.01	-	-	-	-
Chloroethane	-	<0.02	-	-	-	-
Chloroform	5	<0.01	-	-	-	-
Chloromethane	-	<0.04	-	-	-	-
Dibromomethane	-	<0.01	-	-	-	-
1,2-Dichlorobenzene	1	<0.01	-	-	-	-
1,3-Dichlorobenzene	1	<0.01	-	-	-	-
1,4-Dichlorobenzene	1	<0.01	-	-	-	-
Dichlorodifluoromethane	-	<0.02	-	-	-	-
1,1-Dichloroethane	5	<0.01	-	-	-	-
1,2-Dichloroethane	5	<0.02	-	-	-	-
1,1-Dichloroethene	5	<0.01	-	-	-	-
cis-1,2-Dichloroethene	-	<0.01	-	-	-	-
trans-1,2-Dichloroethene	-	<0.01	-	-	-	-
Dichloromethane	5	<0.3	-	-	-	-
1,2-Dichloropropane	5	<0.01	-	-	-	-
cis-1,3-Dichloropropene	5	<0.01	-	-	-	-
trans-1,3-Dichloropropene	5	<0.01	-	-	-	-
Ethylene dibromide	-	<0.01	-	-	-	-
2-Hexanone	-	<0.5	-	-	-	-
Methyl ethyl ketone	-	<0.5	-	-	-	-
Methyl isobutyl ketone	-	<0.2	-	-	-	-
Methyl tert-butyl ether	-	-	<0.1	<0.1	<0.1	<0.1
1,1,2,2-Tetrachloroethane	5	<0.01	-	-	-	-
1,1,1-Trichloroethane	5	<0.01	-	-	-	-
1,1,2-Trichloroethane	5	<0.01	-	-	-	-
Trichlorofluoromethane	-	<0.01	-	-	-	-
Vinyl chloride	-	<0.02	-	-	-	-

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 15-November-2012)

Table 35
Groundwater Analytical Results - Monocyclic Aromatic Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	6, 8, 9	6, 8, 9	6, 9	7	4, 5, 9	4, 5, 9	19, 9	16	16	28,32	28,32	32
Station ID				3-BH10	3-BH10	3-BH11	3-BH14	3-BH31	3-BH31	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MW07-9	MW07-9	MV-11BH-17M
Field label				3-BH10	MV-GWDUP5	3-BH11	BH14 W-I	BH31 W-1	3-BH31	MV-11BH-10M	MV-11BH-14M	MV-GWDUP3	MW07-9	MW07-9	MV-11BH-17M
Duplicate ID				MV-GWDUP5	3-BH10						MV-GWDUP3	MV-11BH-14M			
Date				14/Feb/12	14/Feb/12	14/Feb/12	21/Mar/98	5/Aug/98	9/Feb/12	7/Feb/12	7/Feb/12	7/Feb/12	16/Aug/07	3/Feb/12	7/Feb/12
Lab report ID				12V574477	12V574477	12V574477	O08.213	8081353	12V573478	12V572681	12V572681	12V572681	80817037	12V571615	12V572681
Consultants				Franz	Franz	Franz	NEXT	NEXT	Franz	Franz	Franz	Franz	Hemmera	Hemmera	Franz
Screen depth (m)				0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	1.52 – 3.05	1.22 – 2.74	1.22 – 2.74	0.8 – 2.3	0.8 – 2.3	0.91 – 2.44
Benzene	200	5	5	<0.5	<0.5	<0.5	<0.4	<0.01	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5
Ethylbenzene	11000	2.4	2.4	<0.5	<0.5	<0.5	<0.4	<0.01	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5
Styrene	72	-	720	<0.5	<0.5	<0.5	<0.4	<0.1	<0.5	-	<0.5	<0.5	-	<0.5	-
Toluene	83	24	24	<0.5	<0.5	<0.5	<0.4	<0.01	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5
Xylenes (total)	18000	300	300	<0.5	<0.5	<0.5	-	<0.01	<0.5	<0.5	<0.5	<0.5	<0.1	-	<0.5

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 13-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 36
Groundwater Analytical Results - Dissolved Metals
Lot 3, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7	7	9	4, 5, 9	4, 5, 9	7, 8, 9	9	19, 9
Station ID				3-BH14	3-BH16	3-BH3	3-BH31	3-BH31	3-BH7	MV-11BH-07M	MV-11BH-10M
Field label				BH14 W-I	BH16 W-1	BH3 W-1	BH31 W-1	3-BH31	BH7 W-1	MV-11BH-07M	MV-11BH-10M
Duplicate ID											
Date				21/Mar/98	21/Mar/98	21/Mar/98	5/Aug/98	10/Feb/12	21/Mar/98	6/Feb/12	7/Feb/12
Lab report ID				8073131-water	8073131-water	8073131-water	8081353	12V573781	8073131-water	12V572231	12V572681
Consultants				NEXT	NEXT	NEXT	NEXT	Franz	NEXT	Franz	Franz
Screen depth (m)	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	1.52 – 3.05	1.52 – 3.05			
pH	6.5 - 8.7	6.5 - 8.5		6.97	6.85	6.94	6.83	6.54	6.61	6.68	6.58
Hardness (CaCO3) (mg/L)	-	-	-	253000	202000	155000	206000	176000	242000	180000	296000
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	1580	1190	260	120	11	350	26	21
Dissolved Antimony	1600	6	6	<1	<1	<1	<1	0.06	<1	0.12	0.18
Dissolved Arsenic	5	10	10	5	10	9	29	13.9	6	9.4	4.8
Dissolved Barium	500	1000	1000	1980	2110	200	970	84.8	410	187.0	251.0
Dissolved Beryllium	5.3	-	53	<1	<1	<1	<1	<0.01	<1	0.02	0.03
Dissolved Boron	5000	5000	5000	310	400	230	190	28	360	73	326
Dissolved Cadmium	0.017	5	0.6	<0.2	<0.2	<0.2	<0.2	0.02	<0.2	0.24	0.41
Dissolved Calcium	-	-	-	67600	49500	50700	72000	49900	71800	59200	94600
Dissolved Chromium	8.9	50	10	7	3	10	2	1.7	10	2.5	2.5
Dissolved Cobalt	-	-	40	13	<1	3	3	0.49	22	25.70	20.90
Dissolved Copper	2	1000	20	14	8	3	3	0.5	2	1.0	2.4
Dissolved Iron	300	300	6500	26700	36600	17800	22700	36600	26700	23300	12100
Dissolved Lead	2	10	10	3	1	<1	<1	0.15	1	0.21	0.18
Dissolved Lithium	-	-	730	-	-	-	-	1.1	-	6.6	7.3
Dissolved Magnesium	-	-	100000	20300	19000	6960	6410	12400	15200	7830	14500
Dissolved Manganese	-	50	550	2120	2100	1420	1580	1310	3490	3330	4710
Dissolved Mercury	0.016	1	1	<50	<50	<50	<50	<0.003	<50	<0.003	0.007
Dissolved Molybdenum	73	-	250	<1	2	3	8	0.53	<1	30.50	9.78
Dissolved Nickel	83	-	83	21	7	7	9	1.6	26	29.2	17.8
Dissolved Selenium	1	10	10	<2	<2	<2	<2	0.4	<2	0.2	0.8
Silicon	-	-	-	22700	26200	22200	19900	-	15100	-	-
Dissolved Silver	0.1	-	15	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.01	<0.01
Dissolved Sodium	-	200000	200000	21000	24900	27400	18000	8980	34600	89400	88700
Strontium	-	-	22000	380	370	380	280	-	540	-	-
Tellurium	-	-	-	<1	<1	<1	<1	-	<1	-	-
Dissolved Thallium	0.8	-	3	<0.1	<0.1	<0.1	<0.1	0.031	<0.1	0.159	0.254
Thorium	-	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-
Tin	-	-	22000	<1	<1	<1	<1	-	<1	-	-
Dissolved Titanium	100	-	1000	97	57	18	10	62.5	20	74.0	127.0
Dissolved Uranium	300	20	20	1	0.5	<0.5	<0.5	0.02	0.8	3.59	4.91
Dissolved Vanadium	-	-	-	16	7	6	3	1.3	15	2.3	0.8
Dissolved Zinc	10	5000	100	800	930	17	360	7	19	11	16
Dissolved Zirconium	-	-	-	3	6	2	3	-	5	-	-

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 13-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 37
Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7	6, 8, 9	6, 8, 9	6, 8, 9	6, 9	7	4, 5, 9	4, 5, 9	9	7, 8, 9
Station ID				OW5	3-BH10	3-BH10	3-BH10	3-BH11	3-BH14	3-BH31	3-BH31	3-BH5	3-BH7
Field label				OW5	BH10 W-1	3-BH10	MV-GWDUP5	BH11 W-1	BH14 W-1	BH31 W-1	3-BH31	BH5 W-1	BH7 W-1
Duplicate ID						MV-GWDUP5	3-BH10						
Date				10/Feb/12	21/Mar/98	14/Feb/12	14/Feb/12	21/Mar/98	21/Mar/98	5/Aug/98	9/Feb/12	21/Mar/98	21/Mar/98
Lab report ID				12V573781	8073131-water	12V574477	12V574477	8073131-water	008.213	8081353	12V573478	8073131-water	8073131-water
Consultants				Franz	NEXT	Franz	Franz	NEXT	NEXT	NEXT	Franz	NEXT	NEXT
Screen depth (m)					0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6
Acenaphthene	5.8	-	60	<0.05	<0.1	<0.05	<0.05	<0.1	<0.01	<0.1	<0.05	<0.1	<0.1
Acenaphthylene	46	-	-	<0.05	<0.1	<0.05	<0.05	<0.1	-	<0.1	<0.05	<0.1	<0.1
Acridine	0.05	-	0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	0.012	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Benzo[a]anthracene	0.018	-	1	<0.05	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
Benzo[a]pyrene	0.015	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[b]fluoranthene	-	-	-	<0.05	<0.01	<0.05	<0.05	<0.01	-	<0.01	<0.05	<0.01	<0.01
Benzo[ghi]perylene	0.17	-	-	<0.05	<0.01	<0.05	<0.05	<0.01	-	<0.01	<0.05	<0.01	<0.01
Benzo[k]fluoranthene	0.48	-	-	<0.05	<0.01	<0.05	<0.05	<0.01	-	<0.01	<0.05	<0.01	<0.01
Chrysene	1.4	-	1	<0.05	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
Dibenzo[a,h]anthracene	0.26	-	-	<0.05	<0.01	<0.05	<0.05	<0.01	-	<0.01	<0.05	<0.01	<0.01
Fluoranthene	0.04	-	2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Fluorene	3	-	120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
High molecular weight PAHs	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	0.21	-	-	<0.05	<0.01	<0.05	<0.05	<0.01	-	<0.01	<0.05	<0.01	<0.01
Low molecular weight PAHs	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1.1	-	10	<0.05	<0.3	<0.05	<0.05	<0.3	<0.05	<0.3	<0.05	<0.3	<0.3
Phenanthrene	0.4	-	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05
Pyrene	0.025	-	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
Quinoline	3.4	-	34	<0.1	-	<0.1	<0.1	-	<0.05	-	<0.1	-	-
Total PAHs	-	-	-	-	-	-	-	-	-	-	-	-	-

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7	7	9	19, 9	16	16	32
Station ID				MW3-20	MW3-27	MV-11BH-07M	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MV-11BH-17M
Field label				MW3-20	MW3-27	MV-11BH-07M	MV-11BH-10M	MV-11BH-14M	MV-GWDUP3	MV-11BH-17M
Duplicate ID								MV-GWDUP3	MV-11BH-14M	
Date				18/Nov/09	16/Apr/09	6/Feb/12	7/Feb/12	7/Feb/12	7/Feb/12	7/Feb/12
Lab report ID				101119170	0416147, 405-006.03 GV	12V572231	12V572681	12V572681	12V572681	12V572681
Consultants				Hemmera	Hemmera	Franz	Franz	Franz	Franz	Franz
Screen depth (m)						1.52 – 3.05	1.52 – 3.05	1.22 – 2.74	1.22 – 2.74	0.91 – 2.44
Acenaphthene	5.8	-	60	<100	<0.1	<0.05	<0.05	<0.05	<0.05	0.05
Acenaphthylene	46	-	-	<100	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Acridine	0.05	-	0.5	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	0.012	-	1	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[a]anthracene	0.018	-	1	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[a]pyrene	0.015	0.01	0.01	<10	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Benzo[b]fluoranthene	-	-	-	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[ghi]perylene	0.17	-	-	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	0.48	-	-	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	1.4	-	1	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo[a,h]anthracene	0.26	-	-	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	0.04	-	2	<40	<0.4	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	3	-	120	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
High molecular weight PAHs	-	-	-	-	<1E-10	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	0.21	-	-	<10	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Low molecular weight PAHs	-	-	-	-	<1E-10	-	-	-	-	-
Naphthalene	1.1	-	10	<300	<0.3	<0.05	<0.05	<0.05	<0.05	0.10
Phenanthrene	0.4	-	3	<50	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
Pyrene	0.025	-	0.2	<20	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
Quinoline	3.4	-	34	<500	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs	-	-	-	-	<1E-10	-	-	-	-	-

Notes
All units in ug/L.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)
Bold indicates parameter exceeds Candian DW Quality. (Current as of 13-November-2012)
Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 38
Groundwater Analytical Results - Petroleum Hydrocarbons
Lot 3, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7	6, 8, 9	6, 8, 9	6, 8, 9	6, 9	6, 9	7	4, 5, 9	4, 5, 9	9
Station ID				OW5	3-BH10	3-BH10	3-BH10	3-BH11	3-BH11	3-BH14	3-BH31	3-BH31	3-BH5
Field label				OW5	BH10 W-1	3-BH10	MV-GWDUP5	BH11 W-1	3-BH11	BH14 W-I	BH31 W-1	3-BH31	BH5 W-1
Duplicate ID						MV-GWDUP5	3-BH10						
Date				10/Feb/12	21/Mar/98	14/Feb/12	14/Feb/12	21/Mar/98	14/Feb/12	21/Mar/98	5/Aug/98	9/Feb/12	21/Mar/98
Lab report ID				12V573781	8073131-water	12V574477	12V574477	8073131-water	12V574477	O08.213	8081353	12V573478	8073131-water
Consultants				Franz	NEXT	Franz	Franz	NEXT	Franz	NEXT	NEXT	Franz	NEXT
Screen depth (m)					0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6
EPH (C10-C19)	-	-	5000	<100	<500	<100	<100	<500	-	-	<0.5	<100	<500
EPH (C19-C32)	-	-	-	<100	<500	120	120	<500	-	-	<0.5	<100	<500
LEPH	-	-	500	<100	<500	<100	<100	<500	-	<80	<0.5	<100	<500
HEPH	-	-	-	<100	<500	120	120	<500	-	<80	<0.5	<100	<500
VH C6-C10	-	-	15000	-	-	<100	<100	-	<100	<300	-	<100	-
VPH (VH6-10) minus BTEX	-	-	1500	-	-	<100	<100	-	<100	<300	<0.01	<100	-
F1 (C6-C10)	-	-	-	-	-	<100	<100	-	<100	-	-	<100	-
F1 (C6-C10) minus BTEX	9100	-	-	-	-	<100	<100	-	<100	-	-	<100	-
F2 (C10-C16)	1300	-	-	<100	-	<100	<100	-	-	-	-	<100	-
F3 (C16-C34)	-	-	-	<100	-	<100	<100	-	-	-	-	<100	-
F4 (C34-C50)	-	-	-	<100	-	<100	<100	-	-	-	-	<100	-

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7, 8, 9	7	7	9	19, 9	16	16	28,32	28,32	32
Station ID				3-BH7	MW3-20	MW3-27	MV-11BH-07M	MV-11BH-10M	MV-11BH-14M	MV-11BH-14M	MV-11BH-14M	MW07-9	MW07-9
Field label				BH7 W-1	MW3-20	MW3-27	MV-11BH-07M	MV-11BH-10M	MV-11BH-14M	MV-GWDUP3	MW07-9	MW07-9	MV-11BH-17M
Duplicate ID									MV-GWDUP3	MV-11BH-14M			
Date				21/Mar/98	18/Nov/09	16/Apr/09	6/Feb/12	7/Feb/12	7/Feb/12	7/Feb/12	16/Aug/07	3/Feb/12	7/Feb/12
Lab report ID				8073131-water	101119170	100416147, 405-006.03. GW	12V572231	12V572681	12V572681	12V572681	80817037	12V571615	12V572681
Consultants				NEXT	Hemmera	Hemmera	Franz	Franz	Franz	Franz	Hemmera	Hemmera	Franz
Screen depth (m)				0.6 – 3.6	-	-	1.52 – 3.05	1.52 – 3.05	1.22 – 2.74	1.22 – 2.74	0.8 – 2.3	0.8 – 2.3	0.91 – 2.44
EPH (C10-C19)	-	-	5000	<500	-	<250	160	100	<100	<100	<250	-	<100
EPH (C19-C32)	-	-	-	<500	-	<250	580	120	<100	<100	<250	<100	110
LEPH	-	-	500	<500	<250	<250	160	100	<100	<100	-	-	<100
HEPH	-	-	-	<500	<250	<250	580	120	<100	<100	-	-	110
VH C6-C10	-	-	15000	-	-	-	-	-	<100	<100	<100	<100	-
VPH (VH6-10) minus BTEX	-	-	1500	-	-	-	-	-	<100	<100	<100	<100	-
F1 (C6-C10)	-	-	-	-	-	-	-	-	<100	<100	-	-	-
F1 (C6-C10) minus BTEX	9100	-	-	-	-	-	-	-	<100	<100	-	-	-
F2 (C10-C16)	1300	-	-	-	-	-	-	<100	<100	<100	-	-	<100
F3 (C16-C34)	-	-	-	-	-	-	-	<100	<100	<100	-	-	<100
F4 (C34-C50)	-	-	-	-	-	-	-	<100	<100	<100	-	-	<100

Notes

All units in ug/L.

“-” indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)

Bold indicates parameter exceeds Canadian DW Quality. (Current as of 13-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 39
Groundwater Analytical Results - Phenols/Chlorophenols
Lot 3, Surrey-Brownsville Site

Area ID	7	7	7	7	7, 9	7	7	7	7	7	7		
Station ID	OW5	OW5	3-BH-1-SRK	3-BH-6-SRK	3-BH12	3-BH14	3-BH20	3-BH20	3-BH20	3-BH20	3-BH24		
Field label	OW-5 W-1	OW5	BH-1 W-1	BH-6 W-1	BH12 W-1	BH14 W-1	BH20 W-1	20 Lot 3	20 Lot 3	20 Lot 3	BH24 W-1		
Duplicate ID													
Date/Time	20/Sep/94	10/Feb/12	20/Sep/94	20/Sep/94	21/Mar/98	21/Mar/98	21/Mar/98	17/Dec/03	3/Nov/04	3/Nov/04	21/Mar/98		
Lab report ID	E4009	12V573781	E4009	E4009	8073131-water	8073131-water	8073131-water	2-51-935 [R]	2-51-935 (S-1), 2-51-935 (S-2)	2-51-935 (S-1), 2-51-935 (S-2)	8073131-water		
Consultants	SRK	Franz	SRK	SRK	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT		
Screen depth (m)	1 - 3.5	1 - 3.5	1 - 3.5	1 - 4	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6		
Area ID	7, 9	7	7	7	7, 9	7, 9	7, 9	7, 9	9	7			
Station ID	3-BH25	3-BH27	3-BH27	3-BH27	3-BH29	3-BH29	3-BH29	3-BH29	3-BH5	MW3-20			
Field label	BH25 W-1	BH27 W-1	27 Lot 3	27 Lot 3	BH29 W-1	29 Lot 3	29 Lot 3	29 Lot 3	BH5 W-1	MW3-20			
Duplicate ID													
Date/Time	21/Mar/98	21/Mar/98	17/Dec/03	3/Nov/04	21/Mar/98	17/Dec/03	3/Nov/04	14/Feb/12	21/Mar/98	28/Jul/08			
Lab report ID	8073131-water	8073131-water	2-51-935 [R]	2-51-935 (S-1), 2-51-935 (S-2)	8073131-water	2-51-935 [R]	2-51-935 (S-1), 2-51-935 (S-2)	12V574477	8073131-water	405-006.03_GW			
Consultants	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	NEXT	Hemmera			
Screen depth (m)	4.6 - 6.1	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6	0.6 - 3.6			
pH (pH units)	6.5 to 8.7	6.5 to 8.5	-	6.79	6.83	-	5.7	6.49	-	6.35	6.88	6.72	-
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	4400	-	0.1	-	-	-	-	-	-	-	-	-	-
o-Cresol	-	-	-	-	-	-	-	-	-	-	-	-	-
m+p-Cresol	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	0.2	0.3	0.3	-	-	-	-	-	-	8.0	-	-	-
2,6-Dichlorophenol	-	-	0.3	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	2100	-	730	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	150	-	-	-	-	-	-	-	-	-	-	-	-
Dinoseb	0.05	10	10	-	-	-	-	-	-	-	-	-	-
2-Methyl 4,6-dinitrophenol	-	-	3.7	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	0.5	30	1	<0.05	120	4.76	-	340	430	-	767.0	<0.05	0.1
Phenol	4	-	10	-	-	-	-	-	-	-	36	-	-
2,3,4,5-Tetrachlorophenol	-	-	1	<0.05	<0.05	-	-	0.08	-	-	189.0	<0.05	<0.05
2,3,4,6-Tetrachlorophenol	1	1	1	<0.05	97	-	-	390	-	-	613.0	<0.05	<0.05
2,3,5,6-Tetrachlorophenol	-	-	1	-	-	-	-	-	-	-	<0.5	-	<0.05
Tetrachlorophenols	-	-	1	-	-	10.7	-	-	830.73	-	-	-	<0.05
Total chlorinated phenols	-	-	-	-	-	-	-	-	-	-	-	-	0.31
2,4,6-Tribromophenol	-	-	-	61	-	-	-	-	-	-	-	99	-
2,3,4-Trichlorophenol	-	-	2	<0.1	<0.1	-	<0.5	<0.1	-	0.81	<0.5	<0.1	<0.1
2,3,5-Trichlorophenol	-	-	2	<0.1	<0.1	-	<0.5	<0.1	-	2.46	<0.5	<0.1	<0.1
2,3,6-Trichlorophenol	-	-	2	<0.1	<0.1	-	<0.5	<0.1	-	-	<0.5	<0.1	<0.1
2,4,5-Trichlorophenol	63	-	2	<0.1	1.01	-	<0.5	4.28	-	0.5	124.0	<0.1	<0.1
2,4,6-Trichlorophenol	18	2	2	<0.1	<0.1	-	<0.5	0.23	-	<0.5	<0.5	<0.1	<0.1
3,4,5-Trichlorophenol	-	-	2	<0.1	0.18	-	<0.5	0.79	-	<0.5	74.0	<0.1	0.21
Trichlorophenols	-	-	2	-	-	1.04	-	-	72.34	-	-	-	0.21

Notes
All units in ug/L, unless otherwise noted.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)
Bold indicates parameter exceeds Candian DW Quality. (Current as of 13-November-2012)
Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 39
Groundwater Analytical Results - Phenols/Chlorophenols
Lot 3, Surrey-Brownsville Site

Area ID	Station ID	Field label	Duplicate ID	Date/Time	Lab report ID	Consultants	Screen depth (m)	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7	7	7	7	7	7	7	7	7		
											MW3-20	MW3-20	MW3-20	MW3-20	MW3-20	MW3-27	MW3-27	MW3-27	MW3-27	MW3-27	MW3-27
												22/Oct/08	22/Jan/09	16/Apr/09	31/Aug/09	18/Nov/09	28/Jul/08	22/Oct/08	22/Jan/09	16/Apr/09	31/Aug/09
												405-006.03_GW	405-006.03_GW	100416147, 405-006.03_GW	405-006.03_GW	101119170, 405-006.03_GW	405-006.03_GW	405-006.03_GW	405-006.03_GW	100416147, 405-006.03_GW	405-006.03_GW
												Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera
pH (pH units)	6.5 to 8.7	6.5 to 8.5	-	-	-	-	-	-	-	-	6.87	-	-	-	-	-	-	-	-	6.3	
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorophenol	4400	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Cresol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
m+p-Cresol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dichlorophenol	0.2	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,6-Dichlorophenol	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dimethylphenol	2100	-	730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrophenol	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dinoseb	0.05	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methyl 4,6-dinitrophenol	-	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	0.5	30	1	0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	2.1	<0.05	<0.05	0.16	0.16	
Phenol	4	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,3,4,5-Tetrachlorophenol	-	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
2,3,4,6-Tetrachlorophenol	1	1	1	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.9	<0.05	<0.05	0.11	0.11	
2,3,5,6-Tetrachlorophenol	-	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Tetrachlorophenols	-	-	1	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.9	<0.05	<0.05	0.11	0.11	
Total chlorinated phenols	-	-	-	0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	4.5	<0.05	<0.05	0.27	0.27	
2,4,6-Tribromophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,3,4-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
2,3,5-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
2,3,6-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
2,4,5-Trichlorophenol	63	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	
2,4,6-Trichlorophenol	18	2	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
3,4,5-Trichlorophenol	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	
Trichlorophenols	-	-	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.48	<0.1	<0.1	<0.1	<0.1	

Area ID	Station ID	Field label	Duplicate ID	Date/Time	Lab report ID	Consultants	Screen depth (m)	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	7	7	7	7	7	7	
											MW3-29	MW3-29	MW3-29	MW3-29	MW3-29	MW3-29	
												28/Jul/08	22/Oct/08	22/Jan/09	16/Apr/09	31/Aug/09	18/Nov/09
												405-006.03_GW	405-006.03_GW	405-006.03_GW	100416147, 405-006.03_GW	405-006.03_GW	101119170
												Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera
pH (pH units)	6.5 to 8.7	6.5 to 8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorophenol	4400	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Cresol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
m+p-Cresol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dichlorophenol	0.2	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,6-Dichlorophenol	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dimethylphenol	2100	-	730	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4-Dinitrophenol	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dinoseb	0.05	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Methyl 4,6-dinitrophenol	-	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	0.5	30	1	<0.05	110	1400	110	0.14	15	15	15	15	15	15	15	15	
Phenol	4	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,3,4,5-Tetrachlorophenol	-	-	1	<0.05	10	150	180	<0.05	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
2,3,4,6-Tetrachlorophenol	1	1	1	<0.05	100	1100	700	0.14	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	
2,3,5,6-Tetrachlorophenol	-	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	
Tetrachlorophenols	-	-	1	<0.05	110	1300	880	0.14	19	19	19	19	19	19	19	19	
Total chlorinated phenols	-	-	-	<0.05	340	2900	2200	0.46	67	67	67	67	67	67	67	67	
2,4,6-Tribromophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,3,4-Trichlorophenol	-	-	2	<0.1	0.61	3	2.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
2,3,5-Trichlorophenol	-	-	2	<0.1	1.3	6.5	11	<0.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
2,3,6-Trichlorophenol	-	-	2	<0.1	0.82	0.84	0.51	<0.1	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
2,4,5-Trichlorophenol	63	-	2	<0.1	78	130	110	<0.1	24	24	24	24	24	24	24	24	
2,4,6-Trichlorophenol	18	2	2	<0.1	8.3	12	5.6	0.18	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
3,4,5-Trichlorophenol	-	-	2	<0.1	35	60	110	<0.1	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	
Trichlorophenols	-	-	2	<0.1	120	210	240	0.18	33	33	33	33	33	33	33	33	

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 13-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 40
Groundwater Analytical Results - Volatile Organic Compounds
Lot 3, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	6, 8, 9	6, 8, 9	6, 9	7	4, 5, 9	4, 5, 9	16	16	28,32
Station ID				3-BH10	3-BH10	3-BH11	3-BH14	3-BH31	3-BH31	3-BH31	MV-11BH-14M	MV-11BH-14M
Field label				3-BH10	MV-GWDUP5	3-BH11	BH14 W-I	BH31 W-1	3-BH31	MV-11BH-14M	MV-GWDUP3	MW07-9
Duplicate ID				MV-GWDUP5	3-BH10					MV-GWDUP3	MV-11BH-14M	
Date				14/Feb/12	14/Feb/12	14/Feb/12	21/Mar/98	5/Aug/98	9/Feb/12	7/Feb/12	7/Feb/12	3/Feb/12
Lab report ID				12V574477	12V574477	12V574477	O08.213	8081353	12V573478	12V572681	12V572681	12V571615
Consultants				Franz	Franz	Franz	NEXT	NEXT	Franz	Franz	Franz	Hemmera
Screen depth (m)				0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	0.6 – 3.6	1.22 – 2.74	1.22 – 2.74	0.8 – 2.3
Bromodichloromethane	67000	-	16	-	-	-	-	<0.1	-	-	-	-
Bromoform	840	-	100	-	-	-	-	<0.2	-	-	-	-
Bromomethane	2	-	51	-	-	-	-	<0.8	-	-	-	-
Carbon tetrachloride	6.8	5	5	-	-	-	-	<0.1	-	-	-	-
Chlorobenzene	1.3	30	13	-	-	-	-	<0.1	-	-	-	-
Chlorodibromomethane	10000	-	100	-	-	-	-	<0.1	-	-	-	-
Chloroethane	-	-	46	-	-	-	-	<0.4	-	-	-	-
Chloroform	1.8	-	20	-	-	-	-	<0.3	-	-	-	-
Chloromethane	-	-	950	-	-	-	-	0.5	-	-	-	-
Dibromomethane	-	-	370	-	-	-	-	<0.2	-	-	-	-
1,2-Dichlorobenzene	0.7	3	3	-	-	-	-	<0.1	-	-	-	-
1,3-Dichlorobenzene	42	-	1500	-	-	-	-	<0.1	-	-	-	-
1,4-Dichlorobenzene	26	1	1	-	-	-	-	<0.1	-	-	-	-
Dichlorodifluoromethane	-	-	7300	-	-	-	-	<0.2	-	-	-	-
1,1-Dichloroethane	9000	-	3700	-	-	-	-	<0.1	-	-	-	-
1,2-Dichloroethane	100	5	5	-	-	-	-	<0.4	-	-	-	-
1,1-Dichloroethene	490	14	14	-	-	-	-	<0.1	-	-	-	-
cis-1,2-Dichloroethene	12000	-	370	-	-	-	-	<0.1	-	-	-	-
trans-1,2-Dichloroethene	12000	-	730	-	-	-	-	<0.1	-	-	-	-
Dichloromethane	98	50	50	-	-	-	-	<6	-	-	-	-
1,2-Dichloropropane	9.3	-	9.9	-	-	-	-	<0.1	-	-	-	-
cis-1,3-Dichloropropene	-	-	-	-	-	-	-	<0.1	-	-	-	-
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	<0.1	-	-	-	-
Ethylene dibromide	3.3	-	0.34	-	-	-	-	<0.1	-	-	-	-
2-Hexanone	-	-	-	-	-	-	-	<5	-	-	-	-
Methyl ethyl ketone	120000	-	22000	-	-	-	-	<5	-	-	-	-
Methyl isobutyl ketone	57000	-	2900	-	-	-	-	<2	-	-	-	-
Methyl tert-butyl ether	4300	15	15	<1	<1	<1	<4	-	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	22	-	3.4	-	-	-	-	<0.2	-	-	-	-
Tetrachloroethene	110	30	30	-	-	-	-	<0.1	-	-	-	-
1,1,1-Trichloroethane	4200	-	10000	-	-	-	-	<0.1	-	-	-	-
1,1,2-Trichloroethane	9400	-	12	-	-	-	-	<0.1	-	-	-	-
Trichloroethene	29	5	5	-	-	-	-	<0.1	-	-	-	-
Trichlorofluoromethane	-	-	11000	-	-	-	-	<0.2	-	-	-	-
Vinyl chloride	13	2	2	-	-	-	-	<0.2	-	-	-	-

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 13-November-2012)

Bold indicates parameter exceeds Canadian DW Quality. (Current as of 13-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 13-November-2012)

Table 41
Soil Analytical Results - Monocyclic Aromatic Hydrocarbons
Lot 5, Surrey-Brownsville Site

Area ID	CCME IL (Fine, Surface)	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	10,11	10,11	10,11	10,11	29,31	29,31	29,31	15,31	15,31	10, 11
Station ID					LI1	LI1	LI2	LI2	LI3	LI4	LI5	LI6	LI6	5-BH25
Field label					LI 1-1	LI 1-2	LI 2-1	LI 2-2	LI 3-1	LI 4-1	LI 5-1	LI 6-1	LI 16-1	BH25-25-1A @ 2.5
Duplicate ID														
Date					21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	20/Jul/98
Lab report ID					1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	8080642-soil
Consultants					SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	NEXT
Depth (m)					0.2 - 0.6	0.6 - 1.2	0.2 - 0.6	0.6 - 1.2	0.6 - 0.7	0.6 - 1.5	1.5 - 2	0.2 - 0.6	0.2 - 1.5	0.76
Grain Type					-	-	-	-	-	-	-	-	-	coarse
Benzene	0.0068	0.03	0.0068	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
Ethylbenzene	0.018	0.082	0.018	7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
Styrene	50	50	50	50	-	-	-	-	-	-	-	-	-	-
Toluene	0.08	0.37	0.08	2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	2.4	11	2.4	20	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5

Area ID	CCME IL (Fine, Surface)	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	10, 11, 29, 31	10, 11, 29, 31	13	14, 29, 31	14, 29, 31	14	29, 31	10, 11	10, 11	10, 11
Station ID					5-BH20	5-BH21	5-BH6	5-BH14	5-BH26	5-BH27	5-BH24	MV-11BH-11M	MV-11BH-11M	MV-11BH-11M
Field label					BH20-20-2 @ 3.5'	BH21-21-1 @ 2'	BH6-2	BH14-14-1 @ 2'	BH26-26-1 @ 2'	BH27-27-1 @ 2'	BH24-24-2 @ 4'	MV-11BH-11M-1	MV-Dup4	MV-11BH-11M-4
Duplicate ID												MV-Dup4	MV-11BH-11M-1	
Date					20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID					8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	11V559640	11V559640	11V559640
Consultants					NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz
Depth (m)					1	0.6	1 - 1.4	0.6	0.6	0.6	1.2	0.5 - 1	0.5 - 1	3 - 4
Grain Type					coarse	coarse	fine	coarse	coarse	coarse	coarse	fine	fine	fine
Benzene	0.0068	0.03	0.0068	0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.02	<0.02	<0.02
Ethylbenzene	0.018	0.082	0.018	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05
Styrene	50	50	50	50	-	-	-	-	-	<1	-	<0.05	<0.05	<0.05
Toluene	0.08	0.37	0.08	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.09	0.10	<0.05
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Xylenes (total)	2.4	11	2.4	20	<0.5	<0.5	<0.5	<0.5	<0.5	64	<0.5	<0.05	<0.05	<0.05

Area ID	CCME IL (Fine, Surface)	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	14	14	14	14	29,31	29,31
Station ID					MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M	MV-11BH-16M	MV-11BH-16M
Field label					MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3	MV-Dup 2	MV-11BH-16M-5
Duplicate ID									MV-11BH-16M-5	MV-Dup 2
Date					14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	13/Dec/11	13/Dec/11
Lab report ID					11V559640	11V559640	11V559640	11V559640	11V559248	11V559248
Consultants					Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)					0.5 - 1	1.5 - 2	1.5 - 2	2 - 3	0.5 - 1	4 - 4.5
Grain Type					fine	fine	fine	fine	coarse	fine
Benzene	0.0068	0.03	0.0068	0.04	<0.02	<0.02	<0.02	<0.02	<0.005	<0.005
Ethylbenzene	0.018	0.082	0.018	7	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01
Styrene	50	50	50	50	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.08	0.37	0.08	2.5	0.50	<0.05	<0.05	<0.05	<0.05	<0.05
m+p-Xylene	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes (total)	2.4	11	2.4	20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL (Fine, Surface). (Current as of 9-November-2012)
 Bold indicates parameter exceeds CCME IL (Coarse, Surface). (Current as of 9-November-2012)
 Underline indicates parameter exceeds CCME IL (Fine, Subsoil). (Current as of 9-November-2012)
 Italic and dark blue text indicates parameter exceeds BC CSR IL (STRINGENT). (Current as of 9-November-2012)

Table 42
Soil Analytical Results Compared to CSR Schedule 7 - MAHs
Lot 5, Surrey-Brownsville Site

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	10,11	10,11	10,11	10,11	29,31	29,31	29,31	15,31	15,31	14, 29, 31	
Station ID		LI1	LI1	LI2	LI2	LI3	LI4	LI5	LI6	LI6	5-BH14	
Field label		LI 1-1	LI 1-2	LI 2-1	LI 2-2	LI 3-1	LI 4-1	LI 5-1	LI 6-1	LI 6-1	BH14-14-1 @- 2'	
Duplicate ID												
Date		21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	20/Jul/98	
Lab report ID		1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	1675-K	8080642-soil	
Consultants		SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	SRK	NEXT	
Depth (m)		0.2 – 0.6	0.6 – 1.2	0.2 – 0.6	0.6 – 1.2	0.6 – 0.7	0.6 – 1.5	1.5 – 2	0.2 – 0.6	0.2 – 1.5	0.6	
Benzene		0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
Ethylbenzene		1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
Styrene	5	-	-	-	-	-	-	-	-	-	-	
Toluene	1.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5	
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	
Xylenes (total)	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5	

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	10, 11, 29, 31	10, 11, 29, 31	29, 31	10, 11	14, 29, 31	14	13	10, 11	10, 11	10, 11	
Station ID		5-BH20	5-BH21	5-BH24	5-BH25	5-BH26	5-BH27	5-BH6	MV-11BH-11M	MV-11BH-11M	MV-11BH-11M	
Field label		BH20-20-2 @ 3.5'	BH21-21-1 @ 2'	BH24-24-2 @ 4'	BH25-25-1A @ 2.5'	BH26-26-1 @ 2'	BH27-27-1 @ 2'	BH6-2	MV-11BH-11M	MV-Dup4	MV-11BH-11M-4	
Duplicate ID									MV-Dup4	MV-11BH-11M-1		
Date		20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	
Lab report ID		8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	11V559640	11V559640	11V559640	
Consultants		NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	
Depth (m)		1	0.6	1.2	0.76	0.6	0.6	1 – 1.4	0.5 – 1	0.5 – 1	3 – 4	
Benzene		0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.02	<0.02	<0.02
Ethylbenzene		1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.05
Styrene	5	-	-	-	-	-	<1	-	<0.05	<0.05	<0.05	
Toluene	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.09	0.10	<0.05	
m+p-Xylene	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	
o-Xylene	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	
Xylenes (total)	5	<0.5	<0.5	<0.5	<0.5	<0.5	64	<0.5	<0.05	<0.05	<0.05	

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	14	14	14	14	20	20	
Station ID		MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M	MV-11BH-16M	MV-11BH-16M	
Field label		MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3	MV-Dup 2	MV-11BH-16M-5	
Duplicate ID								
Date		14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	13/Dec/11	13/Dec/11	
Lab report ID		11V559640	11V559640	11V559640	11V559640	11V559248	11V559248	
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	
Depth (m)		0.5 – 1	1.5 – 2	1.5 – 2	2 – 3	0.5 – 1	4 – 4.5	
Benzene		0.04	<0.02	<0.02	<0.02	<0.02	<0.005	<0.005
Ethylbenzene		1	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01
Styrene	5	<0.05	<0.05	<0.05	<0.05	-	-	
Toluene	1.5	0.50	<0.05	<0.05	<0.05	<0.05	<0.05	
m+p-Xylene	-	<0.05	<0.05	<0.05	<0.05	-	-	
o-Xylene	-	<0.05	<0.05	<0.05	<0.05	-	-	
Xylenes (total)	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR Protocol 7 (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 43
Soil Analytical Results - Metals
Lot 5, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	10, 11	10, 11, 29, 31	10, 11, 29, 31	13	14	29, 31	10, 11	10, 11	14	14	14	14
Station ID			5-BH25	5-BH20	5-BH21	5-BH6	5-BH27	5-BH29	MV-11BH-11M	MV-11BH-11M	MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M
Field label			BH25-25-1A @ 2.5'	BH20-20-2 @ 3.5'	BH21-21-1 @ 2'	BH6-2	BH27-27-1 @ 2'	BH29-29-1 @ 2'	MV-11BH-11M-1	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3
Duplicate ID														
Date			20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID			8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640
Consultants			NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			0.76	1	0.6	1 – 1.4	0.6	0.6	0.5 – 1	3 – 4	0.5 – 1	1.5 – 2	1.5 – 2	2 – 3
pH	6 to 8	-	5	5.5	5.3	5.4	5	5.2	6.7	6.6	6	6.1	6	6
Aluminum	-	-	7750	-	-	23100	7890	8580	-	-	-	-	-	-
Antimony	40	40	<10	-	-	<10	<10	<10	1.36	0.90	1.17	0.56	0.58	0.53
Arsenic	12	15	<10	-	-	<10	<10	<10	5.1	11.6	5.7	3.9	3.4	3.8
Barium	2000	400	46	-	-	159	47	50	61.4	160.0	74.3	182.0	171.0	157.0
Beryllium	8	8	<1	-	-	<1	<1	<1	0.14	0.64	0.17	0.61	0.58	0.44
Boron	—	-	16	-	-	27	17	18	2.2	0.3	2.5	0.1	0.1	0.1
Cadmium	22	1.5 to 2	<0.3	-	-	<0.3	<0.3	<0.3	0.48	0.37	1.05	0.26	0.19	0.16
Calcium	-	-	3490	-	-	4910	3740	4110	-	-	-	-	-	-
Chromium	87	60	29	-	-	53	30	34	30	41	26	51	52	41
Cobalt	300	300	0.7	-	-	9	7	7	4.7	10.4	3.0	8.6	7.5	7.4
Copper	91	90 to 250	13	-	-	26	15	16	27.7	47.5	27.1	29.9	27.7	18.9
Iron	-	-	15500	-	-	26900	16000	16900	-	-	-	-	-	-
Lead	600	100 to 2000	<30	4	1	<30	<30	<30	46.20	10.30	107.00	11.80	11.70	11.00
Magnesium	-	-	6620	-	-	6710	6760	7060	-	-	-	-	-	-
Manganese	-	19000	230	-	-	385	270	230	-	-	-	-	-	-
Mercury	50	150	0.02	-	-	0.08	0.04	0.02	0.06	0.08	0.14	0.08	0.08	0.06
Molybdenum	40	40	<4	-	-	<4	<4	<4	3.52	4.70	2.55	0.64	0.52	0.57
Nickel	50	500	30	-	-	31	31	33	18.7	40.9	12.5	30.5	30.5	27.2
Selenium	2.9	10	<3	-	-	<3	<3	<3	0.5	1.4	0.5	0.8	0.8	0.6
Silver	40	40	<2	-	-	<2	<2	<2	0.09	0.16	0.10	0.10	0.10	0.07
Sodium	-	-	203	-	-	297	203	268	-	-	-	-	-	-
Strontium	-	100000	20	-	-	46	21	23	-	-	-	-	-	-
Thallium	1	-	-	-	-	-	-	-	<0.05	0.15	0.07	0.24	0.14	0.17
Tin	300	300	<5	-	-	<5	<5	<5	1.33	0.67	2.89	0.89	1.00	1.52
Titanium	-	-	413	-	-	410	401	503	-	-	-	-	-	-
Uranium	300	200	-	-	-	-	-	-	0.74	2.46	0.55	1.88	1.31	1.27
Vanadium	130	-	35	-	-	54	35	41	32	62	26	61	61	49
Zinc	360	150 to 600	32	-	-	60	34	35	108	76	446	57	53	58

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 9-November-2012)

Bold indicates parameter exceeds CSR IL. (Current as of 9-November-2012)

Table 44
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lot 5, Surrey-Brownsville Site

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BC CSR Schedule 7 (Relocation to Non-Ag)											
								10, 11, 29, 31	10, 11, 29, 31	10, 11	14	29, 31	13	10, 11	10, 11	14	14	14	14
	5-BH20	5-BH21	5-BH25	5-BH27	5-BH29	5-BH6	MV-11BH-11M	MV-11BH-11M	MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M							
	BH20-20-2 @ 3.5'	BH21-21-1 @ 2'	BH25-25-1A @ 2.5'	BH27-27-1 @ 2'	BH29-29-1 @ 2'	BH6-2	MV-11BH-11M-1	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3							
	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11							
	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640							
	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz							
	1	0.6	0.76	0.6	0.6	1-1.4	0.5-1	3-4	0.5-1	1.5-2	1.5-2	2-3							
Aluminum	-	-	7750	7890	8580	23100	-	-	-	-	-	-							
Antimony	20	-	<10	<10	<10	<10	1.36	0.90	1.17	0.56	0.58	0.53							
Arsenic	15	-	<10	<10	<10	<10	5.1	11.6	5.7	3.9	3.4	3.8							
Barium	400	-	46	47	50	159	61.4	160.0	74.3	182.0	171.0	157.0							
Beryllium	4	-	<1	<1	<1	<1	0.14	0.64	0.17	0.61	0.58	0.44							
Boron	-	-	16	17	18	27	2.2	0.3	2.5	0.1	0.1	0.1							
Cadmium	1.5	-	<0.3	<0.3	<0.3	<0.3	0.48	0.37	1.05	0.26	0.19	0.16							
Calcium	-	-	3490	3740	4110	4910	-	-	-	-	-	-							
Chromium	60	-	29	30	34	53	30	41	26	51	52	41							
Cobalt	50	-	0.7	7	7	9	4.7	10.4	3.0	8.6	7.5	7.4							
Copper	90	-	13	15	16	26	27.7	47.5	27.1	29.9	27.7	18.9							
Iron	-	-	15500	16000	16900	26900	-	-	-	-	-	-							
Lead	100	4	1	<30	<30	<30	46.20	10.30	107.00	11.80	11.70	11.00							
Magnesium	-	-	6620	6760	7060	6710	-	-	-	-	-	-							
Manganese	-	-	230	270	230	385	-	-	-	-	-	-							
Mercury	15	-	0.02	0.04	0.02	0.08	0.06	0.08	0.14	0.08	0.08	0.06							
Molybdenum	10	-	<4	<4	<4	<4	3.52	4.70	2.55	0.64	0.52	0.57							
Nickel	100	-	30	31	33	31	18.7	40.9	12.5	30.5	30.5	27.2							
Selenium	3	-	<3	<3	<3	<3	0.5	1.4	0.5	0.8	0.8	0.6							
Silver	20	-	<2	<2	<2	<2	0.09	0.16	0.10	0.10	0.10	0.07							
Sodium	-	-	203	203	268	297	-	-	-	-	-	-							
Strontium	-	-	20	21	23	46	-	-	-	-	-	-							
Thallium	-	-	-	-	-	-	<0.05	0.15	0.07	0.24	0.14	0.17							
Tin	50	-	<5	<5	<5	<5	1.33	0.67	2.89	0.89	1.00	1.52							
Titanium	-	-	413	401	503	410	-	-	-	-	-	-							
Uranium	-	-	-	-	-	-	0.74	2.46	0.55	1.88	1.31	1.27							
Vanadium	200	-	35	35	41	54	32	62	26	61	61	49							
Zinc	150	-	32	34	35	60	108	76	446	57	53	58							

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR Protocol 7 (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 45
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Lot 5, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	10,11	10,11	10,11	10,11	10, 11	12	14	10, 11	10, 11	10, 11	14	14
Station ID			LI1	LI1	LI1	LI2	5-BH25	5-BH23	5-BH27	MV-11BH-11M	MV-11BH-11M	MV-11BH-11M	MV-11BH-12M	MV-11BH-12M
Field label			LI 1-2	LI 1-2 AVG	LI 1-2 Duplicate	LI 2-2	BH25-25-1A @ 2.5'	BH23-23-2 @ 3'	BH27-27-1 @ 2'	MV-11BH-11M-1	MV-Dup4	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2
Duplicate ID			LI 1-2 Duplicate		LI 1-2 AVG					MV-Dup4	MV-11BH-11M-1			
Date			21/Mar/94	21/Mar/94	21/Mar/94	21/Mar/94	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID														
Consultants														
Depth (m)														
Acenaphthene	0.28	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.23	0.30	<0.01	0.02	<0.01
Acenaphthylene	320	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	0.08	<0.01	0.13	<0.01
Anthracene	32	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	0.30	0.48	<0.02	0.07	<0.02
Benzo[a]anthracene	10	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.80	1.00	<0.02	0.10	<0.02
Benzo[a]pyrene	72	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.68	0.90	<0.05	0.10	<0.05
Benzo[b]fluoranthene	10	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.58	0.88	<0.02	0.16	<0.02
Benzo[ghi]perylene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	0.30	<0.05	0.10	<0.05
Benzo[k]fluoranthene	10	10	-	-	-	<0.05	-	-	-	0.29	0.35	<0.02	0.05	<0.02
Chrysene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.68	1.00	<0.05	0.10	<0.05
Dibenzo[a,h]anthracene	10	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.12	<0.02	<0.02	<0.02
Fluoranthene	180	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.37	1.80	2.30	<0.05	0.50	<0.05
Fluorene	0.25	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	0.44	<0.02	0.06	<0.02
High molecular weight PAHs	-	-	0.27	0.23	0.19	-	-	-	1.32	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	10	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.31	0.38	<0.02	<0.02	<0.02
Low molecular weight PAHs	-	-	0.14	0.15	0.15	<0.05	-	0.05	0.46	-	-	-	-	-
2-Methylnaphthalene	-	-	-	-	-	-	-	-	-	0.19	0.21	<0.01	0.19	<0.01
Naphthalene	0.013	50	0.08	0.08	0.08	<0.05	<0.05	0.05	0.12	0.32	0.37	<0.01	0.89	<0.01
Phenanthrene	0.046	50	0.06	0.07	0.07	<0.05	<0.05	<0.05	0.21	1.20	1.90	<0.02	0.52	<0.02
Pyrene	100	100	0.27	0.23	0.19	<0.05	<0.05	<0.05	0.27	1.60	2.20	<0.02	0.50	<0.02
Total PAHs	-	-	0.41	0.37	0.34	-	-	0.05	1.78	-	-	-	-	-
Total PAHs IACR (Calculated) - Calculated	1	-	0.866	0.866	0.866	0.866	0.866	0.866	2.23	10.53	14.33	0.569	2.04	0.569
Total PAHs TEQ (calculated) - Calculated	5.3	-	0.116	0.116	0.116	0.116	0.116	0.116	0.212	0.9679	1.294	0.115	0.155	0.115

Area ID	CCME IL	BC CSR IL	14	14	29,31	29,31	29,31
Station ID			MV-11BH-13M	MV-11BH-13M	MV-11BH-16M	MV-11BH-16M	MV-11BH-16M
Field label			MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-16M-1	MV-Dup 2	MV-11BH-16M-5
Duplicate ID					MV-Dup 2	MV-11BH-16M-1	
Date			14/Dec/11	14/Dec/11	13/Dec/11	13/Dec/11	13/Dec/11
Lab report ID	11V559640						
Consultants	Franz						
Depth (m)	1.5 - 2						
Acenaphthene	0.28	-	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	320	-	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	32	-	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	72	10	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[b]fluoranthene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[ghi]perylene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo[a,h]anthracene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	180	-	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	0.25	-	<0.02	<0.02	<0.02	<0.02	<0.02
High molecular weight PAHs	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Low molecular weight PAHs	-	-	-	-	-	-	-
2-Methylnaphthalene	-	-	0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	0.013	50	0.02	0.01	<0.01	<0.01	<0.01
Phenanthrene	0.046	50	0.04	<0.02	<0.02	<0.02	<0.02
Pyrene	100	100	0.02	<0.02	<0.02	<0.02	<0.02
Total PAHs	-	-	-	-	-	-	-
Total PAHs IACR (Calculated) - Calculated	1	-	0.569	0.569	0.569	0.569	0.569
Total PAHs TEQ (calculated) - Calculated	5.3	-	0.115	0.115	0.115	0.115	0.115

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL. (Current as of 9-November-2012)
Bold indicates parameter exceeds CSR IL. (Current as of 9-November-2012)

Table 47
 Soil Analytical Results - PCBs
 Lot 5, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	14		
Station ID			5-BH27		
Field label			BH27-27-1 @ 2'		
Duplicate ID					
Date			20/Jul/98		
Lab report ID			8080642-soil		
Consultants			NEXT		
Depth (m)			0.6		
Aroclor 1242			-	50	<0.03
Aroclor 1248			-	50	<0.03
Aroclor 1254	-	50	<0.03		
Aroclor 1260	-	50	<0.03		

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 9-November-2012)

Bold indicates parameter exceeds BC CSR IL. (Current as of 9-November-2012)

Table 48
Soil Analytical Results Compared to CSR Schedule 7 - PCBs
Lot 5, Surrey-Brownsville Site

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	APEC 14
Station ID		5-BH27
Field label		BH27-27-1 @ 2'
Duplicate ID		
Date		20/Jul/98
Lab report ID		8080642-soil
Consultants		NEXT
Depth (m)		0.6
Aroclor 1242		5
Aroclor 1248	5	<0.03
Aroclor 1254	5	<0.03
Aroclor 1260	5	<0.03

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR Protocol 7 (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 50
Soil Analytical Results Compared to CSR Schedule 7 - Petroleum Hydrocarbons
Lot 5, Surrey-Brownsville Site

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	14	14, 29, 31	14, 29, 31	14, 29, 31	29, 31	10, 11, 29, 31	10, 11, 29, 31	14	12	29, 31
Station ID	5-BH12	5-BH13	5-BH14	5-BH15	5-BH19	5-BH20	5-BH21	5-BH22	5-BH23	5-BH24	
Field label	BH12-2	BH13-13-1 @ 1'	BH14-14-1 @ 2'	BH15-15-2 @ 4'	BH19-19-2 @ 4'	BH20-20-2 @ 3.5'	BH21-21-1 @ 2'	BH22-22-2 @ 1.5'	BH23-23-2 @ 3'	BH24-24-2 @ 4'	
Duplicate ID											
Date	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98
Lab report ID	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil
Consultants	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Depth (m)	0.9	0.3	0.6	1.2	1.2	1	0.6	0.46	0.9	1.2	
EPH (C10-C19)	1000	<250	<250	-	<250	<250	-	-	<250	<250	-
EPH (C19-C32)	1000	<250	<250	-	<250	<250	-	-	<250	<250	-
LEPH	1000	-	-	-	-	-	-	-	<250	-	-
HEPH	1000	-	-	-	-	-	-	-	<250	-	-
VPH (VH6-10) minus BTEX	200	-	-	<10	-	<10	<10	-	-	<10	-
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	-
F1 (C6-C10) minus BTEX	-	-	-	-	-	-	-	-	-	-	-
F2 (C10-C16)	-	-	-	-	-	-	-	-	-	-	-
F3 (C16-C34)	-	-	-	-	-	-	-	-	-	-	-
F4 (C34-C50)	-	-	-	-	-	-	-	-	-	-	-

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	10, 11	14, 29, 31	14	29, 31	29, 31	29, 31	13, 29, 31	13	13	10, 11
Station ID	5-BH25	5-BH26	5-BH27	5-BH28	5-BH29	5-BH30	5-BH5	5-BH6	5-BH8	MV-11BH-11M	
Field label	BH25-25-1A @ 2.5'	BH26-26-1 @ 2'	BH27-27-1 @ 2'	BH28 28-1 @ 2'	BH29-29-1 @ 2'	BH30 30-2 @ 5'	BH5-1	BH6-2	BH8-1	MV-11BH-11M-1	
Duplicate ID										MV-Dup4	
Date	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11
Lab report ID	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	11V559640
Consultants	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	
Depth (m)	0.76	0.6	0.6	0.6	0.6	1.5	0.6 – 0.9	1 – 1.4	0.8 – 1	0.5 – 1	
EPH (C10-C19)	1000	<250	<250	4200	<250	<250	<250	<250	-	<250	-
EPH (C19-C32)	1000	<250	<250	<250	<250	<250	<250	<250	-	<250	-
LEPH	1000	<250	-	-	-	<250	-	-	-	-	68
HEPH	1000	<250	-	-	-	<250	-	-	-	-	1100
VPH (VH6-10) minus BTEX	200	13	<10	3500	-	-	-	<10	-	-	27
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	<10
F1 (C6-C10) minus BTEX	-	-	-	-	-	-	-	-	-	-	<10
F2 (C10-C16)	-	-	-	-	-	-	-	-	-	-	20
F3 (C16-C34)	-	-	-	-	-	-	-	-	-	-	1150
F4 (C34-C50)	-	-	-	-	-	-	-	-	-	-	818

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	10, 11	10, 11	14	14	14	14	20	20	20
Station ID	MV-11BH-11M	MV-11BH-11M	MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M	MV-11BH-16M	MV-11BH-16M	MV-11BH-16M	MV-11BH-16M
Field label	MV-Dup4	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-16M-1	MV-Dup 2	MV-11BH-16M-1	MV-11BH-16M-5
Duplicate ID	MV-11BH-11M-1							MV-Dup 2	MV-11BH-16M-1	
Date	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	13/Dec/11	13/Dec/11	13/Dec/11	13/Dec/11
Lab report ID	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640	11V559248	11V559248	11V559248	11V559248
Consultants										
Depth (m)	0.5 – 1	3 – 4	0.5 – 1	1.5 – 2	1.5 – 2	2 – 3	0.5 – 1	0.5 – 1	4 – 4.5	
EPH (C10-C19)	1000	-	-	-	-	-	-	-	-	-
EPH (C19-C32)	1000	-	-	-	-	-	-	-	-	-
LEPH	1000	120	<25	180	26	<25	<25	<25	<25	<25
HEPH	1000	2600	260	1100	250	203	201	<25	<25	<25
VPH (VH6-10) minus BTEX	200	<10	<10	67	<10	<10	22	-	-	-
F1 (C6-C10)	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
F1 (C6-C10) minus BTEX	-	<10	<10	<10	<10	<10	-	<10	<10	<10
F2 (C10-C16)	-	18	13	99	<10	<10	<10	<10	<10	<10
F3 (C16-C34)	-	1030	412	1490	171	139	244	<10	<10	<10
F4 (C34-C50)	-	760	306	1060	240	62	115	12	<10	<10

Notes
All units in ug/g.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds BC CSR Protocol 7 (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 51
Soil Analytical Results - Phenols/Chlorophenols
Lot 5, Surrey-Brownsville Site

Area ID	CCME IL		15	29_31	29_31	29_31	29_31	10_11	10_11	14	14	14	14
Station ID	BC CSR IL		5-BH3	5-BH9	5-BH19	5-BH24	5-BH31	MV-11BH-11M	MV-11BH-11M-4	MV-11BH-12M	MV-11BH-12M-2	MV-11BH-13M	MV-11BH-13M-3
Field label			BH3-3	BH9-2	BH19-19-2 @ 4'	BH24-24-2 @ 4'	BH31-31-1 @ 2'	MV-11BH-11M-1	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-1	MV-11BH-13M-3
Duplicate ID													
Date			20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID			8080642-soil	8080642-soil	8080642-soil	8080642-soil	8080642-soil	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640
Consultants			NEXT	NEXT	NEXT	NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			1.6 - 2	1.1	1.2	1.2	0.6	0.5 - 1	3 - 4	0.5 - 1	1.5 - 2	1.5 - 2	2 - 3
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	5	5	-	-	-	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Cresol	-	10	-	-	-	-	<0.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m+p-Cresol	-	-	-	-	-	-	-	<0.005	<0.005	0.474	<0.005	<0.005	<0.005
p-Cresol	-	10	-	-	-	-	<0.2	-	-	-	-	-	-
2,4-Dichlorophenol	5	5	-	-	-	-	-	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2,6-Dichlorophenol	5	5	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	10	10	-	-	-	-	<2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrophenol	10	10	-	-	-	-	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	-	620	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Methyl 4,6-dinitrophenol	10	10	-	-	-	-	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	10	10	-	-	-	-	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Nitrophenol	10	10	-	-	-	-	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	7.6	0.15 to 0.2	<0.005	<0.005	<0.005	0.18	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.034
Phenol	3.8	10	-	-	-	-	<0.2	<0.002	<0.002	0.097	<0.002	<0.002	0.014
Phenols	3.8	10	-	-	-	-	-	-	-	-	-	-	-
2,3,4,5-Tetrachlorophenol	5	5	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	5	5	<0.005	<0.005	<0.005	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	5	5	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Tribromophenol	-	-	88	99	99	82	61	-	-	-	-	-	-
2,3,4-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	5	5	<0.01	<0.01	<0.01	0.14	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes
All units in ug/g, unless otherwise noted.
"-." indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL. (Current as of 9-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 9-November-2012)

Table 53
Soil Analytical Results - Volatile Organic Compounds
Lot 5, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	APEC 14	APEC 29, APEC 31	APEC 10, APEC 11	APEC 10, APEC 11	APEC 10, APEC 11	APEC 14	APEC 14	APEC 14	APEC 14
Station ID			5-BH27	5-BH31	MV-11BH-11M	MV-11BH-11M	MV-11BH-11M	MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M
Field label			BH27-27-1 @ 2'	BH31-31-1 @ 2'	MV-11BH-11M-1	MV-Dup4	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3
Duplicate ID					MV-Dup4	MV-11BH-11M-1					
Date			20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID			8080642-soil	8080642-soil	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640
Consultants			NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			0.6	0.6	0.5 - 1	0.5 - 1	3 - 4	0.5 - 1	1.5 - 2	1.5 - 2	2 - 3
Bromodichloromethane	-	18	<1	-	-	-	-	-	-	-	-
Bromoform	-	2200	<1	-	-	-	-	-	-	-	-
Bromomethane	-	13	<4	-	-	-	-	-	-	-	-
Carbon tetrachloride	50	50	<1	-	-	-	-	-	-	-	-
Chlorobenzene	10	10	<1	-	-	-	-	-	-	-	-
Chlorodibromomethane	-	26	<1	-	-	-	-	-	-	-	-
Chloroethane	-	65	<2	-	-	-	-	-	-	-	-
Chloroform	50	50	<1	-	-	-	-	-	-	-	-
Chloromethane	-	160	<4	-	-	-	-	-	-	-	-
Dibromomethane	-	230	<1	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	10	10	<1	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	10	10	<1	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	10	<1	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	-	310	<2	-	-	-	-	-	-	-	-
1,1-Dichloroethane	50	50	<1	-	-	-	-	-	-	-	-
1,2-Dichloroethane	50	50	<2	-	-	-	-	-	-	-	-
1,1-Dichloroethene	50	50	<1	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	50	<1	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	50	<1	-	-	-	-	-	-	-	-
Dichloromethane	50	50	<30	-	-	-	-	-	-	-	-
1,2-Dichloropropane	50	50	<1	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	-	50	<1	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	-	50	<1	-	-	-	-	-	-	-	-
Ethylene dibromide	-	0.73	<1	-	-	-	-	-	-	-	-
2-Hexanone	-	-	<50	-	-	-	-	-	-	-	-
Methyl ethyl ketone	-	110000	<50	-	-	-	-	-	-	-	-
Methyl isobutyl ketone	-	47000	<20	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	-	700	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-Tetrachloroethane	50	9.3	<1	-	-	-	-	-	-	-	-
Tetrachloroethene	0.6	5	<1	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	50	50	<1	<1	-	-	-	-	-	-	-
1,1,2-Trichloroethane	50	50	<1	-	-	-	-	-	-	-	-
Trichloroethene	0.01	0.015	<1	-	-	-	-	-	-	-	-
Trichlorofluoromethane	-	2000	<2	-	-	-	-	-	-	-	-
Vinyl chloride	-	7.5	<1	-	-	-	-	-	-	-	-

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds CCME IL. (Current as of 9-November-2012)

Bold indicates parameter exceeds BC CSR IL. (Current as of 9-November-2012)

Table 54
Soil Analytical Results Compared to CSR Schedule 7 - VOCs
Lot 5, Surrey-Brownsville Site

Area ID	BC CSR Schedule 7 (Relocation to Non-Ag)	14	29, 31	10, 11	10, 11	10, 11	14	14	14	14
Station ID		5-BH27	5-BH31	MV-11BH-11M	MV-11BH-11M	MV-11BH-11M	MV-11BH-12M	MV-11BH-12M	MV-11BH-13M	MV-11BH-13M
Field label		BH27-27-1 @ 2'	BH31-31-1 @ 2'	MV-11BH-11M-1	MV-Dup4	MV-11BH-11M-4	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-13M-2	MV-11BH-13M-3
Duplicate ID				MV-Dup4	MV-11BH-11M-1					
Date		20/Jul/98	20/Jul/98	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11	14/Dec/11
Lab report ID		8080642-soil	8080642-soil	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640	11V559640
Consultants		NEXT	NEXT	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		0.6	0.6	0.5 – 1	0.5 – 1	3 – 4	0.5 – 1	1.5 – 2	1.5 – 2	2 – 3
Bromodichloromethane		-	<1	-	-	-	-	-	-	-
Bromoform		-	<1	-	-	-	-	-	-	-
Bromomethane	-	<4	-	-	-	-	-	-	-	
Carbon tetrachloride	5	<1	-	-	-	-	-	-	-	
Chlorobenzene	1	<1	-	-	-	-	-	-	-	
Chlorodibromomethane	-	<1	-	-	-	-	-	-	-	
Chloroethane	-	<2	-	-	-	-	-	-	-	
Chloroform	5	<1	-	-	-	-	-	-	-	
Chloromethane	-	<4	-	-	-	-	-	-	-	
Dibromomethane	-	<1	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	1	<1	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	1	<1	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	1	<1	-	-	-	-	-	-	-	
Dichlorodifluoromethane	-	<2	-	-	-	-	-	-	-	
1,1-Dichloroethane	5	<1	-	-	-	-	-	-	-	
1,2-Dichloroethane	5	<2	-	-	-	-	-	-	-	
1,1-Dichloroethene	5	<1	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	-	<1	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	-	<1	-	-	-	-	-	-	-	
Dichloromethane	5	<30	-	-	-	-	-	-	-	
1,2-Dichloropropane	5	<1	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	5	<1	-	-	-	-	-	-	-	
trans-1,3-Dichloropropene	5	<1	-	-	-	-	-	-	-	
Ethylene dibromide	-	<1	-	-	-	-	-	-	-	
2-Hexanone	-	<50	-	-	-	-	-	-	-	
Methyl ethyl ketone	-	<50	-	-	-	-	-	-	-	
Methyl isobutyl ketone	-	<20	-	-	-	-	-	-	-	
Methyl tert-butyl ether	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
1,1,2,2-Tetrachloroethane	5	<1	-	-	-	-	-	-	-	
Tetrachloroethene	5	<1	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	5	<1	<1	-	-	-	-	-	-	
1,1,2-Trichloroethane	5	<1	-	-	-	-	-	-	-	
Trichloroethene	0.015	<1	-	-	-	-	-	-	-	
Trichlorofluoromethane	-	<2	-	-	-	-	-	-	-	
Vinyl chloride	-	<1	-	-	-	-	-	-	-	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR Protocol 7 (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 55
Groundwater Analytical Results - Monocyclic Aromatic Hydrocarbons
Lot 5, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	15		12	12		13	14, 29, 31	10, 11, 29, 31	12	12		
Station ID				OW21	OW27	OW28	OW28	LI6	LI7	5-BH14	5-BH21	5-BH23	5-BH23		
Field label				OW 21	OW 27	OW 28	OW 28 Duplicate	LI 6	LI7	BH14W-1 Lot #5	BH21W-1 Lot #5	BH23W-1 Lot #5	5-BH23		
Duplicate ID						OW 28 Duplicate	OW 28								
Date				28/Mar/94	28/Mar/94	28/Mar/94	28/Mar/94	28/Mar/94	28/Mar/94	28/Mar/94	28/Mar/94	28/Jul/98	28/Jul/98	28/Jul/98	7/Feb/12
Lab report ID				1700-K	1700-K	1700-K	1700-K	1700-K	1700-K	1700-K	1700-K	8080642-water	8080642-water	8080642-water	12V572681
Consultants				Norecol	Norecol	Norecol	Norecol	SRK	SRK	NEXT	NEXT	NEXT	NEXT	NEXT	
Screen depth (m)								0.61 – 1.5	0.61 – 1.5	2.5 – 5	2 – 6	0.8 – 2.3	0.8 – 2.3		
Benzene	200	5	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5		
Ethylbenzene	11000	2.4	2.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5		
Styrene	72	-	720	-	-	-	-	-	<0.1	-	0.3	-	-		
Toluene	83	24	24	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.3	0.4	0.4	<0.5		
Xylenes (total)	18000	300	300	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.7	2.1	<0.5		

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	10, 11	14	13	13	10, 11
Station ID				5-BH25	5-BH27	5-BH6	5-BH8	MV-11BH-11M
Field label				BH25W-1 Lot #5	BH27W-1 Lot #5	BH6W-1 Lot #5	BH8W-1 Lot #5	MV-11BH-11M
Duplicate ID								
Date				28/Jul/98	29/Jul/98	28/Jul/98	28/Jul/98	13/Feb/12
Lab report ID				8080642-water	8080642-water	8080642-water	8080642-water	12V574297
Consultants				NEXT	NEXT	NEXT	NEXT	Franz
Screen depth (m)				0.8 – 3	0.5 – 2	0.2 – 1.7	6.1 – 7.6	1.22 – 2.74
Benzene	200	5	5	1.3	<2.5	<0.1	<0.1	<0.5
Ethylbenzene	11000	2.4	2.4	<u>10</u>	<2.5	<0.1	<0.1	<0.5
Styrene	72	-	720	-	<2.5	<0.1	<0.1	<0.5
Toluene	83	24	24	0.5	2.8	<0.1	0.2	<0.5
Xylenes (total)	18000	300	300	23	300	<0.1	<0.1	<0.5

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 56
Analytical Results in Groundwater - Dissolved Metals
Lot 5, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	10, 11	14	14	29, 31	13	14	10, 11	12	14	14
Station ID				5-BH25	5-BH27	5-BH27	5-BH29	MW5-12	MW5-13	MW5-20	MW5-23	MW5-32	MW5-34
Field label				BH25W-1 Lot #5	BH27L5	BH27W-1 Lot #5	BH29W-1 Lot #5	MW5-12	MW5-13	MW5-20	MW5-23	MW5-32	MW5-34
Duplicate ID													
Date				28/Jul/98	31/Mar/99	29/Jul/98	28/Jul/98	18/Nov/09	18/Nov/09	18/Nov/09	18/Nov/09	18/Nov/09	18/Nov/09
Lab report ID				8080642-water	K4668-water	8080642-water	8080642-water	101119170	101119170	101119170	101119170	101119170	101119170
Consultants				NEXT	NEXT	NEXT	NEXT	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera
Screen depth (m)	0.8 – 3	0.5 – 2	0.5 – 2	0.5 – 2									
pH	6.5 to 8.7	6.5 to 8.5		-	6.13	6.07	6.13	6.1	5.9	5.4	5.7	6.1	6.7
Hardness (CaCO3) (mg/L)	-	-	-	-	60300	45000	53000	-	-	-	-	-	-
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	-	556	530	1040	-	-	-	-	-	-
Dissolved Antimony	1600	6	6	-	<200	<1	<1	-	-	-	-	-	-
Dissolved Arsenic	5	10	10	-	<200	26	13	-	-	-	-	-	-
Dissolved Barium	500	1000	1000	-	80	98	100	-	-	-	-	-	-
Dissolved Beryllium	5.3	-	53	-	<5	<1	<1	-	-	-	-	-	-
Dissolved Boron	5000	5000	5000	-	<100	120	80	-	-	-	-	-	-
Dissolved Cadmium	0.017	5	0.3 to 0.6	-	0.5	<0.2	<0.2	-	-	-	-	-	-
Dissolved Calcium	-	-	-	-	14500	12400	14700	-	-	-	-	-	-
Dissolved Chromium	8.9	50	10	-	<10	7	4	10	<1	<1	<1	<1	<1
Total Chromium (III)	-	-	50	-	-	-	-	11	<20	<20	<20	<20	<20
Dissolved Chromium (VI)	-	-	10	-	-	-	-	1	<10	<10	<10	<10	<10
Dissolved Cobalt	-	-	40	-	<10	4	5	-	-	-	-	-	-
Dissolved Copper	2	1000	20	-	10	6	6	-	-	-	-	-	-
Dissolved Iron	300	300	6500	-	34900	30900	15000	-	-	-	-	-	-
Dissolved Lead	2	10	10	2	2	2	2	-	-	-	-	-	-
Dissolved Lithium	-	-	730	-	-	-	-	-	-	-	-	-	-
Dissolved Magnesium	-	-	100000	-	5800	3310	3870	-	-	-	-	-	-
Dissolved Manganese	-	50	550	-	1590	1740	1650	-	-	-	-	-	-
Dissolved Mercury	0.016	1	1	-	-	<0.05	<0.05	-	-	-	-	-	-
Dissolved Molybdenum	73	-	250	-	<30	7	7	-	-	-	-	-	-
Dissolved Nickel	83	-	83	-	<50	11	12	-	-	-	-	-	-
Dissolved Selenium	1	10	10	-	<1	<2	<2	-	-	-	-	-	-
Dissolved Silicon	-	-	-	-	-	17800	19400	-	-	-	-	-	-
Dissolved Silver	0.1	-	0.5 to 15	-	<0.1	<1	<1	-	-	-	-	-	-
Dissolved Sodium	-	200000	200000	-	13000	5250	5510	-	-	-	-	-	-
Dissolved Strontium	-	-	22000	-	-	110	110	-	-	-	-	-	-
Dissolved Tellurium	-	-	-	-	-	<1	<1	-	-	-	-	-	-
Dissolved Thallium	0.8	-	3	-	0.3	<0.1	<0.1	-	-	-	-	-	-
Dissolved Thorium	-	-	-	-	-	<0.5	<0.5	-	-	-	-	-	-
Dissolved Tin	-	-	22000	-	-	<1	<1	-	-	-	-	-	-
Dissolved Titanium	100	-	1000	-	-	92	48	-	-	-	-	-	-
Dissolved Uranium	300	20	20	-	0.2	<0.5	<0.5	-	-	-	-	-	-
Dissolved Vanadium	-	-	-	-	-	27	10	-	-	-	-	-	-
Dissolved Zinc	10	5000	75 to 100	-	16	9	19	-	-	-	-	-	-
Dissolved Zirconium	-	-	-	-	-	9	4	-	-	-	-	-	-

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Table 56
Analytical Results in Groundwater - Dissolved Metals
Lot 5, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	14	14
Station ID				MV-11BH-12M	MV-11BH-13M
Field label				MV-11BH-12M	MV-11BH-13M
Duplicate ID					
Date				13/Feb/12	13/Feb/12
Lab report ID				12V574297	12V574297
Consultants				Franz	Franz
Screen depth (m)				1.52 – 3.05	1.22 – 2.74
pH	6.5 to 8.7	6.5 to 8.5		6.33	6.17
Hardness (CaCO3) (mg/L)	-	-	-	177000	536000
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	163	247
Dissolved Antimony	1600	6	6	0.31	0.21
Dissolved Arsenic	5	10	10	3.1	11.6
Dissolved Barium	500	1000	1000	179.0	473.0
Dissolved Beryllium	5.3	-	53	0.10	0.03
Dissolved Boron	5000	5000	5000	29	24
Dissolved Cadmium	0.017	5	0.3 to 0.6	0.24	0.01
Dissolved Calcium	-	-	-	46500	151000
Dissolved Chromium	8.9	50	10	2.8	3.4
Total Chromium (III)	-	-	50	-	-
Dissolved Chromium (VI)	-	-	10	-	-
Dissolved Cobalt	-	-	40	13.10	29.30
Dissolved Copper	2	1000	20	3.2	0.4
Dissolved Iron	300	300	6500	23800	153000
Dissolved Lead	2	10	10	0.61	<0.01
Dissolved Lithium	-	-	730	7.1	1.4
Dissolved Magnesium	-	-	100000	14800	38500
Dissolved Manganese	-	50	550	2400	8020
Dissolved Mercury	0.016	1	1	<0.003	<0.003
Dissolved Molybdenum	73	-	250	2.64	0.57
Dissolved Nickel	83	-	83	18.4	32.9
Dissolved Selenium	1	10	10	0.9	1.0
Dissolved Silicon	-	-	-	-	-
Dissolved Silver	0.1	-	0.5 to 15	<0.01	<0.01
Dissolved Sodium	-	200000	200000	144000	89500
Dissolved Strontium	-	-	22000	-	-
Dissolved Tellurium	-	-	-	-	-
Dissolved Thallium	0.8	-	3	0.087	<0.002
Dissolved Thorium	-	-	-	-	-
Dissolved Tin	-	-	22000	-	-
Dissolved Titanium	100	-	1000	58.8	176.0
Dissolved Uranium	300	20	20	1.17	0.49
Dissolved Vanadium	-	-	-	1.6	4.5
Dissolved Zinc	10	5000	75 to 100	40	30
Dissolved Zirconium	-	-	-	-	-

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were r

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine.

Table 58
Groundwater Analytical Results - Petroleum Hydrocarbons
Lot 5, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	14, 29, 31	29, 31	15, 29, 31	10, 11, 29, 31	12	12	10, 11	10, 11	14	14
Station ID				5-BH14	5-BH19	5-BH2	5-BH21	5-BH23	5-BH23	5-BH25	5-BH25	5-BH27	5-BH27
Field label				BH14W-1 Lot #5	BH19W-1 Lot #5	BH2W-1A Lot #5	BH21W-1 Lot #5	BH23W-1 Lot #5	5-BH23	25 Lot 5	BH25W-1 Lot #5	27 Lot 5	BH27W-1 Lot #5
Duplicate ID													
Date				28/Jul/98	28/Jul/98	28/Jul/98	28/Jul/98	28/Jul/98	7/Feb/12	26/Mar/01	28/Jul/98	26/Mar/01	29/Jul/98
Lab report ID				8080642-water	8080642-water	8080642-water	8080642-water	8080642-water	12V572681	2-51-935 (O)	8080642-water	2-51-935 (O)	8080642-water
Consultants				NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT	NEXT
Screen depth (m)				2.5 – 5	3 – 6	0 – 2	2 – 6	0.8 – 2.3	0.8 – 2.3	0.8 – 3	0.8 – 3	0.5 – 2	0.5 – 2
EPH (C10-C19)	-	-	5000	-	<500	<500	-	2100	<100	700	900	300	3000
EPH (C19-C32)	-	-	-	-	<500	1200	-	<500	<100	2000	<500	<1000	800
LEPH	-	-	500	-	<500	<500	-	2100	<100	-	890	-	3000
HEPH	-	-	-	-	<500	1200	-	<500	<100	-	<500	-	800
VH C6-C10	-	-	15000	-	-	-	-	-	-	-	-	-	-
VPH (VH6-10) minus BTEX	-	-	1500	<0.1	-	-	<0.1	<0.1	-	-	0.46	-	20
F1 (C6-C10)	-	-	-	-	-	-	-	-	-	-	-	-	-
F1 (C6-C10) minus BTEX	9100	-	-	-	-	-	-	-	-	-	-	-	-
F2 (C10-C16)	1300	-	-	-	-	-	-	-	<100	-	-	-	-
F3 (C16-C34)	-	-	-	-	-	-	-	-	<100	-	-	-	-
F4 (C34-C50)	-	-	-	-	-	-	-	-	<100	-	-	-	-

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	29, 31	13	13	10, 11	10, 11	10, 11	29,31
Station ID				5-BH29	5-BH6	5-BH8	MW5-20	MW5-20	MV-11BH-11M	MV-11BH-16M
Field label				BH29W-1 Lot #5	BH6W-1 Lot #5	BH8W-1 Lot #5	MW5-20	MW5-20	MV-11BH-11M	MV-11BH-16M
Duplicate ID										
Date				28/Jul/98	28/Jul/98	28/Jul/98	16/Apr/09	18/Nov/09	13/Feb/12	9/Feb/12
Lab report ID				8080642-water	8080642-water	8080642-water	100416147, 405-006.03_GW	101119170, 405-006.03_GW	12V574297	12V573478
Consultants				NEXT	NEXT	NEXT	Hemmera	Hemmera	Franz	Franz
Screen depth (m)				0.5 – 2	0.2 – 1.7	6.1 – 7.6			1.22 – 2.74	2.74 – 4.27
EPH (C10-C19)	-	-	5000	<500	-	<500	<250	<250	520	<100
EPH (C19-C32)	-	-	-	<500	-	<500	690	310	670	<100
LEPH	-	-	500	<500	-	<500	<250	<250	520	<100
HEPH	-	-	-	<500	-	<500	690	310	670	<100
VH C6-C10	-	-	15000	-	-	-	-	-	<100	-
VPH (VH6-10) minus BTEX	-	-	1500	-	<0.1	<0.1	-	-	<100	-
F1 (C6-C10)	-	-	-	-	-	-	-	-	<100	-
F1 (C6-C10) minus BTEX	9100	-	-	-	-	-	-	-	<100	-
F2 (C10-C16)	1300	-	-	-	-	-	-	-	<100	<100
F3 (C16-C34)	-	-	-	-	-	-	-	-	<100	<100
F4 (C34-C50)	-	-	-	-	-	-	-	-	<100	<100

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Canadian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 60
Groundwater Analytical Results - Volatile Organic Compounds
Lot 5, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	14, 29, 31	12	14	13	13	10, 11
Station ID				5-BH14	5-BH23	5-BH27	5-BH6	5-BH8	MV-11BH-11M
Field label				BH14W-1 Lot #5	BH23W-1 Lot #5	BH27W-1 Lot #5	BH6W-1 Lot #5	BH8W-1 Lot #5	MV-11BH-11M
Duplicate ID									
Date				28/Jul/98	28/Jul/98	29/Jul/98	28/Jul/98	28/Jul/98	13/Feb/12
Lab report ID				8080642-water	8080642-water	8080642-water	8080642-water	8080642-water	12V574297
Consultants				NEXT	NEXT	NEXT	NEXT	NEXT	Franz
Screen depth (m)				2.5 – 5	0.8 – 2.3	0.5 – 2	0.2 – 1.7	6.1 – 7.6	1.22 – 2.74
Bromodichloromethane	67000	-	16	<0.1	<0.1	<2.5	<0.1	<0.1	-
Bromoform	840	-	100	<0.2	<0.2	<5	<0.2	<0.2	-
Bromomethane	2	-	51	<0.8	<0.8	<20	<0.8	<0.8	-
Carbon tetrachloride	6.8	5	5	<0.1	<0.1	<2.5	<0.1	<0.1	-
Chlorobenzene	1.3	30	13	<0.1	<0.1	<2.5	<0.1	<0.1	-
Chlorodibromomethane	10000	-	100	<0.1	<0.1	<2.5	<0.1	<0.1	-
Chloroethane	-	-	46	<0.4	<0.4	<10	<0.4	<0.4	-
Chloroform	1.8	-	20	<0.3	<0.3	<7.5	<0.3	<0.3	-
Chloromethane	-	-	950	<0.4	<0.4	<10	<0.4	<0.4	-
Dibromomethane	-	-	370	<0.2	<0.2	<5	<0.2	<0.2	-
1,2-Dichlorobenzene	0.7	3	3	<0.1	<0.1	<2.5	<0.1	<0.1	-
1,3-Dichlorobenzene	42	-	1500	<0.1	<0.1	<2.5	<0.1	<0.1	-
1,4-Dichlorobenzene	26	1	1	<0.1	<0.1	<2.5	<0.1	<0.1	-
Dichlorodifluoromethane	-	-	7300	<0.2	<0.2	<5	<0.2	<0.2	-
1,1-Dichloroethane	9000	-	3700	<0.1	<0.1	<2.5	<0.1	<0.1	-
1,2-Dichloroethane	100	5	5	<0.4	<0.4	<10	<0.4	<0.4	-
1,1-Dichloroethene	490	14	14	<0.1	<0.1	<2.5	<0.1	<0.1	-
cis-1,2-Dichloroethene	12000	-	370	<0.1	<0.1	<2.5	<0.1	<0.1	-
trans-1,2-Dichloroethene	12000	-	730	<0.1	<0.1	<2.5	<0.1	<0.1	-
Dichloromethane	98	50	50	<6	<6	<150	<6	<6	-
1,2-Dichloropropane	9.3	-	9.9	<0.1	<0.1	<2.5	<0.1	<0.1	-
cis-1,3-Dichloropropene	-	-	-	<0.1	<0.1	<2.5	<0.1	<0.1	-
trans-1,3-Dichloropropene	-	-	-	<0.1	<0.1	<2.5	<0.1	<0.1	-
Ethylene dibromide	3.3	-	0.34	<0.1	<0.1	<2.5	<0.1	<0.1	-
2-Hexanone	-	-	-	<5	<5	<120	<5	<5	-
Methyl ethyl ketone	120000	-	22000	<5	<5	<120	<5	<5	-
Methyl isobutyl ketone	57000	-	2900	<2	<2	<50	<2	<2	-
Methyl tert-butyl ether	4300	15	15	-	-	-	-	-	<1
1,1,2,2-Tetrachloroethane	22	-	3.4	<0.2	<0.2	<5	<0.2	<0.2	-
Tetrachloroethene	110	30	30	<0.1	<0.1	<2.5	<0.1	<0.1	-
1,1,2-Trichloroethane	9400	-	12	<0.1	<0.1	<2.5	<0.1	<0.1	-
Trichloroethene	29	5	5	<0.1	0.1	<2.5	<0.1	<0.1	-
Trichlorofluoromethane	-	-	11000	<0.2	<0.2	<5	<0.2	<0.2	-
Vinyl chloride	13	2	2	<0.2	<0.2	<5	<0.2	<0.2	-

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 62
Soil Analytical Results Compared to CSR Schedule 7 - MAHs
Lot 6, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	
Station ID		MW06-2	MW07-6	MW07-6	MW07-7	MW07-7	MW07-7	MW07-8	MW07-8	MW07-9	MW07-9	BH08-12
Field label		MW06-2-3	MW07-6-4	MW07-6-7	MW07-7-5	MW07-7-9	MW07-7-9	MW07-8-5	MW07-8-7	MW07-9-3	MW07-9-5	BH08-12.3
Duplicate ID												
Date		29/Jun/06	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	16/Sep/08
Lab report ID		405-003.04_Soil	80817021	80817021	80817021	80817021	80817021	80817021	80817021	80817021	80817021	90917051
Consultants		Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera
Depth (m)		1.83 – 2.44	1.828 – 2.286	3.2 – 3.657	1.828 – 2.286	4.114 – 4.57	2.286 – 2.743	3.2 – 3.657	1.7 – 2.286	2.667 – 3.048	1.35 – 1.7	
Benzene		0.04	<0.03	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Ethylbenzene		1	<0.03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	5	<0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Toluene	1.5	<0.03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	
Xylenes (total)	5	<0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32	25, 26, 27, 32	
Station ID		BH08-12	BH08-12	MW08-10	MW08-10	MW08-11	MW08-11	MW08-13	MW08-13	MW08-13	BV-11BH-01M	
Field label		BH08-12.5	BH08-12.4	MW08-10.3	MW08-10.4	MW08-11.2	MW08-11.4	MW08-13.2	MW08-13.4	MW08-13.5	BV-11BH-01M-2	
Duplicate ID												
Date		16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	15/Dec/11	
Lab report ID		90917051	90917051	90917051	90917051	90917051	90917051	90917051	90917051	90917051	11V559640	
Consultants		Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Franz	
Depth (m)		1.35 – 1.7	1.7 – 2.31	2.12 – 2.43	2.87 – 3.35	1.5 – 2	2.75 – 3.04	0.92 – 1.53	1.83 – 2.44	3.35 – 3.97	0.5 – 1	
Benzene		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.02
Ethylbenzene		1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05
Styrene	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	
Toluene	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	<0.05	
o-Xylene	-	-	-	-	-	-	-	-	-	-	<0.05	
Xylenes (total)	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	
Station ID		BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M	BV-11BH-07M	BV-11BH-07M	
Field label		BV-11BH-01M-5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5	BV-11BH-07M-2	BV-11BH-07M-2	
Duplicate ID												BV-DUP8	
Date		15/Dec/11	17/Dec/11	17/Dec/11	16/Dec/11	16/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	
Lab report ID		11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784	
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	
Depth (m)		3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2	0 – 0.5	3 – 4	0.5 – 1	0.5 – 1	
Benzene		0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene		1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Toluene	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
m+p-Xylene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
o-Xylene	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Xylenes (total)	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	

Area ID	BC CSR IL (Relocation to Non-Ag)	21	21
Station ID		BV-11BH-07M	BV-11BH-07M
Field label		BV-DUP8	BV-11BH-07M-3
Duplicate ID		BV-11BH-07M-2	
Date		19/Dec/11	19/Dec/11
Lab report ID		11V560784	11V560784
Consultants		Franz	Franz
Depth (m)	0.5 – 1	1.5 – 2	
Benzene	0.04	<0.02	<0.02
Ethylbenzene	1	<0.05	<0.05
Styrene	5	<0.05	<0.05
Toluene	1.5	<0.05	<0.05
m+p-Xylene	-	<0.05	<0.05
o-Xylene	-	<0.05	<0.05
Xylenes (total)	5	<0.05	<0.05

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 63
Soil Analytical Results - Metals
Lot 6, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	
Station ID			BV-11BH-01M	BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M	
Field label			BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
Duplicate ID				BV-Dup5	BV-11BH-01M-5							BV-Dup9	BV-11BH-04M-3		BV-Dup10
Date			14/Dec/11	14/Dec/11	14/Dec/11	16/Dec/11	16/Dec/11	15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID			11V559640	11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784
Consultants			Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			0.5 - 1	3 - 4	3 - 4	0.5 - 1	1.5 - 2	0.5 - 1	2 - 3	0 - 0.5	1.5 - 2	1.5 - 2	0 - 0.5	3 - 4	
pH	6 to 8	-	7.5	7.6	7.5	7.3	6.6	7.5	7.1	6.9	7	7.1	7		
Antimony	40	40	0.31	0.56	0.64	0.19	0.52	0.39	0.82	0.56	0.66	0.29	0.92		
Arsenic	12	15	3.6	17.2	17.5	2.8	7.9	4.3	10.0	4.4	7.0	5.4	5.2		
Barium	2000	400	57.9	87.7	86.9	49.0	97.1	74.7	83.8	80.5	57.0	54.7	69.5		
Beryllium	8	8	0.21	0.34	0.31	0.17	0.34	0.21	0.24	0.24	0.20	0.18	0.21		
Boron	-	-	0.1	0.4	0.4	<0.1	1.4	0.2	0.2	1.2	0.2	0.2	0.3		
Cadmium	22	2 to 25	0.12	0.31	0.31	0.12	0.26	0.14	0.22	0.37	0.12	0.12	0.22		
Chromium	87	60	25	43	40	27	43	27	29	37	30	28	29		
Cobalt	300	300	7.2	11.4	11.0	7.5	12.4	8.6	9.6	8.5	8.2	7.9	8.3		
Copper	91	250	18.0	30.7	30.3	14.4	29.5	37.3	22.6	27.3	16.7	15.2	24.0		
Lead	600	2000	3.30	7.65	7.39	2.75	8.09	3.62	7.24	18.60	3.24	2.89	14.80		
Mercury	50	150	0.02	0.06	0.06	0.02	0.07	0.03	0.04	0.05	0.03	0.02	0.04		
Molybdenum	40	40	0.72	0.81	0.80	0.33	0.72	0.60	0.94	2.24	0.47	0.42	0.75		
Nickel	50	500	30.1	37.8	37.5	31.9	47.3	30.0	34.9	31.1	32.0	31.2	30.1		
Selenium	2.9	10	0.2	0.6	0.6	0.1	0.5	0.3	0.4	0.4	0.2	0.3	0.3		
Silver	40	40	<0.05	0.10	0.10	<0.05	0.09	0.05	0.07	0.09	0.06	<0.05	0.06		
Thallium	1	-	<0.05	0.09	0.09	<0.05	0.09	0.06	0.08	0.07	0.06	<0.05	0.06		
Tin	300	300	0.28	0.70	0.93	0.45	0.82	0.29	0.48	1.30	0.32	0.35	0.86		
Uranium	300	200	0.38	0.70	0.69	0.26	0.60	0.39	0.55	0.54	0.39	0.33	0.43		
Vanadium	130	-	36	44	43	42	50	37	39	40	41	40	43		
Zinc	360	300 to 600	39	66	64	36	67	47	48	108	40	41	125		

Area ID	CCME IL	BC CSR IL	25, 26, 27, 30	23	23
Station ID			BV-11BH-05M	BV-11BH-09M	BV-11BH-09M
Field label			BV-Dup10	BV-11BH-09M-1	BV-11BH-09M-5
Duplicate ID			BV-11BH-05M-5		
Date			17/Dec/11	14/Dec/11	14/Dec/11
Lab report ID			11V560784	11V559640	11V559640
Consultants				Franz	Franz
Depth (m)			3 - 4	0 - 0.5	3 - 4
pH	6 to 8	-	7.2	7.3	
Antimony	40	40	0.44	2.05	
Arsenic	12	15	14.6	6.2	
Barium	2000	400	76.8	93.3	
Beryllium	8	8	0.27	0.32	
Boron	-	-	0.2	0.8	
Cadmium	22	2 to 25	0.24	0.27	
Chromium	87	60	34	34	
Cobalt	300	300	10.4	11.6	
Copper	91	250	28.1	29.8	
Lead	600	2000	6.34	7.47	
Mercury	50	150	0.04	0.06	
Molybdenum	40	40	0.70	0.69	
Nickel	50	500	36.4	38.6	
Selenium	2.9	10	0.4	0.6	
Silver	40	40	0.08	0.09	
Thallium	1	-	0.08	0.08	
Tin	300	300	0.46	1.70	
Uranium	300	200	0.55	0.67	
Vanadium	130	-	44	47	
Zinc	360	300 to 600	59	64	

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)
 Bold indicates parameter exceeds BC CSR IL. (Current as of 13-November-2012)

Table 64
Soil Analytical Results Compared to CSR Schedule 7 - Metals
Lot 6, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	
Station ID		BV-11BH-01M	BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-04M	
Field label		BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	
Duplicate ID			BV-Dup5	BV-11BH-01M-5						BV-Dup9	BV-11BH-04M-3	
Date		15/Dec/11	15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	16/Dec/11	16/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	
Lab report ID		11V559640	11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	
Depth (m)		0.5 – 1	3 – 4	3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2	1.5 – 2	
Antimony		20	0.31	0.56	0.64	0.19	0.52	0.39	0.82	0.56	0.66	0.29
Arsenic		15	3.6	17.2	17.5	2.8	7.9	4.3	10.0	4.4	7.0	5.4
Barium	400	57.9	87.7	86.9	49.0	97.1	74.7	83.8	80.5	57.0	54.7	
Beryllium	4	0.21	0.34	0.31	0.17	0.34	0.21	0.24	0.24	0.20	0.18	
Boron	-	0.1	0.4	0.4	<0.1	1.4	0.2	0.2	1.2	0.2	0.2	
Cadmium	1.5	0.12	0.31	0.31	0.12	0.26	0.14	0.22	0.37	0.12	0.12	
Chromium	60	25	43	40	27	43	27	29	37	30	28	
Cobalt	50	7.2	11.4	11.0	7.5	12.4	8.6	9.6	8.5	8.2	7.9	
Copper	90	18.0	30.7	30.3	14.4	29.5	37.3	22.6	27.3	16.7	15.2	
Lead	100	3.30	7.65	7.39	2.75	8.09	3.62	7.24	18.60	3.24	2.89	
Mercury	15	0.02	0.06	0.06	0.02	0.07	0.03	0.04	0.05	0.03	0.02	
Molybdenum	10	0.72	0.81	0.80	0.33	0.72	0.60	0.94	2.24	0.47	0.42	
Nickel	100	30.1	37.8	37.5	31.9	47.3	30.0	34.9	31.1	32.0	31.2	
Selenium	3	0.2	0.6	0.6	0.1	0.5	0.3	0.4	0.4	0.2	0.3	
Silver	20	<0.05	0.10	0.10	<0.05	0.09	0.05	0.07	0.09	0.06	<0.05	
Thallium	-	<0.05	0.09	0.09	<0.05	0.09	0.06	0.08	0.07	0.06	<0.05	
Tin	50	0.28	0.70	0.93	0.45	0.82	0.29	0.48	1.30	0.32	0.35	
Uranium	-	0.38	0.70	0.69	0.26	0.60	0.39	0.55	0.54	0.39	0.33	
Vanadium	200	36	44	43	42	50	37	39	40	41	40	
Zinc	150	39	66	64	36	67	47	48	108	40	41	

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	23	23	
Station ID		BV-11BH-05M	BV-11BH-05M	BV-11BH-05M	BV-11BH-09M	BV-11BH-09M	
Field label		BV-11BH-05M-1	BV-11BH-05M-5	BV-Dup10	BV-11BH-09M-1	BV-11BH-09M-5	
Duplicate ID			BV-Dup10	BV-11BH-05M-5			
Date		19/Dec/11	19/Dec/11	19/Dec/11	15/Dec/11	15/Dec/11	
Lab report ID		11V560784	11V560784	11V560784	11V559640	11V559640	
Consultants		Franz	Franz	Franz	Franz	Franz	
Depth (m)		0 – 0.5	3 – 4	3 – 4	0 – 0.5	3 – 4	
Antimony		20	0.92	0.48	0.44	2.05	0.49
Arsenic		15	5.2	11.7	14.6	4.5	6.2
Barium	400	69.5	81.0	76.8	174.0	93.3	
Beryllium	4	0.21	0.26	0.27	0.26	0.32	
Boron	-	0.3	0.2	0.2	1.5	0.8	
Cadmium	1.5	0.22	0.22	0.24	0.25	0.27	
Chromium	60	29	35	34	38	34	
Cobalt	50	8.3	10.6	10.4	7.5	11.6	
Copper	90	24.0	27.6	28.1	31.1	29.8	
Lead	100	14.80	5.59	6.34	18.10	7.47	
Mercury	15	0.04	0.04	0.04	0.03	0.06	
Molybdenum	10	0.75	0.58	0.70	2.14	0.69	
Nickel	100	30.1	36.4	36.4	29.0	38.6	
Selenium	3	0.3	0.4	0.4	0.3	0.6	
Silver	20	0.06	0.07	0.08	0.08	0.09	
Thallium	-	0.06	0.08	0.08	<0.05	0.08	
Tin	50	0.86	0.49	0.46	3.92	1.70	
Uranium	-	0.43	0.54	0.55	0.84	0.67	
Vanadium	200	43	46	44	40	47	
Zinc	150	125	60	59	80	64	

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 65
Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Lot 6, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	21
Station ID			BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M	BV-11BH-07M	BV-11BH-07M
Field label														
Duplicate ID													BV-DUP8	BV-11BH-07M-2
Date													17/Dec/11	17/Dec/11
Lab report ID													11V560784	11V560784
Consultants													Franz	Franz
Depth (m)													0.5 - 1	0.5 - 1
Acenaphthene	0.28	-	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	320	-	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Anthracene	32	-	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
Benzo[a]anthracene	10	10	<0.02	<0.02	<0.02	0.29	<0.02	<0.02	<0.02	<0.02	<0.02	0.13	<0.02	<0.02
Benzo[a]pyrene	72	10	<0.05	<0.05	<0.05	0.38	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	<0.05
Benzo[b]fluoranthene	10	10	<0.02	<0.02	<0.02	0.30	<0.02	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02
Benzo[ghi]perylene	-	-	<0.05	<0.05	<0.05	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05
Benzo[k]fluoranthene	10	10	<0.02	<0.02	<0.02	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02
Chrysene	-	-	<0.05	<0.05	<0.05	0.37	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	<0.05	<0.05
Dibenzo[a,h]anthracene	10	10	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
Fluoranthene	180	-	<0.05	<0.05	<0.05	0.59	<0.05	<0.05	<0.05	<0.05	<0.05	0.29	<0.05	<0.05
Fluorene	0.25	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	0.02
Indeno[1,2,3-cd]pyrene	10	10	<0.02	<0.02	<0.02	0.18	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02
2-Methylnaphthalene	-	-	<0.01	<0.01	0.03	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.14	0.14
Naphthalene	0.013	50	<0.01	0.03	0.02	0.10	<0.01	0.01	0.02	<0.01	<0.01	0.01	0.02	0.02
Phenanthrene	0.046	50	<0.02	0.04	0.02	0.17	0.02	<0.02	0.04	<0.02	<0.02	0.05	0.07	0.07
Pyrene	100	100	<0.02	0.04	<0.02	0.63	<0.02	<0.02	0.06	<0.02	<0.02	0.38	<0.02	0.02
Total PAHs IACR (Calculated) - Calculated	1	-	0.569	0.569	0.569	3.271	0.569	0.569	0.579	0.569	0.569	1.310	0.569	0.569
Total PAHs TEQ (calculated) - Calculated	5.3	-	0.115	0.115	0.115	0.943	0.115	0.115	0.125	0.115	0.115	0.362	0.115	0.115

Area ID	CCME IL	BC CSR IL	21	22	22	23	23
Station ID			BV-11BH-07M	BV-11BH-08M	BV-11BH-08M	BV-11BH-09M	BV-11BH-09M
Field label							
Duplicate ID							
Date							
Lab report ID							
Consultants							
Depth (m)							
Acenaphthene	0.28	-	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	320	-	<0.01	0.01	<0.01	0.01	<0.01
Anthracene	32	-	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	72	10	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[b]fluoranthene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[ghi]perylene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	-	-	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo[a,h]anthracene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	180	-	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	0.25	-	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	10	10	<0.02	<0.02	<0.02	<0.02	<0.02
2-Methylnaphthalene	-	-	0.05	<0.01	<0.01	0.04	<0.01
Naphthalene	0.013	50	0.07	<0.01	<0.01	0.09	0.01
Phenanthrene	0.046	50	0.05	<0.02	<0.02	0.02	0.03
Pyrene	100	100	0.04	<0.02	<0.02	0.03	0.03
Total PAHs IACR (Calculated) - Calculated	1	-	0.569	0.569	0.569	0.569	0.569
Total PAHs TEQ (calculated) - Calculated	5.3	-	0.115	0.115	0.115	0.115	0.115

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)
 Bold indicates parameter exceeds BC CSR IL. (Current as of 13-November-2012)

Table 66
Soil Analytical Results Compared to CSR Schedule 7 - PAHs
Lot 6, Surrey-Brownsville Site

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	
									BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M			
				15/Dec/11	11V559640	Franz	0.5 - 1		15/Dec/11	11V559640	17/Dec/11	17/Dec/11	16/Dec/11	16/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11
Acenaphthene	-								<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	-								<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Anthracene	-								<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Benzo[a]anthracene	1								<0.02	<0.02	<0.02	0.29	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13
Benzo[a]pyrene	1								<0.05	<0.05	<0.05	0.38	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15
Benzo[b]fluoranthene	1								<0.02	<0.02	<0.02	0.30	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.11
Benzo[ghi]perylene	-								<0.05	<0.05	<0.05	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Benzo[k]fluoranthene	1								<0.02	<0.02	<0.02	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06
Chrysene	-								<0.05	<0.05	<0.05	0.37	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19
Dibenzo[a,h]anthracene	1								<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Fluoranthene	-								<0.05	<0.05	<0.05	0.59	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.29
Fluorene	-								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	1								<0.02	<0.02	<0.02	0.18	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06
2-Methylnaphthalene	-								<0.01	<0.01	0.03	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	5								<0.01	0.03	0.02	0.10	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Phenanthrene	5								<0.02	0.04	0.02	0.17	0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	0.05
Pyrene	10								<0.02	0.04	<0.02	0.63	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	0.38

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	BC CSR IL (Relocation to Non-Ag)	21	21	21	22	22	23	23
									BV-11BH-07M	BV-11BH-07M	BV-11BH-07M	BV-11BH-08M	BV-11BH-08M	BV-11BH-09M	BV-11BH-09M
				19/Dec/11	11V560784	Franz	0.5 - 1		21	21	21	22	22	23	23
Acenaphthene	-								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	-								<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01
Anthracene	-								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	1								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	1								<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[b]fluoranthene	1								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[ghi]perylene	-								<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	1								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	-								<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo[a,h]anthracene	1								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	-								<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	-								0.03	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	1								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2-Methylnaphthalene	-								0.14	0.14	0.05	<0.01	<0.01	0.04	<0.01
Naphthalene	5								0.02	0.02	0.07	<0.01	<0.01	0.09	0.01
Phenanthrene	5								0.07	0.07	0.05	<0.02	<0.02	0.02	0.03
Pyrene	10								<0.02	0.02	0.04	<0.02	<0.02	0.03	0.03

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 68
Soil Analytical Results Compared to CSR Schedule 7 - Petroleum Hydrocarbons
Lot 6, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 30,34	25, 32	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34
Station ID		MW06-2	MW06-3	MW07-6	MW07-6	MW07-7	MW07-7	MW07-8	MW07-8	MW07-9	MW07-9
Field label		MW06-2-3	MW06-3-3	MW07-6-4	MW07-6-7	MW07-7-5	MW07-7-9	MW07-8-5	MW07-8-7	MW07-9-3	MW07-9-5
Duplicate ID											
Date		29/Jun/06	29/Jun/06	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07	15/Aug/07
Lab report ID		405-003.04 Soil	405-003.04 Soil	80817021	80817021	80817021	80817021	80817021	80817021	80817021	80817021
Consultants		Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera
Depth (m)		1.83 – 2.44	1.524 – 1.98	1.828 – 2.286	3.2 – 3.657	1.828 – 2.286	4.114 – 4.57	2.286 – 2.743	3.2 – 3.657	1.7 – 2.286	2.667 – 3.048
EPH (C10-C19)		2000	970	<250	770	-	390	-	-	<250	<250
EPH (C19-C32)		5000	<250	<250	<250	-	<250	-	-	<250	<250

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34
Station ID		BH08-12	BH08-12	BH08-12	MW08-10	MW08-10	MW08-11	MW08-11	MW08-13	MW08-13	MW08-13
Field label		BH08-12.3	BH08-12.5	BH08-12.4	MW08-10.3	MW08-10.4	MW08-11.2	MW08-11.4	MW08-13.2	MW08-13.4	MW08-13.5
Duplicate ID											
Date		16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08	16/Sep/08
Lab report ID		90917051	90917051	90917051	90917051	90917051	90917051	90917051	90917051	90917051	90917051
Consultants		Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera	Hemmera
Depth (m)		1.35 – 1.7	1.35 – 1.7	1.7 – 2.31	2.12 – 2.43	2.87 – 3.35	1.5 – 2	2.75 – 3.04	0.92 – 1.53	1.83 – 2.44	3.35 – 3.97
EPH (C10-C19)		2000	-	-	-	-	-	-	-	-	-
EPH (C19-C32)		5000	-	-	-	-	-	-	-	-	-

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30
Station ID		BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M
Field label		BV-11BH-01M-2	BV-11BH-01M-5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
Duplicate ID											
Date		15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	16/Dec/11	16/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11
Lab report ID		11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	11V560784
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		0.5 – 1	3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2	0 – 0.5	3 – 4
EPH (C10-C19)		2000	-	-	-	-	-	-	-	-	-
EPH (C19-C32)		5000	-	-	-	-	-	-	-	-	-

Area ID	BC CSR IL (Relocation to Non-Ag)	21	21	21	22	22	23	23
Station ID		BV-11BH-07M	BV-11BH-07M	BV-11BH-07M	BV-11BH-08M	BV-11BH-08M	BV-11BH-09M	BV-11BH-09M
Field label		BV-11BH-07M-2	BV-DUP8	BV-11BH-07M-3	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-09M-1	BV-11BH-09M-5
Duplicate ID		BV-DUP8	BV-11BH-07M-2					
Date		19/Dec/11	19/Dec/11	19/Dec/11	17/Dec/11	17/Dec/11	15/Dec/11	15/Dec/11
Lab report ID		11V560784	11V560784	11V560784	11V560614	11V560614	11V559640	11V559640
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		0.5 – 1	0.5 – 1	1.5 – 2	0.35 – 0.5	2 – 3	0 – 0.5	3 – 4
EPH (C10-C19)		2000	-	-	-	-	-	-
EPH (C19-C32)		5000	-	-	-	-	-	-

Notes

All units in ug/g.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 69
 Soil Analytical Results - Phenols/Chlorophenols
 Lot 6, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	23	23		
Station ID			BV-11BH-01M	BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-09M	BV-11BH-09M	
Field label			BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-09M-1	BV-11BH-09M-5
Duplicate ID				BV-Dup5	BV-11BH-01M-5							BV-Dup9	BV-11BH-04M-3			
Date			14/Dec/11	14/Dec/11	14/Dec/11	16/Dec/11	16/Dec/11	15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	14/Dec/11	14/Dec/11
Lab report ID			11V559640	11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	11V560784	11V560784	11V559640	11V559640
Consultants			Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			0.5 – 1	3 – 4	3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2	1.5 – 2	0 – 0.5	0 – 0.5	0 – 0.5	3 – 4
Grain Type			coarse	fine	fine	coarse	coarse	coarse	coarse	coarse	coarse	coarse	coarse	coarse	coarse	fine
pH			6 to 8	-	7.5	7.6	7.5	7.3	6.6	7.5	7.1	6.9	7	7.1	7	7.2
4-Chloro-3-methylphenol	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Chlorophenol	5	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
o-Cresol	-	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
m+p-Cresol	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,4-Dichlorophenol	5	5	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.003	<0.003	
2,6-Dichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,4-Dimethylphenol	10	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,4-Dinitrophenol	10	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Dinoseb	-	620	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Methyl 4,6-dinitrophenol	10	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Nitrophenol	10	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4-Nitrophenol	10	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Pentachlorophenol	7.6	0.15 to 0.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Phenol	3.8	10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2,3,4,5-Tetrachlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,3,4,6-Tetrachlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,3,5,6-Tetrachlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,4,6-Tribromophenol	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,3,4-Trichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,3,5-Trichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,3,6-Trichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,4,5-Trichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2,4,6-Trichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
3,4,5-Trichlorophenol	5	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

Notes
 All units in ug/g, unless otherwise noted.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 13-November-2012)

Table 70
Soil Analytical Results Compared to CSR Schedule 7 - Phenols/Chlorophenols
Lot 6, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30
Station ID		BV-11BH-01M	BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M
Field label		BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3
Duplicate ID			BV-Dup5	BV-11BH-01M-5						BV-Dup9
Date		15/Dec/11	15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	16/Dec/11	16/Dec/11	19/Dec/11	19/Dec/11
Lab report ID		11V559640	11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		0.5 – 1	3 – 4	3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2
4-Chloro-3-methylphenol	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	0.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
o-Cresol	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m+p-Cresol	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	0.5	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,6-Dichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Methyl 4,6-dinitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Nitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	0.15	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenol	1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,3,4,5-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Tribromophenol	-	-	-	-	-	-	-	-	-	-
2,3,4-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	23	23
Station ID		BV-11BH-04M	BV-11BH-05M	BV-11BH-05M	BV-11BH-09M	BV-11BH-09M
Field label		BV-Dup9	BV-11BH-05M-1	BV-11BH-05M-5	BV-11BH-09M-1	BV-11BH-09M-5
Duplicate ID		BV-11BH-04M-3				
Date		19/Dec/11	19/Dec/11	19/Dec/11	15/Dec/11	15/Dec/11
Lab report ID		11V560784	11V560784	11V560784	11V559640	11V559640
Consultants		Franz	Franz	Franz	Franz	Franz
Depth (m)		1.5 – 2	0 – 0.5	3 – 4	0 – 0.5	3 – 4
4-Chloro-3-methylphenol	-	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	0.5	<0.002	<0.002	<0.002	<0.002	<0.002
o-Cresol	1	<0.005	<0.005	<0.005	<0.005	<0.005
m+p-Cresol	-	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	0.5	<0.002	<0.002	<0.002	<0.003	<0.003
2,6-Dichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	1	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	-	<0.005	<0.005	<0.005	<0.005	<0.005
2-Methyl 4,6-dinitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005
4-Nitrophenol	1	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	0.15	<0.005	<0.005	<0.005	<0.005	<0.005
Phenol	1	<0.002	<0.002	<0.002	<0.002	<0.002
2,3,4,5-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Tribromophenol	-	-	-	-	-	-
2,3,4-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	0.5	<0.005	<0.005	<0.005	<0.005	<0.005

Notes

All units in ug/g, unless otherwise noted.

-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 71
Soil Analytical Results - Volatile Organic Compounds
Lot 6, Surrey-Brownsville Site

Area ID	CCME IL	BC CSR IL	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	21	21
Station ID			BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M	BV-11BH-07M	BV-11BH-07M	BV-11BH-07M
Field label			BV-11BH-01M-2	BV-11BH-01M-5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5	BV-11BH-07M-2	BV-DUP8	BV-11BH-07M-3
Duplicate ID													BV-DUP8	BV-11BH-07M-2	
Date			14/Dec/11	14/Dec/11	16/Dec/11	16/Dec/11	15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11
Lab report ID			11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784
Consultants			Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)			0.5 – 1	3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2	0 – 0.5	3 – 4	0.5 – 1	0.5 – 1	1.5 – 2
Methyl tert-butyl ether	-	700	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Notes
All units in ug/g.
"-" indicates that there is no applicable standard or analyses were not performed.
Red cells indicates parameter exceeds CCME IL. (Current as of 13-November-2012)
Bold indicates parameter exceeds BC CSR IL. (Current as of 13-November-2012)

Table 72
Soil Analytical Results Compared to CSR Schedule 7 - VOCs
Lot 6, Surrey-Brownsville Site

Area ID	BC CSR IL (Relocation to Non-Ag)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30
Station ID		BV-11BH-01M	BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-03M	BV-11BH-04M	BV-11BH-04M	BV-11BH-05M	BV-11BH-05M
Field label		BV-11BH-01M-2	BV-11BH-01M-5	BV-11BH-02M-2	BV-11BH-02M-3	BV-11BH-03M-1	BV-11BH-03M-3	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
Duplicate ID											
Date		15/Dec/11	15/Dec/11	17/Dec/11	17/Dec/11	16/Dec/11	16/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11	19/Dec/11
Lab report ID		11V559640	11V559640	11V560614	11V560614	11V560293	11V560293	11V560784	11V560784	11V560784	11V560784
Consultants		Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Depth (m)		0.5 – 1	3 – 4	0.5 – 1	1.5 – 2	0.5 – 1	2 – 3	0 – 0.5	1.5 – 2	0 – 0.5	3 – 4
Methyl tert-butyl ether		-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Area ID	BC CSR IL (Relocation to Non-Ag)	21	21	21
Station ID		BV-11BH-07M	BV-11BH-07M	BV-11BH-07M
Field label		BV-11BH-07M-2	BV-DUP8	BV-11BH-07M-3
Duplicate ID		BV-DUP8	BV-11BH-07M-2	
Date		19/Dec/11	19/Dec/11	19/Dec/11
Lab report ID		11V560784	11V560784	11V560784
Consultants		Franz	Franz	Franz
Depth (m)		0.5 – 1	0.5 – 1	1.5 – 2
Methyl tert-butyl ether	-	<0.1	<0.1	<0.1

Notes

All units in ug/g.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR IL (Relocation to Non-Ag). (Current as of 14-November-2012)

Table 73
Groundwater Analytical Results - Monocyclic Aromatic Hydrocarbons
Lot 6, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	22	23	25, 30,34
Station ID				BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	BV-11BH-08M	BV-11BH-09M	MW06-2
Field label				BV-11BH-01M	BV-11BH-02M	BV-GWDUP1	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	BV-11BH-08M	BV-11BH-09M	MW06-2
Duplicate ID					BV-GWDUP1	BV-11BH-02M							
Date				3/Feb/12	2/Feb/12	2/Feb/12	1/Feb/12	1/Feb/12	1/Feb/12	2/Feb/12	3/Feb/12	3/Feb/12	5/Jul/06
Lab report ID				12V571615	12V571329	12V571329	12V570940	12V570940	12V570940	12V571329	12V571615	12V571615	405-003.04_water
Consultants				Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Hemmera
Screen depth (m)				3.05 – 4.57	3.05 – 4.57	3.05 – 4.57	2.44 – 3.96	1.52 – 3.05	2.44 – 3.96	0.91 – 2.44	2.29 – 3.81	2.29 – 3.81	
Benzene				200	5	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	11000	2.4	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.7	
Styrene	72	-	720	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	
Toluene	83	24	24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes (total)	18000	300	300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8	2.5	

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 30,34	25, 30,34	25, 30	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34
Station ID				MW06-2	MW06-2	MW06-3	MW07-6	MW07-6	MW07-7	MW07-7	MW07-8	MW07-8
Field label				MW06-2	MW06-2	MW06-3	MW07-6	MW07-6	MW07-7	MW07-7	MW07-8	MW07-8
Duplicate ID												
Date				22/Sep/08	2/Feb/12	7/May/06	16/Aug/07	2/Feb/12	16/Aug/07	3/Feb/12	16/Aug/07	3/Feb/12
Lab report ID				405-003.04_water	12V571329	405-003.04_water	80817037	12V571329	80817037	12V571615	80817037	12V571615
Consultants				Hemmera	Franz	Hemmera	Hemmera	Franz	Hemmera	Franz	Hemmera	Franz
Screen depth (m)							0.6 – 3	0.6 – 3	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5
Benzene				200	5	5	5.8	<0.5	3	<0.5	<0.5	<1
Ethylbenzene	11000	2.4	2.4	1.1	<0.5	1.1	1.2	<0.5	<1	<0.5	0.4	<0.5
Styrene	72	-	720	<0.1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.1	<0.5
Toluene	83	24	24	2.8	<0.5	3	<0.5	<0.5	1.7	<0.5	0.3	<0.5
m+p-Xylene	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	18000	300	300	2.9	<0.5	2.8	4.4	<0.5	2.9	<0.5	2	<0.5

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34
Station ID				MW08-10	MW08-10	MW08-11	BH08-12	MW08-13	MW08-13
Field label				MW08-10	MW08-10	MW08-11	MW08-12	MW08-13	MW08-13
Duplicate ID									
Date				22/Sep/08	2/Feb/12	22/Sep/08	22/Sep/08	22/Sep/08	13/Feb/12
Lab report ID				90923148	12V571329	90923148	90923148	90923148	12V574297
Consultants				Hemmera	Franz	Hemmera	Hemmera	Hemmera	Franz
Screen depth (m)				0.8 – 3.8	0.8 – 3.8	0.8 – 3.8		0.8 – 3.8	0.8 – 3.8
Benzene				200	5	5	<0.1	<0.5	<0.1
Ethylbenzene	11000	2.4	2.4	<0.1	<0.5	<0.1	0.6	<0.1	<0.5
Styrene	72	-	720	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5
Toluene	83	24	24	<0.1	<0.5	<0.1	2	<0.1	<0.5
m+p-Xylene	-	-	-	-	<0.5	-	-	-	-
o-Xylene	-	-	-	-	<0.5	-	-	-	-
Xylenes (total)	18000	300	300	<0.1	-	<0.1	2.7	<0.1	<0.5

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 74
Groundwater Analytical Results - Dissolved Metals
Lot 6, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	23
Station ID				BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-09M
Field label				BV-11BH-01M	BV-11BH-02M	BV-GWDUP1	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-09M
Duplicate ID										
Date				3/Feb/12	2/Feb/12	2/Feb/12	1/Feb/12	1/Feb/12	1/Feb/12	3/Feb/12
Lab report ID				12V571615	12V571329	12V571329	12V570940	12V570940	12V570940	12V571615
Consultants										
Screen depth (m)				3.05 – 4.57	3.05 – 4.57	3.05 – 4.57	2.44 – 3.96	1.52 – 3.05	2.44 – 3.96	2.29 – 3.81
pH	7 to 8.7	6.5 to 8.5	-	6.36	7.16	7.16	7.12	7.4	7.12	6.62
Hardness (CaCO3) (mg/L)	-	-	-	193000	152000	154000	145000	180000	482000	533000
Dissolved Aluminum	5 pH < 6.5 100 pH ≥ 6.5	100	9500	23	4	2	9	10	8	7
Dissolved Antimony	1600	6	6	0.14	0.06	<0.05	<0.05	0.06	0.06	0.09
Dissolved Arsenic	5	10	10	33.3	26.0	25.9	2.6	13.5	82.7	28.3
Dissolved Barium	500	1000	1000	104.0	58.1	58.4	30.0	43.4	199.0	234.0
Dissolved Beryllium	5.3	-	53	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dissolved Boron	5000	5000	5000	64	128	129	16	57	42	243
Dissolved Cadmium	0.017	5	0.5 to 0.6	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01
Dissolved Calcium	-	-	-	58300	45600	46000	31500	22700	153000	145000
Dissolved Chromium	8.9	50	10	4.7	1.2	1.2	1.0	1.4	1.9	1.5
Dissolved Cobalt	-	-	40	1.67	0.15	0.14	0.85	0.56	0.57	3.96
Dissolved Copper	2	1000	20	0.9	0.4	0.2	0.6	0.8	0.6	0.6
Dissolved Iron	300	300	6500	95300	37200	37800	9820	18000	43100	48900
Dissolved Lead	2	10	10	0.10	0.03	<0.01	0.04	0.25	0.03	0.15
Dissolved Lithium	-	-	730	3.8	2.1	2.0	0.7	2.0	2.2	3.6
Dissolved Magnesium	-	-	100000	11400	9370	9470	16200	30000	24200	41500
Dissolved Manganese	-	50	550	2540	1630	1640	123	386	2520	2070
Dissolved Mercury	0.016	1	1	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	<0.003
Dissolved Molybdenum	73	-	250	0.63	0.57	0.32	0.62	0.47	0.56	1.07
Dissolved Nickel	83	-	83	1.7	0.7	0.2	2.4	1.4	1.2	3.9
Dissolved Selenium	1	10	10	<0.1	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Dissolved Silver	0.1	-	15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dissolved Sodium	-	200000	200000	8860	9310	9420	4980	5770	14400	71800
Dissolved Thallium	0.8	-	3	0.011	<0.002	<0.002	<0.002	<0.002	<0.002	0.022
Dissolved Titanium	100	-	1000	91.7	58.3	58.3	39.8	30.9	194.0	178.0
Dissolved Uranium	300	20	20	0.03	0.01	<0.01	0.01	0.06	0.06	0.30
Dissolved Vanadium	-	-	-	7.7	0.8	0.9	1.0	2.0	2.4	1.1
Dissolved Zinc	10	5000	100	8	7	2	3	15	8	7

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 75
Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons in Groundwater
Lot 6, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	22	23	25, 30,34
Station ID				BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	BV-11BH-08M	BV-11BH-09M	MW06-2
Field label				BV-11BH-01M	BV-11BH-02M	BV-GWDUP1	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	BV-11BH-08M	BV-11BH-09M	MW06-2
Duplicate ID					BV-GWDUP1	BV-11BH-02M							
Date				3/Feb/12	2/Feb/12	2/Feb/12	1/Feb/12	1/Feb/12	1/Feb/12	2/Feb/12	3/Feb/12	3/Feb/12	2/Feb/12
Lab report ID				12V571615	12V571329	12V571329	12V570940	12V570940	12V570940	12V571329	12V571615	12V571615	12V571329
Consultants				Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Screen depth (m)				3.05 – 4.57	3.05 – 4.57	3.05 – 4.57	2.44 – 3.96	1.52 – 3.05	2.44 – 3.96	0.91 – 2.44	2.29 – 3.81	2.29 – 3.81	
Acenaphthene	5.8	-	60	3.98	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	0.05
Acenaphthylene	46	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acridine	0.05	-	0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	0.012	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[a]anthracene	0.018	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
Benzo[a]pyrene	0.015	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
Benzo[b]fluoranthene	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
Benzo[ghi]perylene	0.17	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	0.48	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	1.4	-	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
Dibenzo[a,h]anthracene	0.26	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	0.04	-	2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27
Fluorene	3	-	120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.18	<0.05	<0.05	<0.05
Indeno[1,2,3-cd]pyrene	0.21	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	1.1	-	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.49	0.07
Phenanthrene	0.4	-	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05
Pyrene	0.025	-	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.29
Quinoline	3.4	-	34	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 30,34	25, 30,34	25, 30,34	25, 30,34
Station ID				MW07-6	MW07-7	MW07-8	MW08-13
Field label				MW07-6	MW07-7	MW07-8	MW08-13
Duplicate ID							
Date				2/Feb/12	3/Feb/12	3/Feb/12	13/Feb/12
Lab report ID				12V571329	12V571615	12V571615	12V574297
Consultants				Franz	Franz	Franz	Franz
Screen depth (m)				0.6 – 3	0.5 – 3.5	0.5 – 3.5	0.8 – 3.8
Acenaphthene	5.8	-	60	<0.05	5.43	<0.05	<0.05
Acenaphthylene	46	-	-	<0.05	0.06	<0.05	<0.05
Acridine	0.05	-	0.5	<0.05	0.40	<0.05	<0.05
Anthracene	0.012	-	1	<0.05	0.27	<0.05	<0.05
Benzo[a]anthracene	0.018	-	1	<0.05	<0.05	<0.05	<0.05
Benzo[a]pyrene	0.015	0.01	0.01	<0.01	<0.01	<0.01	<0.01
Benzo[b]fluoranthene	-	-	-	<0.05	<0.05	<0.05	<0.05
Benzo[ghi]perylene	0.17	-	-	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	0.48	-	-	<0.05	<0.05	<0.05	<0.05
Chrysene	1.4	-	1	<0.05	<0.05	<0.05	<0.05
Dibenzo[a,h]anthracene	0.26	-	-	<0.05	<0.05	<0.05	<0.05
Fluoranthene	0.04	-	2	<0.05	1.06	<0.05	<0.05
Fluorene	3	-	120	<0.05	3.89	<0.05	<0.05
Indeno[1,2,3-cd]pyrene	0.21	-	-	<0.05	<0.05	<0.05	<0.05
Naphthalene	1.1	-	10	0.07	1.08	<0.05	0.05
Phenanthrene	0.4	-	3	<0.05	5.65	<0.05	<0.05
Pyrene	0.025	-	0.2	<0.02	0.52	<0.02	<0.02
Quinoline	3.4	-	34	<0.1	0.2	<0.1	<0.1

Notes

All units in ug/L.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)
 Bold indicates parameter exceeds Canadian DW Quality. (Current as of 9-November-2012)
 Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 76
Groundwater Analytical Results - Petroleum Hydrocarbons
Lot 6, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	22	23	25, 30,34
Station ID				BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	BV-11BH-08M	BV-11BH-09M	MW06-2
Field label				BV-GWDUP1	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	BV-11BH-08M	BV-11BH-09M	MW06-2	
Duplicate ID													
Date				3/Feb/12	2/Feb/12	2/Feb/12	1/Feb/12	1/Feb/12	1/Feb/12	2/Feb/12	3/Feb/12	3/Feb/12	5/Jul/06
Lab report ID				12V571615	12V571329	12V571329	12V570940	12V570940	12V570940	12V571329	12V571615	12V571615	405-003.04 water
Consultants				Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Hemmera
Screen depth (m)				3.05 – 4.57	3.05 – 4.57	3.05 – 4.57	2.44 – 3.96	1.52 – 3.05	2.44 – 3.96	0.91 – 2.44	2.29 – 3.81	2.29 – 3.81	
EPH (C10-C19)	-	-	5000	140	<100	<100	<100	<100	<100	550	<100	130	2900
EPH (C19-C32)	-	-	-	150	<100	<100	<100	<100	<100	390	<100	140	350
LEPH	-	-	500	140	<100	<100	<100	<100	<100	550	<100	130	2900
HEPH	-	-	-	150	<100	<100	<100	<100	<100	390	<100	140	350
VH C6-C10	-	-	15000	<100	<100	<100	<100	<100	<100	200	-	-	2400
VPH (VH6-10) minus BTEX	-	-	1500	<100	<100	<100	<100	<100	<100	200	-	-	2400
F1 (C6-C10)	-	-	-	<100	<100	<100	<100	<100	<100	200	-	-	-
F1 (C6-C10) minus BTEX	9100	-	-	<100	<100	<100	<100	<100	<100	200	-	-	-
F2 (C10-C16)	1300	-	-	<100	<100	<100	<100	<100	<100	300	<100	<100	-
F3 (C16-C34)	-	-	-	100	<100	<100	<100	<100	<100	100	<100	<100	-
F4 (C34-C50)	-	-	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	-

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 30,34	25, 30,34	25, 32	25, 30,34	25, 30,34	25, 30,34	25, 30,34	25, 30,34	
Station ID				MW06-2	MW06-2	MW06-3	MW07-6	MW07-6	MW07-7	MW07-7	MW07-8	MW07-8
Field label				MW06-2	MW06-2	MW06-3	MW07-6	MW07-6	MW07-7	MW07-7	MW07-8	
Duplicate ID												
Date				22/Sep/08	2/Feb/12	7/May/06	16/Aug/07	2/Feb/12	16/Aug/07	3/Feb/12	16/Aug/07	3/Feb/12
Lab report ID				405-003.04 water	12V571329	405-003.04 water	80817037	12V571329	80817037	12V571615	80817037	12V571615
Consultants				Hemmera	Franz	Hemmera	Hemmera	Franz	Hemmera	Franz	Hemmera	Franz
Screen depth (m)							0.6 – 3	0.6 – 3	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5	0.5 – 3.5
EPH (C10-C19)	-	-	5000	870	1640	<250	2300	360	1700	860	1400	<100
EPH (C19-C32)	-	-	-	<250	140	<250	<250	<100	300	130	<250	<100
LEPH	-	-	500	-	1640	<250	-	360	-	860	-	<100
HEPH	-	-	-	140	140	<250	-	<100	-	130	-	<100
VH C6-C10	-	-	15000	1000	790	2600	3600	730	1700	270	590	<100
VPH (VH6-10) minus BTEX	-	-	1500	990	790	2600	3600	730	1700	270	590	<100
F1 (C6-C10)	9100	-	-	-	300	-	-	200	-	100	-	<100
F1 (C6-C10) minus BTEX	-	-	-	-	300	-	-	200	-	100	-	<100
F2 (C10-C16)	1300	-	-	-	800	-	-	400	-	700	-	<100
F3 (C16-C34)	-	-	-	-	<100	-	-	<100	-	100	-	<100
F4 (C34-C50)	-	-	-	-	<100	-	-	<100	-	<100	-	<100

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 32	25, 32	25, 32	25, 32	25, 32	25, 32
Station ID				MW08-10	MW08-10	MW08-11	BH08-12	MW08-13	MW08-13
Field label				MW08-10	MW08-10	MW08-11	MW08-12	MW08-13	MW08-13
Duplicate ID									
Date				22/Sep/08	2/Feb/12	22/Sep/08	22/Sep/08	22/Sep/08	13/Feb/12
Lab report ID				90923148	12V571329	90923148	90923148	90923148	12V574297
Consultants				Hemmera	Franz	Hemmera	Hemmera	Hemmera	Franz
Screen depth (m)				0.8 – 3.8	0.8 – 3.8	0.8 – 3.8	0.8 – 3.8	0.8 – 3.8	0.8 – 3.8
EPH (C10-C19)	-	-	5000	<250	-	<250	1900	<250	110
EPH (C19-C32)	-	-	-	<250	-	<250	<250	<250	<100
LEPH	-	-	500	-	-	-	-	-	110
HEPH	-	-	-	-	-	-	-	-	<100
VH C6-C10	-	-	15000	<100	<100	<100	790	<100	<100
VPH (VH6-10) minus BTEX	-	-	1500	<100	<100	<100	780	<100	<100
F1 (C6-C10)	9100	-	-	-	-	-	-	-	<100
F1 (C6-C10) minus BTEX	-	-	-	-	-	-	-	-	<100
F2 (C10-C16)	1300	-	-	-	-	-	-	-	<100
F3 (C16-C34)	-	-	-	-	-	-	-	-	<100
F4 (C34-C50)	-	-	-	-	-	-	-	-	<100

Notes

All units in ug/L.

“-” indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Canadian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 77
Groundwater Analytical Results - Phenols/Chlorophenols
Lot 6, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Candian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	23
Station ID				BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-09M
Field label				BV-11BH-01M	BV-11BH-02M	BV-GWDUP1	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-09M
Duplicate ID					BV-GWDUP1	BV-11BH-02M				
Date				3/Feb/12	2/Feb/12	2/Feb/12	1/Feb/12	1/Feb/12	1/Feb/12	3/Feb/12
Lab report ID				12V571615	12V571329	12V571329	12V570940	12V570940	12V570940	12V571615
Consultants				Franz	Franz	Franz	Franz	Franz	Franz	Franz
Screen depth (m)				3.05 – 4.57	3.05 – 4.57	3.05 – 4.57	2.44 – 3.96	1.52 – 3.05	2.44 – 3.96	2.29 – 3.81
pH (pH units)				7 to 8.7	6.5 to 8.5	-	6.36	7.16	7.16	7.12
4-Chloro-3-methylphenol	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorophenol	4400	-	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
o-Cresol	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m+p-Cresol	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol	0.2	0.3	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-Dichlorophenol	-	-	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	2100	-	730	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrophenol	150	-	-	<5	<5	<5	<5	<5	<5	<5
Dinoseb	0.05	10	10	<5	<5	<5	<5	<5	<5	<5
2-Methyl 4,6-dinitrophenol	-	-	3.7	<5	<5	<5	<5	<5	<5	<5
2-Nitrophenol	-	-	-	<5	<5	<5	<5	<5	<5	<5
4-Nitrophenol	-	-	-	<5	<5	<5	<5	<5	<5	<5
Pentachlorophenol	0.5	30	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenol	4	-	10	<2	<2	<2	<2	<2	<2	<2
2,3,4,5-Tetrachlorophenol	-	-	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6-Tetrachlorophenol	1	1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,5,6-Tetrachlorophenol	-	-	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4-Trichlorophenol	-	-	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,5-Trichlorophenol	-	-	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,6-Trichlorophenol	-	-	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-Trichlorophenol	63	-	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	18	2	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3,4,5-Trichlorophenol	-	-	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)

Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)

Table 78
Groundwater Analytical Results - Volatile Organic Compounds
Lot 6, Surrey-Brownsville Site

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	25, 26, 27, 30	21	25, 30,34	25, 30,34	25, 30,34
Station ID				BV-11BH-01M	BV-11BH-02M	BV-11BH-02M	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	MW06-2	MW07-6	MW07-7
Field label				BV-11BH-01M	BV-11BH-02M	BV-GWDUP1	BV-11BH-03M	BV-11BH-04M	BV-11BH-05M	BV-11BH-07M	MW06-2	MW07-6	MW07-7
Duplicate ID					BV-GWDUP1	BV-11BH-02M							
Date				3/Feb/12	2/Feb/12	2/Feb/12	1/Feb/12	1/Feb/12	1/Feb/12	2/Feb/12	2/Feb/12	2/Feb/12	3/Feb/12
Lab report ID				12V571615	12V571329	12V571329	12V570940	12V570940	12V570940	12V571329	12V571329	12V571329	12V571615
Consultants				Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz	Franz
Screen depth (m)				3.05 – 4.57	3.05 – 4.57	3.05 – 4.57	2.44 – 3.96	1.52 – 3.05	2.44 – 3.96	0.91 – 2.44		0.6 – 3	0.5 – 3.5
Methyl tert-butyl ether	4300	15	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 30,34	25, 30,34	25, 30,34
Station ID				MW07-8	MW08-10	MW08-13
Field label				MW07-8	MW08-10	MW08-13
Duplicate ID						
Date				3/Feb/12	2/Feb/12	13/Feb/12
Lab report ID				12V571615	12V571329	12V574297
Consultants				Franz	Franz	Franz
Screen depth (m)				0.5 – 3.5	0.8 – 3.8	0.8 – 3.8
Methyl tert-butyl ether	4300	15	15	<1	<1	<1

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 9-November-2012)

Bold indicates parameter exceeds Candian DW Quality. (Current as of 9-November-2012)


Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 9-November-2012)


APPENDICES


APPENDIX A


SITE VISIT PHOTOGRAPHS


Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 1		
Date: December 12, 2011		
Direction Photo taken: East		
Description: Drilling borehole MV-11BH-06		


Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 2		
Date: December 13, 2011		
Direction Photo taken: East		
Description: Cutting through the asphalt at the location of MV-11BH-15M		

Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 3		
Date: December 14, 2011		
Direction Photo taken: Northwest		
Description: Drilling borehole BV-11BH-09M		

Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 4		
Date: December 15, 2011		
Direction Photo taken: Southwest		
Description: Drilling borehole BV-11BH-03M		

Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 5		
Date: December 17, 2011		
Direction Photo taken: West		
Description: Drilling borehole BV-11BH-05M		

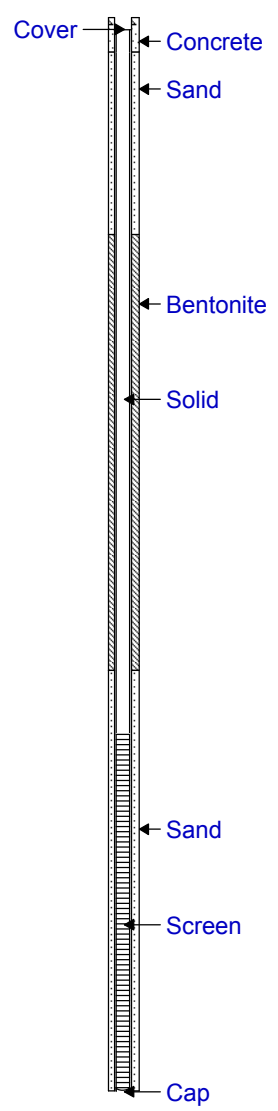
Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 6		
Date: February 10, 2011		
Direction Photo taken: n/a		
Description: Groundwater sampling at MV-11BH-15M		

Client Name: Vancouver Fraser Port Authority	Site Location: Brownsville/Mountainview	Project No. 2090-1103
Photo No. 7		
Date: February 14, 2011		
Direction Photo taken: n/a		
Description: Groundwater sampling at 3-BH10		





APPENDIX B

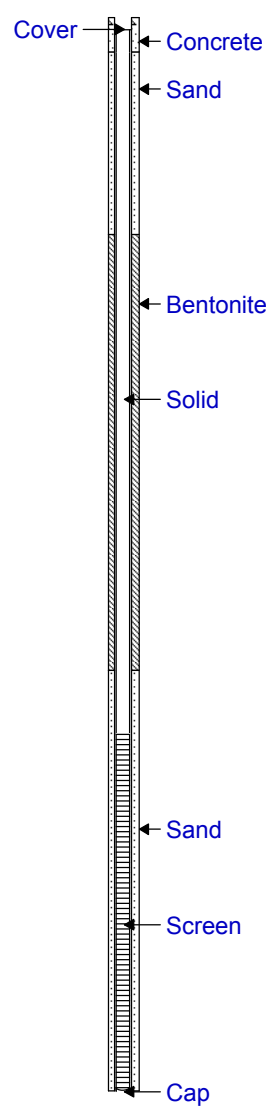
BOREHOLE LOGS

SUBSURFACE PROFILE				SAMPLE					Well Completion Details											
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm													
							200	600		1000	1400	1800								
0		Ground Surface	0.0																	
0	[Dotted pattern]	Fine to Medium Sand grey, medium dense, dry to moist		1		G														
1				2		G	50													
2				3																
3																				
4																				
5																				
6			2.0	3		G	65													
7	[Dotted pattern]	Silty Sand grey, medium dense, moist		4		G	55													
8																				
9																				
10			3.0																	
11	[Dotted pattern]	Sandy Silt grey, medium dense, moist to wet		5	BV-DUP5	G	50													
12																				
13																				
14			4.5																	
15		End of Borehole																		


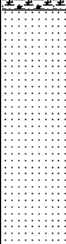
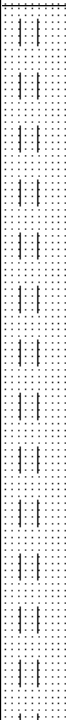


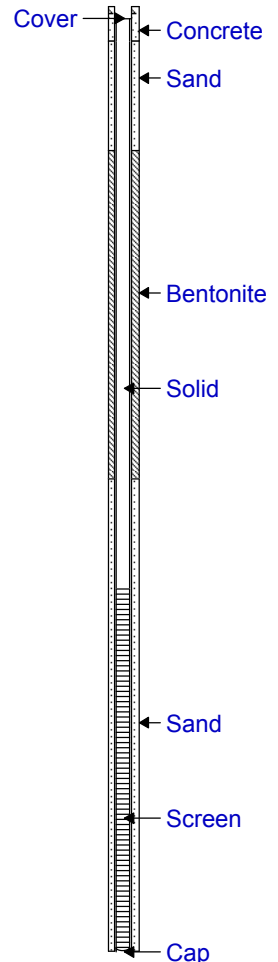
Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 14, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details									
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm											
							200	600		1000	1400	1800						
0		Ground Surface	0.0															
0		Asphalt	0.15															
1		Medium Sand dark brown, loose, dry to moist		1		G	30											
2				2		G	30											
3																		
4			1.5															
5		Silty Sand grey, medium dense, moist to wet		3		G	65											
6																		
7																		
8				4		G	40											
9																		
10			3.0															
11		Sandy Silt grey, medium dense, wet		5		G	35											
12																		
13				6		G	35											
14			4.5															
15		End of Borehole																



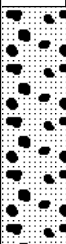
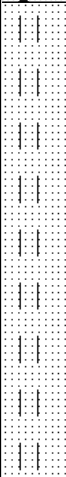
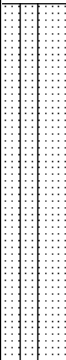
Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 16, 2011	Sheet: 1 of 1

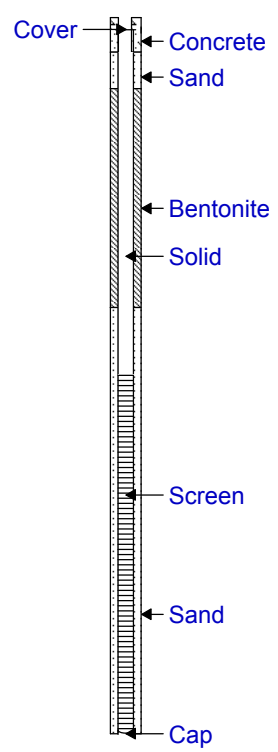
SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Wood Fragments and Organics																	
0.5																			
1		Medium Sand brown, loose, dry		1		G	75												
1.5																			
2		Silty Sand dark grey, medium dense, moist to wet		2		G	180												
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15		End of Borehole	4.5	5		G	35												



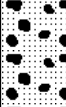
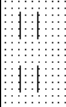
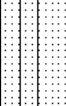
Drilled By: Rocky Mountain Soil Sampling
 Drill Method: Solid Stem Auger
 Drill Date: December 15, 2011

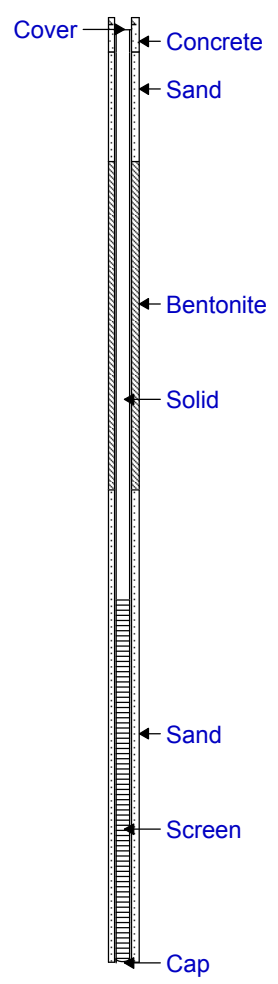
Hole Diameter: 6"
 Well Diameter: 2"
 Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details									
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm											
							200	600		1000	1400	1800						
0		Ground Surface	0.0															
0		Sand and Gravel brown, loose, dry		1		G												
1				2														
2																		
3		Silty Sand grey, medium dense, moist 1.5m - 3m: wet		3	BV-DUP9	G		65 x										
4				4														
5																		
6																		
7																		
8																		
9																		
10		Sandy Silt grey, medium dense, wet		5		G		50 x										
11				6														
12																		
13																		
14																		
15		End of Borehole																



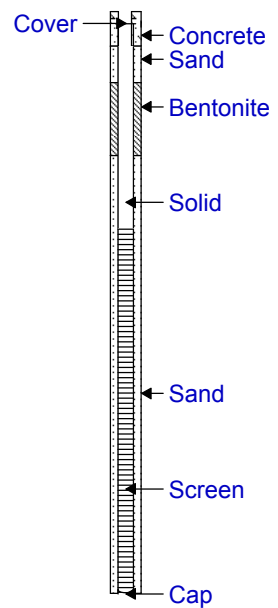
Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 17, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details											
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm													
							200	600		1000	1400	1800								
0		Ground Surface	0.0																	
0		Sand and Gravel trace silt, brown, loose, dry	0.5	1		G														
1		Silty Sand brown, medium dense, moist		2		G	35													
2																				
3																				
4																				
5																				
6				3		G	45													
7																				
8				4		G	60													
9		3.0m: wet																		
10			3.0																	
11		Sandy Silt grey, medium dense, wet		5	BV-DUP10	G	70													
12																				
13																				
14				6		G	30													
15		End of Borehole	4.5																	



Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 17, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Medium Sand trace gravel, grey, loose, dry to moist, slight hydrocarbon odour		1	BV-DUP8	G	40												
1				2		G	55												
2			1.5																
3																			
4																			
5		Silty Sand trace wood debris, dark grey, medium dense, wet		3		G	35												
6			2.0																
7		Wood Fragments																	
8				4															
9																			
10			3.0																
11		Silt grey, medium dense, moist to wet		5		G	15												
12																			
13			4.0																
14		End of Borehole																	
15																			



Drilled By: Rocky Mountain Soil Sampling


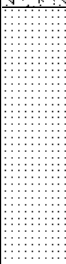
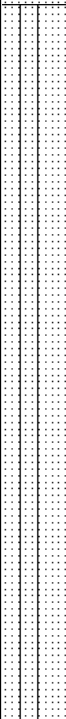
Drill Method: Solid Stem Auger

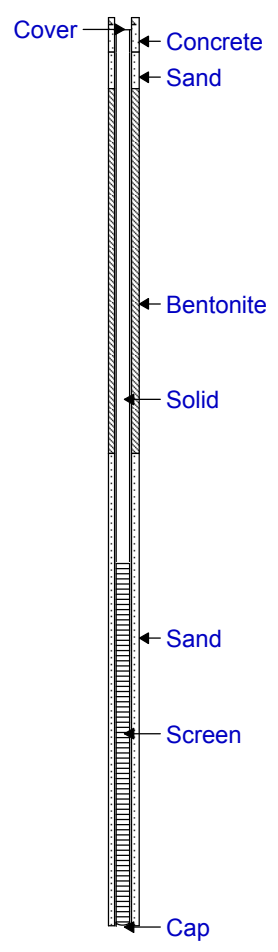
Drill Date: December 17, 2011

Hole Diameter: 6"

Well Diameter: 2"

Sheet: 1 of 1

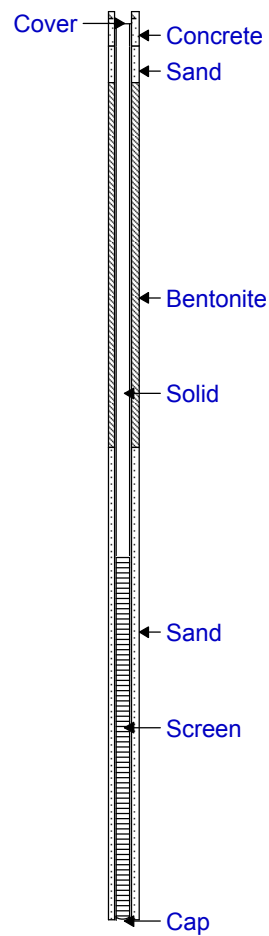
SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Concrete																	
0.36																			
1		Medium Sand dark grey, loose, dry to moist		1		G	55	x											
2				2		G	35	x											
3																			
4			1.5																
5		Sandy Silt grey, medium dense, moist		3		G	40	x											
6																			
7																			
8		2.5m - 3m: soft, wet		4		G	30	x											
9																			
10																			
11																			
12				5		G	35	x											
13																			
14				6		G	50	x											
15		End of Borehole	4.5																



Drilled By: Rocky Mountain Soil Sampling
 Drill Method: Solid Stem Auger
 Drill Date: December 16, 2011

Hole Diameter: 6"
 Well Diameter: 2"
 Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0	■	Asphalt																	
1	●	Silty Sand some organics, black, medium dense, moist	0.5	1		G	60												
2	○	Sandy Silt wood fragments throughout, black, medium dense, moist		2		G	65												
3																			
4			1.5																
5	■	Wood Fragments some silt, brown, medium dense, moist		3		G	100												
6			2.0																
7	○	Silt some organics, brownish grey, medium dense, moist		4		G	65												
8																			
9			3.0																
10	○	Sandy Silt grey, medium dense, wet		5		G	55												
11																			
12				6		G													
13			4.5																
14																			
15		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling


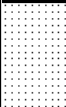
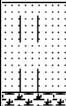

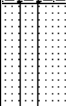
Drill Method: Solid Stem Auger

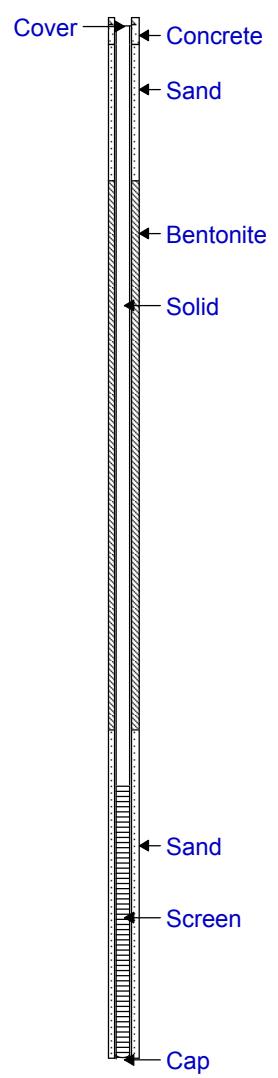
Drill Date: December 14, 2011

Hole Diameter: 6"

Well Diameter: 2"

Sheet: 1 of 1

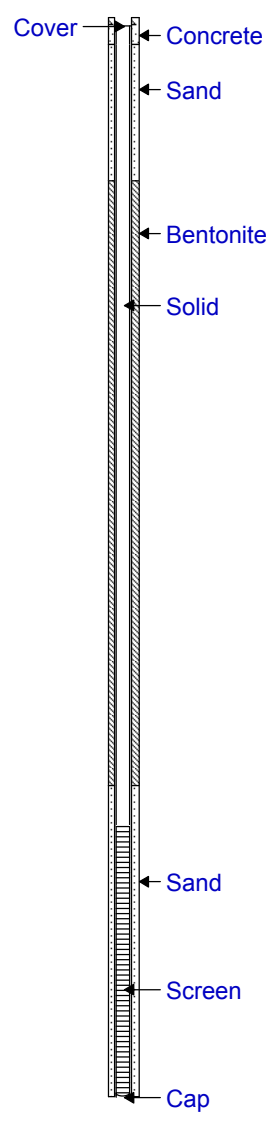
SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Asphalt																	
1		Medium Sand brown, loose, dry to moist																	
2																			
3																			
4				1		G													
5																			
6																			
7																			
8			2.5																
9		Silty Sand grey, medium dense, moist		2		G													
10																			
11		Wood Fragments and Organics some silt, brown, medium dense, moist		3		G													
12																			
13																			
14																			
15			4.5																
16		Sandy Silt grey, loose, wet		4	MV-DUP6	G													
17																			
18				5		G													
19																			
20			6.0																
		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling
 Drill Method: Solid Stem Auger
 Drill Date: December 15, 2011

Hole Diameter: 6"
 Well Diameter: 2"
 Sheet: 1 of 1

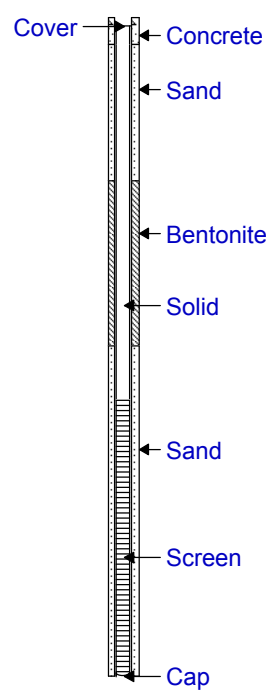
SUBSURFACE PROFILE				SAMPLE					Well Completion Details											
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm													
							200	600		1000	1400	1800								
0		Ground Surface	0.0																	
0		Medium Sand some gravel, brown, loose, dry																		
1				1		G														
2		0m - 0.5m: little to no recovery																		
3																				
4																				
5																				
6			2.0	2		G	15													
7		Silty Sand trace organics, brown, medium dense, dry to moist																		
8				3		G	30													
9																				
10																				
11																				
12				4		G	130													
13																				
14																				
15		4.5m - 6m: wet																		
16				5		G	35													
17																				
18				6		G	35													
19																				
20		End of Borehole	6.0																	



Drilled By: Rocky Mountain Soil Sampling
 Drill Method: Solid Stem Auger
 Drill Date: December 16, 2011






















Hole Diameter: 6"
 Well Diameter: 2"
 Sheet: 1 of 1

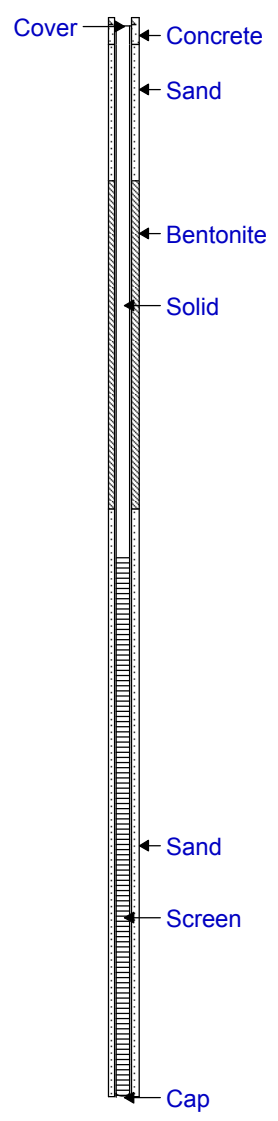
SUBSURFACE PROFILE				SAMPLE					Well Completion Details											
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm													
							200	600		1000	1400	1800								
0		Ground Surface	0.0																	
0	[Dotted Pattern]	Medium Sand brown, loose, dry		1		G														
1				2																
2																				
3																				
4	[Dotted Pattern]	Silty Sand grey, medium dense, moist	1.5	2		G														
5				3																
6																				
7																				
8																				
9		3.0m: wet																		
10	[Dotted Pattern]	Silt grey, medium dense, moist to wet	3.0	3		G	50													
11				4					40											
12																				
13																				
14																				
15																				
16	[Dotted Pattern]			5		G	60													
17				6																
18																				
19																				
20		End of Borehole	6.0																	



Drilled By: Rocky Mountain Soil Sampling
 Drill Method: Solid Stem Auger
 Drill Date: December 16, 2011

Hole Diameter: 6"
 Well Diameter: 2"
 Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Asphalt																	
1		Road Base																	
2		sand and gravel, some cobbles, brown, medium dense, moist																	
3																			
4			1.5	1		G													
5		Silt																	
6		trace organics, grey, medium dense, moist		2		G													
7																			
8				3		G													
9																			
10																			
11				4		G													
12																			
13																			
14				5		G													
15		4.5m to 5m: wood fragments																	
16																			
17																			
18				6		G													
19																			
20			6.0																
		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 16, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE				Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm											
							200		600	1000	1400	1800						
0		Ground Surface	0.0															
0	■	Asphalt	0.15															
1	●	Medium Sand grey, loose, moist		1		G												
2																		
3																		
4				2		G												
5			1.5															
6	▨	Silt some wood waste and organics, brown, medium dense, moist		3		G												
7																		
8				4		G												
9																		
10																		
11																		
12				5		G												
13																		
14																		
15			4.5															
		End of Borehole																

Drilled By: Rocky Mountain Soil Sampling

Drill Method: Solid Stem Auger

Drill Date: December 12, 2011

Hole Diameter: 6"

Well Diameter: n/a

Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE				Well Completion Details										
Depth ft m	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm											
							200	600	1000	1400	1800							
0		Ground Surface	0.0															
0	■	Asphalt	0.1															
1	●	Medium Sand wood fragments, grey, medium dense, moist		1		G												
1	■	Organics wood debris, brown, medium dense, moist	1.0	2		G												
2	■	Silt some wood waste and organics, brown, medium dense, moist	1.5	3		G												
3	■			4		G												
3	■			5		G												
4	■	Clayey Silt grey, medium dense, moist	3.75	6		G												
4	■																	
4.5		End of Borehole	4.5															

Drilled By: Rocky Mountain Soil Sampling


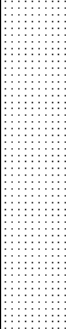

Drill Method: Solid Stem Auger

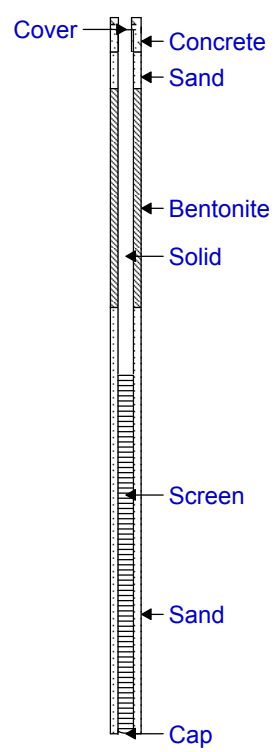
Drill Date: December 12, 2011

Hole Diameter: 6"

Well Diameter: n/a

Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Asphalt																	
1		Medium Sand grey, loose, moist, hydrocarbon odour																	
2		0.1m - 0.5m: no recovery		1		G													
3																			
4				2		G													
5			1.5																
6		Silt some organics and wood waste, brown, medium dense, moist		3		G													
7		1.5m - 3.0m: wet																	
8				4		G													
9																			
10																			
11				5		G													
12																			
13																			
14				6		G													
15			4.5																
		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 13, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE				Well Completion Details
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm 200 600 1000 1400 1800	
0		Ground Surface	0.0					
0		Asphalt						
1		Silt some sand and clay, greyish brown, medium dense, moist		1	MV-DUP1	G		
2				2		G		
3								
4								
5			1.5					
6		Silt some clay, grey, medium dense, moist to wet		3		G		
7		wood fragments throughout						
8				4		G		
9								
10								
11				5		G		
12								
13								
14								
15		End of Borehole	4.5					

Drilled By: Rocky Mountain Soil Sampling

Drill Method: Solid Stem Auger

Drill Date: December 12, 2011

Hole Diameter: 6"

Well Diameter: n/a

Sheet: 1 of 1

Borehole Log: MV-11BH-09

Project No: 2090-1103

Project: Mountainview Reload and Brownsville Site

Client: Port Metro Vancouver

Apec: 9

Logged By: AS

SUBSURFACE PROFILE				SAMPLE					Well Completion Details									
Depth ft m	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm											
							200	600	1000	1400	1800							
0		Ground Surface	0.0															
0		Asphalt	0.15															
1		Sandy Silt brown, medium dense, moist																
2				1		G												
3		0.15 - 0.5m: little to no recovery																
4				2		G												
5			1.5															
6		Silt organics and wood debris, brown, medium dense, moist		3		G												
7																		
8				4		G												
9																		
10																		
11		3.0m - 4.5m: wet		5		G												
12																		
13				6		G												
14																		
15			4.5															
		End of Borehole																

Drilled By: Rocky Mountain Soil Sampling

Hole Diameter: 6"

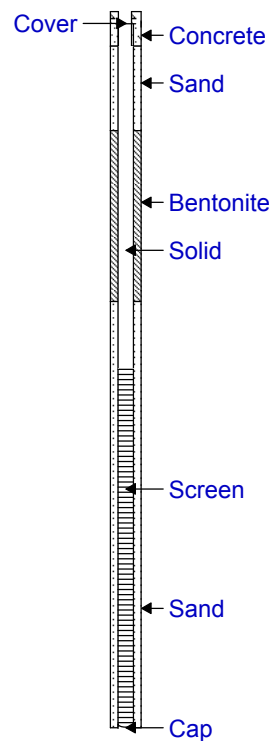
Drill Method: Solid Stem Auger

Well Diameter: n/a

Drill Date: December 13, 2011

Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Asphalt																	
1		Concrete Debris																	
2			0.75																
3		Medium Sand grey, loose, moist		1		G	x												
4				2		G	x	45											
5			1.5																
6		Silt trace sand, brownish grey, medium dense, moist to wet		3		G	x	0											
7																			
8		Silt wood debris, brown, medium dense, moist		4		G	x	0											
9																			
10			2.0																
11																			
12				5		G													
13																			
14																			
15			4.5																
		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling

Drill Method: Solid Stem Auger

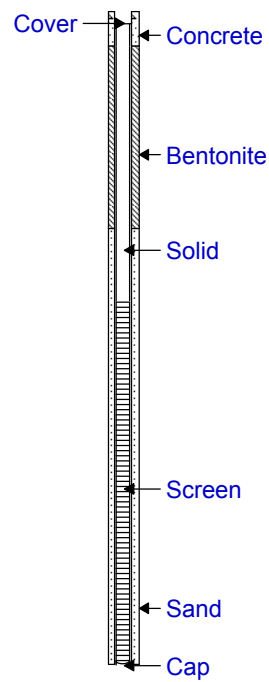
Drill Date: December 12, 2011

Hole Diameter: 6"

Well Diameter: 2"

Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Sandy Silt some organics, brownish grey, loose, moist																	
1																			
2				1	MV-DUP4	G	60	x											
3																			
4			1.5																
5		Silt some organics, brownish grey, medium dense, moist to wet																	
6				2		G	60	x											
7																			
8				3		G	60	x											
9																			
10																			
11				4		G	100	x											
12																			
13																			
14			4.5																
15		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling

Drill Method: Solid Stem Auger

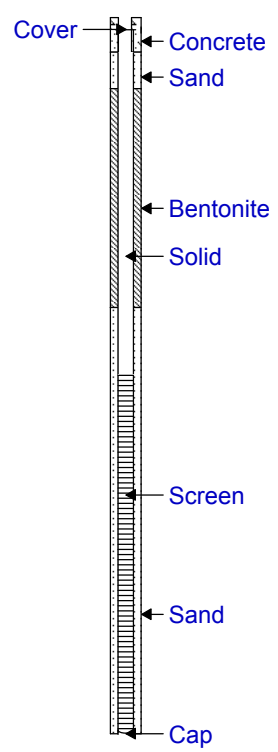
Drill Date: December 14, 2011

Hole Diameter: 6"


Well Diameter: 2"

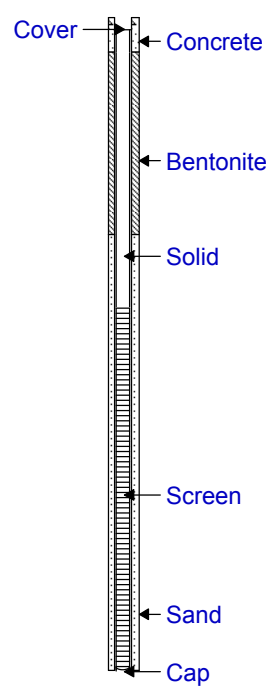
Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Silt and Wood Fragments brown, medium dense, moist																	
1																			
2				1		G	70												
3																			
4		1.5m - 4.5m: moist to wet																	
5																			
6				2		G	80												
7																			
8																			
9																			
10				3		G	55												
11																			
12																			
13																			
14																			
15		End of Borehole	4.5																


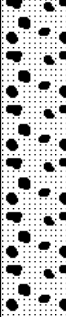
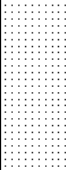



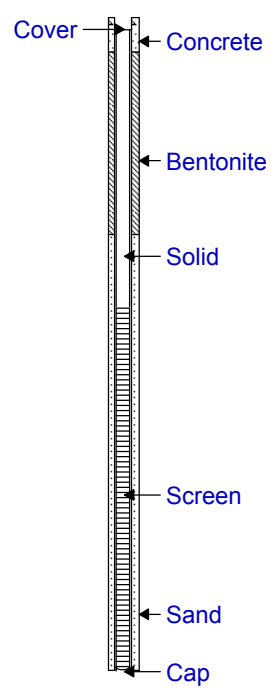
Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 14, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Wood Fragments trace sand, brown, loose, moist		1		G	65	x											
1																			
2																			
3																			
4		Silt some wood waste, brown, medium dense, wet	1.5	2		G	55	x											
5																			
6																			
7																			
8		3.0m -4.5m: moist		3		G	55	x											
9																			
10																			
11																			
12		End of Borehole	4.5	4		G	100	x											
13																			
14																			
15																			



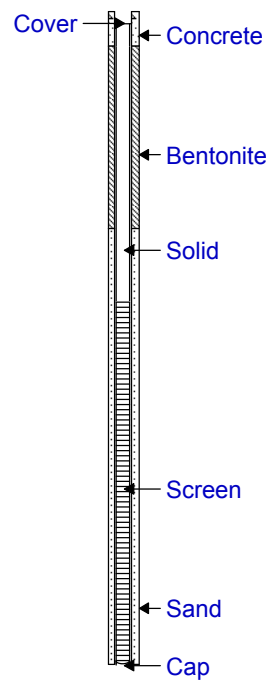
Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 14, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Asphalt																	
1		Medium Sand and Gravel greyish brown, loose, dry to moist																	
2		little to no recovery to 0.5m		1		G	35												
3																			
4			1.5	2		G	30												
5		Medium Sand some silt, gravel and organics, greyish brown, loose, wet																	
6				3		G	50												
7			2.25																
8		Silt some organics and wood debris, brown, medium dense, moist																	
9				4		G	45												
10																			
11																			
12				5		G	35												
13																			
14																			
15		End of Borehole	4.5																



Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 13, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0	■	Asphalt																	
0	●	Medium Sand grey, loose, moist																	
1				1		G													
2																			
3																			
3			1.5	2		G													
4																			
5		Silt some organics and wood debris, grey, medium dense, moist to wet		3	MV-DUP3	G													
6																			
7																			
8				4		G													
9																			
10																			
10		3.0 - 4.5m: some clay																	
11																			
12				5		G													
13																			
13																			
14																			
14			4.5																
15		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling






Drill Method: Solid Stem Auger

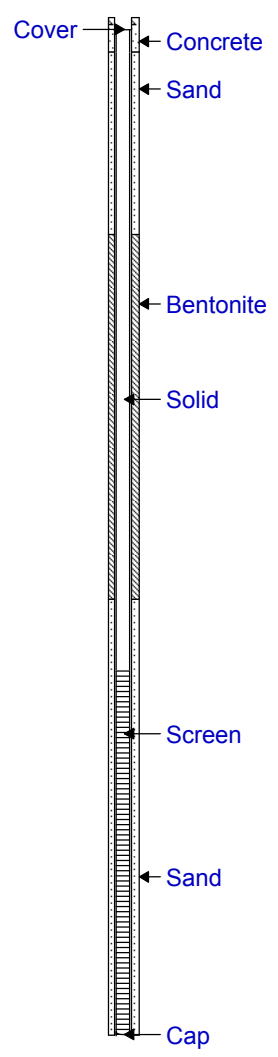
Drill Date: December 13, 2011

Hole Diameter: 6"



Well Diameter: 2"

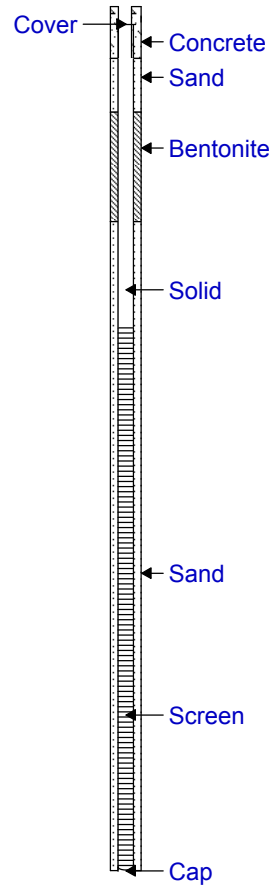
Sheet: 1 of 1

SUBSURFACE PROFILE				SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm												
							200	600		1000	1400	1800							
0		Ground Surface	0.0																
0		Asphalt																	
1		Medium Sand grey, loose, dry to moist																	
2		very little recovery to 0.5m		1	MV-DUP2	G	50												
3			1.0																
4		Sandy Silt grey, medium dense, moist																	
5		10% recovery	1.5																
6		Silt some clay, grey, dense, moist		2		G	70												
7																			
8				3		G	30												
9																			
10			3.0																
11		Silt grey, dense, wet		4		G	55												
12																			
13				5		G	130												
14			4.5																
15		End of Borehole																	



Drilled By: Rocky Mountain Soil Sampling	Hole Diameter: 6"
Drill Method: Solid Stem Auger	Well Diameter: 2"
Drill Date: December 13, 2011	Sheet: 1 of 1

SUBSURFACE PROFILE			SAMPLE					Well Completion Details										
Depth	Symbol	Description	Depth/Elev.	Sample No.	Duplicate	Type	Vapour ppm											
							200		600	1000	1400	1800						
0		Ground Surface																
0		Asphalt	0.15															
1		Concrete Debris some sand, grey, dry to moist		1		G	15											
4		Silt grey, medium dense, moist	1.22	2		G	45											
6				3		G	30											
8				4		G	0											
10		End of Borehole	3.0															



Drilled By: Rocky Mountain Soil Sampling

Drill Method: Solid Stem Auger

Drill Date: December 15, 2011

Hole Diameter: 6"

Well Diameter: 2"

Sheet: 1 of 1

APPENDIX C

DUPLICATE ANALYSIS (QA/QC) - SOIL

Station ID	RDL	BV-11BH-07M	BV-11BH-07M	RPD	MV-11BH-01M	MV-11BH-01M	RPD	MV-11BH-11M	MV-11BH-11M	RPD
Field label		BV-11BH-07M-2	BV-DUP8		MV-11BH-01M-4	MV-Dup		MV-11BH-11M-1	MV-Dup4	
Duplicate ID		BV-DUP8	BV-11BH-07M-2		MV-Dup	MV-11BH-01M-4		MV-Dup4	MV-11BH-11M-1	
Date		19/Dec/11	19/Dec/11		16/Dec/11	16/Dec/11		15/Dec/11	15/Dec/11	
Depth (m)		0.5 – 1	0.5 – 1		4.5 – 5	4.5 – 5		0.5 – 1	0.5 – 1	
Benzene	0.005	<0.005	<0.005	NC	<0.025	<0.025	NC	<0.005	<0.005	NC
Ethylbenzene	0.01	<0.01	<0.01	NC	<0.025	<0.025	NC	<0.01	<0.01	NC
Styrene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Toluene	0.05	<0.05	<0.05	NC	<0.025	<0.025	NC	0.10	<0.05	NC
m+p-Xylene	0.05	<0.05	<0.05	NC	<0.025	<0.025	NC	<0.05	<0.05	NC
o-Xylene	0.05	<0.05	<0.05	NC	<0.025	<0.025	NC	<0.05	<0.05	NC
Xylenes (total)	0.05	<0.05	<0.05	NC	-	-	-	<0.05	<0.05	NC

Notes

All units in ug/g.

"-" indicates that there is no applicable regulation or analyses were not performed.

"NC" indicates RPD not calculated due to the sample or its duplicate value being less than method detection limits.

Station ID	RDL	BV-11BH-07M	BV-11BH-07M	RPD	MV-11BH-11M	MV-11BH-11M	RPD	MV-11BH-16M	MV-11BH-16M	RPD
Field label		BV-11BH-07M-2	BV-DUP8		MV-11BH-11M-1	MV-Dup4		MV-11BH-16M-1	MV-Dup 2	
Duplicate ID		BV-DUP8	BV-11BH-07M-2		MV-Dup4	MV-11BH-11M-1		MV-Dup 2	MV-11BH-16M-1	
Date		19/Dec/11	19/Dec/11		15/Dec/11	15/Dec/11		14/Dec/11	14/Dec/11	
Depth (m)		0.5 – 1	0.5 – 1		0.5 – 1	0.5 – 1		0.5 – 1	0.5 – 1	
HEPH	25	110	33	NC	1100	2600	81%	<25	<25	NC
LEPH	25	30	<25	NC	68	120	NC	<25	<25	NC
VPH (VH6-10) minus BTEX	10	<10	<10	NC	27	<10	NC	-	-	-
F1 (C6-C10)	10	<10	<10	NC	<10	<10	NC	-	<10	NC
F1 (C6-C10) minus BTEX	10	<10	<10	NC	<10	<10	NC	-	<10	NC
F2 (C10-C16)	10	29	13	NC	20	18	NC	<10	<10	NC
F3 (C16-C34)	10	206	136	41%	1150	1030	11%	<10	<10	NC
F4 (C34-C50)	10	92	80	14%	818	760	7%	12	<10	NC

Station ID	RDL	MV-11BH-17M	MV-11BH-17M	RPD
Field label		MV-11BH-17M-3	MV-DUP7	
Duplicate ID		MV-DUP7	MV-11BH-17M-3	
Date		16/Dec/11	16/Dec/11	
Depth (m)		1.5 – 2	1.5 – 2	
HEPH	25	56	49	NC
LEPH	25	<25	<25	NC
VPH (VH6-10) minus BTEX	10	-	-	-
F1 (C6-C10)	10	-	-	-
F1 (C6-C10) minus BTEX	10	-	-	-
F2 (C10-C16)	10	<10	<10	NC
F3 (C16-C34)	10	29	29	NC
F4 (C34-C50)	10	25	21	NC

Notes

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.- indicates that there is no applicable regulation or analyses were not performed.

"NC" indicates RPD not calculated due to the sample or its duplicate value being less than method detection limits.

Station ID		BV-11BH-07M	BV-11BH-07M		MV-11BH-02M	MV-11BH-02M		MV-11BH-11M	MV-11BH-11M	
Field label	RDL	BV-11BH-07M-2	BV-DUP8	RPD	MV-11BH-02M-5	MV-Dup	RPD	MV-11BH-11M-1	MV-Dup4	RPD
Duplicate ID		BV-DUP8	BV-11BH-07M-2		MV-Dup	MV-11BH-02M-5		MV-11BH-11M-1	MV-Dup4	
Date		19/Dec/11	19/Dec/11		16/Dec/11	17/Dec/11		15/Dec/11	15/Dec/11	
Depth (m)		0.5 – 1	0.5 – 1		4.5 – 5	4.5 – 5		0.5 – 1	0.5 – 1	
Bromodichloromethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Bromoform	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Bromomethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Carbon tetrachloride	0.025	-	-	-	<0.025	<0.025	NC	-	-	-
Chlorobenzene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Chlorodibromomethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Chloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Chloroform	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Chloromethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,2-Dichlorobenzene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,3-Dichlorobenzene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,4-Dichlorobenzene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,1-Dichloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,2-Dichloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,1-Dichloroethene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
cis-1,2-Dichloroethene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
trans-1,2-Dichloroethene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Dichloromethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,2-Dichloropropane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
cis-1,3-Dichloropropene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
trans-1,3-Dichloropropene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Ethylene dibromide	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Methyl ethyl ketone	0.5	-	-	-	<0.5	<0.5	NC	-	-	-
Methyl isobutyl ketone	0.5	-	-	-	<0.5	<0.5	NC	-	-	-
Methyl tert-butyl ether	0.05	<0.1	<0.1	NC	<0.1	<0.05	NC	<0.1	<0.1	NC
1,1,1,2-Tetrachloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Tetrachloroethene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,2,4-Trichlorobenzene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,1,1-Trichloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Trichloroethene	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Trichlorofluoromethane	0.05	-	-	-	<0.05	<0.05	NC	-	-	-
Vinyl chloride	0.05	-	-	-	<0.05	<0.05	NC	-	-	-

Notes

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Station ID		BV-11BH-07M	BV-11BH-07M		MV-11BH-11M	MV-11BH-11M		MV-11BH-16M	MV-11BH-16M	
Field label	RDL	BV-11BH-07M-2	BV-DUP8	RPD	MV-11BH-11M-1	MV-Dup4	RPD	MV-11BH-16M-1	MV-Dup 2	RPD
Duplicate ID		BV-DUP8	BV-11BH-07M-2		MV-Dup4	MV-11BH-11M-1		MV-Dup 2	MV-11BH-16M-1	
Date		19/Dec/11	19/Dec/11		15/Dec/11	15/Dec/11		14/Dec/11	14/Dec/11	
Depth (m)		0.5 - 1	0.5 - 1		0.5 - 1	0.5 - 1		0.5 - 1	0.5 - 1	
Acenaphthene	0.01	<0.01	<0.01	NC	0.23	0.30	26%	<0.01	<0.01	NC
Acenaphthylene	0.01	<0.01	<0.01	NC	0.04	0.08	NC	<0.01	<0.01	NC
Anthracene	0.02	<0.02	<0.02	NC	0.30	0.48	46%	<0.02	<0.02	NC
Benzo[a]anthracene	0.02	<0.02	<0.02	NC	0.80	1.00	22%	<0.02	<0.02	NC
Benzo[a]pyrene	0.05	<0.05	<0.05	NC	0.68	0.90	28%	<0.05	<0.05	NC
Benzo[b]fluoranthene	0.02	<0.02	<0.02	NC	0.58	0.88	41%	<0.02	<0.02	NC
Benzo[ghi]perylene	0.05	<0.05	<0.05	NC	0.31	0.30	3%	<0.05	<0.05	NC
Benzo[k]fluoranthene	0.02	<0.02	<0.02	NC	0.29	0.35	19%	<0.02	<0.02	NC
Chrysene	0.05	<0.05	<0.05	NC	0.68	1.00	38%	<0.05	<0.05	NC
Dibenz[a,h]anthracene	0.02	<0.02	<0.02	NC	0.08	0.12	NC	<0.02	<0.02	NC
Fluoranthene	0.05	<0.05	<0.05	NC	1.60	2.30	24%	<0.05	<0.05	NC
Fluorene	0.02	0.03	0.02	NC	0.31	0.44	35%	<0.02	<0.02	NC
Indeno[1,2,3-cd]pyrene	0.02	<0.02	<0.02	NC	0.31	0.38	20%	<0.02	<0.02	NC
2-Methylnaphthalene	0.01	0.14	0.14	0%	0.19	0.21	10%	<0.01	<0.01	NC
Naphthalene	0.01	0.02	0.02	NC	0.32	0.37	14%	<0.01	<0.01	NC
Phenanthrene	0.02	0.07	0.07	NC	1.20	1.90	45%	<0.02	<0.02	NC
Pyrene	0.02	<0.02	0.02	NC	1.60	2.20	32%	<0.02	<0.02	NC

Station ID		MV-11BH-17M	MV-11BH-17M	
Field label	RDL	MV-11BH-17M-3	MV-DUP7	RPD
Duplicate ID		MV-DUP7	MV-11BH-17M-3	
Date		16/Dec/11	16/Dec/11	
Depth (m)		1.5 - 2	1.5 - 2	
Acenaphthene	0.01	<0.01	<0.01	NC
Acenaphthylene	0.01	<0.01	<0.01	NC
Anthracene	0.02	<0.02	<0.02	NC
Benzo[a]anthracene	0.02	<0.02	0.02	NC
Benzo[a]pyrene	0.05	<0.05	<0.05	NC
Benzo[b]fluoranthene	0.02	<0.02	0.02	NC
Benzo[ghi]perylene	0.05	<0.05	<0.05	NC
Benzo[k]fluoranthene	0.02	<0.02	<0.02	NC
Chrysene	0.05	<0.05	<0.05	NC
Dibenz[a,h]anthracene	0.02	<0.02	<0.02	NC
Fluoranthene	0.05	<0.05	<0.05	NC
Fluorene	0.02	<0.02	<0.02	NC
Indeno[1,2,3-cd]pyrene	0.02	<0.02	<0.02	NC
2-Methylnaphthalene	0.01	<0.01	0.01	NC
Naphthalene	0.01	<0.01	0.01	NC
Phenanthrene	0.02	<0.02	0.03	NC
Pyrene	0.02	<0.02	0.03	NC

Notes

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Station ID	RDL	BV-11BH-01M	BV-11BH-01M	RPD	BV-11BH-04M	BV-11BH-04M	RPD	MV-11BH-15M	MV-11BH-15M	RPD
Field label		BV-11BH-01M-5	BV-Dup5		BV-11BH-04M-3	BV-Dup9		MV-11BH-15M-3	MV-Dup 3	
Duplicate ID		BV-Dup5	BV-11BH-01M-5		BV-Dup9	BV-11BH-04M-3		MV-Dup 3	MV-11BH-15M-3	
Date		15/Dec/11	15/Dec/11		19/Dec/11	19/Dec/11		14/Dec/11	14/Dec/11	
Depth (m)		3 – 4	3 – 4		1.5 – 2	1.5 – 2		1.5 – 2	1.5 – 2	
4-Chloro-3-methylphenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2-Chlorophenol	0.002	<0.002	<0.002	NC	<0.002	<0.002	NC	-	-	-
o-Cresol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
m+p-Cresol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,4-Dichlorophenol	0.003	<0.003	<0.003	NC	<0.002	<0.002	NC	-	-	-
2,6-Dichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,4-Dimethylphenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,4-Dinitrophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2-Methyl 4,6-dinitrophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
Dinoseb	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2-Nitrophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
4-Nitrophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
Pentachlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
Phenol	0.002	<0.002	<0.002	NC	<0.002	<0.002	NC	-	-	-
2,3,4,5-Tetrachlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,3,4,6-Tetrachlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,3,5,6-Tetrachlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,3,4-Trichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,3,5-Trichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,3,6-Trichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,4,5-Trichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
2,4,6-Trichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
3,4,5-Trichlorophenol	0.005	<0.005	<0.005	NC	<0.005	<0.005	NC	-	-	-
Total Phenolics	0.050	-	-	-	-	-	-	4.40	2.70	48%

Notes

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Station ID	RDL	BV-11BH-01M	BV-11BH-01M	RPD	BV-11BH-04M	BV-11BH-04M	RPD	BV-11BH-05M	BV-11BH-05M	RPD
Field label		BV-11BH-01M-5	BV-Dup5		BV-11BH-04M-3	BV-Dup9		BV-11BH-05M-5	BV-Dup10	
Duplicate ID		BV-Dup5	BV-11BH-01M-5		BV-Dup9	BV-11BH-04M-3		BV-Dup10	BV-11BH-05M-5	
Date		15/Dec/11	15/Dec/11		19/Dec/11	19/Dec/11		19/Dec/11	19/Dec/11	
Depth (m)		3 – 4	3 – 4		1.5 – 2	1.5 – 2		3 – 4	3 – 4	
Antimony	0.05	0.56	0.64	13%	0.66	0.29	78%	0.48	0.44	9%
Arsenic	0.1	17.2	17.5	2%	7.0	5.4	26%	11.7	14.6	22%
Barium	0.5	87.7	86.9	1%	57.0	54.7	4%	81.0	76.8	5%
Beryllium	0.02	0.34	0.31	9%	0.20	0.18	11%	0.26	0.27	4%
Boron	0.1	0.4	0.4	NC	0.2	0.2	NC	0.2	0.2	NC
Cadmium	0.01	0.31	0.31	0%	0.12	0.12	0%	0.22	0.24	9%
Chromium	1	43	40	7%	30	28	7%	35	34	3%
Cobalt	0.1	11.4	11.0	4%	8.2	7.9	4%	10.6	10.4	2%
Copper	0.2	30.7	30.3	1%	16.7	15.2	9%	27.6	28.1	2%
Lead	0.05	7.65	7.39	3%	3.24	2.89	11%	5.59	6.34	13%
Mercury	0.01	0.06	0.06	0%	0.03	0.02	NC	0.04	0.04	NC
Molybdenum	0.05	0.81	0.80	1%	0.47	0.42	11%	0.58	0.70	19%
Nickel	0.5	37.8	37.5	1%	32.0	31.2	3%	36.4	36.4	0%
Selenium	0.1	0.6	0.6	0%	0.2	0.3	NC	0.4	0.4	NC
Silver	0.05	0.10	0.10	NC	0.06	<0.05	NC	0.07	0.08	NC
Thallium	0.05	0.09	0.09	NC	0.06	<0.05	NC	0.08	0.08	NC
Tin	0.05	0.70	0.93	28%	0.32	0.35	9%	0.49	0.46	6%
Uranium	0.05	0.70	0.69	1%	0.39	0.33	17%	0.54	0.55	2%
Vanadium	1	44	43	2%	41	40	2%	46	44	4%
Zinc	1	66	64	3%	40	41	2%	60	59	2%

Station ID	RDL	MV-11BH-08	MV-11BH-08	RPD
Field label		MV-11BH-08-2	MV-Dup1	
Duplicate ID		MV-Dup1	MV-11BH-08-2	
Date		12/Dec/11	12/Dec/11	
Depth (m)		0.5 – 1	0.5 – 1	
Antimony	0.05	0.42	0.51	19%
Arsenic	0.1	4.5	5.1	13%
Barium	0.5	98.5	119.0	19%
Beryllium	0.02	0.38	0.52	31%
Boron	0.1	0.2	0.2	NC
Cadmium	0.01	0.09	0.09	0%
Chromium	1	39	50	25%
Cobalt	0.1	11.6	13.5	15%
Copper	0.2	18.4	20.8	12%
Lead	0.05	6.54	8.13	22%
Mercury	0.01	0.04	0.04	NC
Molybdenum	0.05	0.51	0.85	50%
Nickel	0.5	32.0	36.5	13%
Selenium	0.1	0.4	0.6	NC
Silver	0.05	<0.05	<0.05	NC
Thallium	0.05	0.10	0.13	NC
Tin	0.05	0.38	0.43	12%
Uranium	0.05	0.75	0.94	22%
Vanadium	1	59	68	14%
Zinc	1	70	84	18%

Notes

All units in ug/g.

"-" indicates that there is no applicable regulation or analyses were not performed.

"NC" indicates RPD not calculated due to the sample or its duplicate value being less than method detection limits.

Area ID	Station ID	Field label	Duplicate ID	Date	Lab report ID	Consultants	Depth (m)	Grain Type	CCME IL (Coarse, Surface)	CCME IL (Fine, Subsoil)	BC CSR IL (STRINGENT)	25, 26, 27, 30			RPD	25, 26, 27, 30			RPD	21		RPD	21										
												BV-11BH-04M	BV-11BH-04M	BV-11BH-04M		BV-11BH-05M	BV-11BH-05M	BV-11BH-05M		BV-11BH-07M	BV-11BH-07M		BV-11BH-07M-3										
												BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5	BV-11BH-05M-5	BV-11BH-07M-2	BV-DUP8	BV-11BH-07M-2			BV-11BH-07M-3										
												17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11	17/Dec/11			17/Dec/11										
												11V560784	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784	11V560784			11V560784										
												0 - 0.5	1.5 - 2	1.5 - 2	0 - 0.5	3 - 4	3 - 4	0.5 - 1	0.5 - 1	0.5 - 1			1.5 - 2										
												coarse	coarse	coarse	coarse	fine	fine	coarse	coarse	coarse			coarse										
Monocyclic Aromatic Hydrocarbons																																	
Benzene	0.03	0.0068	0.04	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	NC	<0.005										
Ethylbenzene	0.082	0.018	7	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	NC	<0.01										
Styrene	50	50	50	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Toluene	0.37	0.08	2.5	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
m+p-Xylene				<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
p-Xylene				<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Xylenes (total)	11	2.4	20	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Metals																																	
Antimony	40	40	40	0.56	0.66	0.29	78%	0.92	0.68	0.44	9%	-	-	-	-	-	-	-	-	-	-	-	-										
Arsenic	12	12	15	4.4	7.0	5.4	26%	5.2	11.7	14.6	22%	-	-	-	-	-	-	-	-	-	-	-	-										
Barium	2000	2000	400	80.5	57.0	54.7	4%	69.5	81.0	76.8	5%	-	-	-	-	-	-	-	-	-	-	-	-										
Beryllium	8	8	8	0.24	0.20	0.18	11%	0.21	0.26	0.27	4%	-	-	-	-	-	-	-	-	-	-	-	-										
Boron				1.2	0.2	0.2	NC	0.3	0.2	0.2	NC	-	-	-	-	-	-	-	-	-	-	-	-										
Cadmium	22	22	2 to 2.5	0.37	0.12	0.12	9%	0.22	0.22	0.24	9%	-	-	-	-	-	-	-	-	-	-	-	-										
Chromium	87	87	60	37	30	28	7%	29	35	34	3%	-	-	-	-	-	-	-	-	-	-	-	-										
Cobalt	300	300	300	8.5	8.2	7.9	4%	8.3	10.6	10.4	2%	-	-	-	-	-	-	-	-	-	-	-	-										
Copper	91	91	250	27.3	16.7	15.2	9%	24.0	27.6	28.1	2%	-	-	-	-	-	-	-	-	-	-	-	-										
Lead	600	600	2000	18.60	3.24	2.89	11%	14.80	5.59	6.34	13%	-	-	-	-	-	-	-	-	-	-	-	-										
Mercury	50	50	150	0.05	0.03	0.02	NC	0.04	0.04	0.04	NC	-	-	-	-	-	-	-	-	-	-	-	-										
Molybdenum	40	40	40	2.24	0.47	0.42	11%	0.75	0.58	0.70	19%	-	-	-	-	-	-	-	-	-	-	-	-										
Nickel	50	50	500	31.1	32.0	31.2	3%	30.1	36.4	36.4	0%	-	-	-	-	-	-	-	-	-	-	-	-										
Selenium	2.9	2.9	10	0.09	0.2	0.3	NC	0.3	0.4	0.4	NC	-	-	-	-	-	-	-	-	-	-	-	-										
Silver	40	40	40	0.07	0.06	<0.05	NC	0.06	0.07	0.08	NC	-	-	-	-	-	-	-	-	-	-	-	-										
Thallium	1	1		0.06	<0.05	<0.05	NC	0.08	0.08	0.08	NC	-	-	-	-	-	-	-	-	-	-	-	-										
Tin	300	300	300	1.30	0.32	0.35	9%	0.86	0.49	0.46	6%	-	-	-	-	-	-	-	-	-	-	-	-										
Uranium	300	300		0.54	0.39	0.33	17%	0.43	0.54	0.55	2%	-	-	-	-	-	-	-	-	-	-	-	-										
Vanadium	130	130		40	41	40	2%	43	46	44	4%	-	-	-	-	-	-	-	-	-	-	-	-										
Zinc	360	360	300 to 600	108	40	41	2%	125	60	59	2%	-	-	-	-	-	-	-	-	-	-	-	-										
Polycyclic Aromatic Hydrocarbons																																	
Acenaphthene	0.28	0.28		<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	NC	<0.01										
Acenaphthylene	320	320		<0.01	<0.01	-	-	<0.01	0.02	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	NC	0.01										
Anthracene	32	32		<0.02	<0.02	-	-	<0.02	0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
Benzo[a]anthracene	10	10	10	0.02	<0.02	-	-	<0.02	0.13	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
Benzo[a]pyrene	72	72	10	<0.05	<0.05	-	-	<0.05	0.15	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Benzo[b]fluoranthene	10	10	10	0.03	<0.02	-	-	<0.02	0.11	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
Benzo[g]hperylene				<0.05	<0.05	-	-	<0.05	0.07	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Benzo[k]fluoranthene	10	10	10	<0.02	<0.02	-	-	<0.02	0.06	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
Chrysene	10	10	10	<0.05	<0.05	-	-	<0.05	0.19	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Dibenz[a,h]anthracene	10	10	10	<0.02	<0.02	-	-	<0.02	0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
Fluoranthene	180	180		0.06	<0.05	-	-	<0.05	0.29	-	-	<0.05	<0.05	-	-	<0.05	<0.05	-	-	<0.05	<0.05	NC	<0.05										
Fluorene	0.25	0.25		<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
Indeno[1,2,3-cd]pyrene	10	10	10	<0.02	<0.02	-	-	<0.02	0.06	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	<0.02										
2-Methylnaphthalene				0.01	<0.01	-	-	<0.01	0.14	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	NC	0.05										
Naphthalene	0.013	0.013	50	0.02	<0.01	-	-	<0.01	0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	-	-	<0.01	<0.01	NC	0.07										
Phenanthrene	0.046	0.046	50	0.04	<0.02	-	-	<0.02	0.05	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	0.05										
Pyrene	100	100	100	0.06	<0.02	-	-	<0.02	0.38	-	-	<0.02	<0.02	-	-	<0.02	<0.02	-	-	<0.02	<0.02	NC	0.04										
Petroleum Hydrocarbons																																	
HEPH			5000	170	<25	-	-	54	78	-	-	110	33	-	-	110	33	-	-	110	33	NC	220										
LEPH			2000	<25	<25	-	-	<25	<25	-	-	30	<25	-	-	30	<25	-	-	30	<25	NC	43										
VPH (VH6-10) minus BTEX			200	<10	<10	-	-	<10	<10	-	-	<10	<10	-	-	<10	<10	-	-	<10	<10	NC	<10										
F1 (C6-C10)				<10	<10	-	-	<10	<10	-	-	<10	<10	-	-	<10	<10	-	-	<10	<10	NC	<10										
F1 (C6-C10) minus BTEX	320	800		<10	<10	-	-	<10	<10	-	-	<10	<10	-	-	<10	<10	-	-	<10	<10	NC	<10										
F2 (C10-C16)	260	1000		<10	<10	-	-	11	<10	-	-	29	13	-	-	29	13	-	-	29	13	NC	17										
F3 (C16-C34)	1700	5000		314	<10	-	-	145	34	-	-	206	136	-	-	206	136	-	-	206	136	41%	150										
F4 (C34-C50)	3300	10000		205	19	-	-	524	63	-	-	92	80	-	-	92	80	-	-	92	80	14%	112										
Phenols																																	
4-Chloro-3-methylphenol				<0.005	<0.005	<0.005	NC	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2-Chlorophenol	5	5	5	<0.002	<0.002	<0.002	NC	<0.002	<0.002	-	-	<0.002	<0.002	-	-	<0.002	<0.002	-	-	<0.002	<0.002	-	-										
p-Cresol				<0.005	<0.005	<0.005	NC	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	-	-										
m+p-Cresol				<0.005	<0.005	<0.005	NC	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	-	-	<0.005	<0.005	-	-										
2,4-Dichlorophenol	5	5	5	<0.002	<0.002	<0.002	NC	<0.002	<0.002	-	-	<0.002	<0.002	-	-	<0.002	<0.002	-	-	<0.002	<0.002	-	-										
2,6-Dichlorophenol	5	5	5	<0.0																													

APPENDIX D

DUPLICATE ANALYSIS (QA/QC) - GROUNDWATER

Station ID		BV-11BH-02M	BV-11BH-02M		MV-11BH-14M	MV-11BH-14M		3-BH10	3-BH10	
Field label	RD	BV-GWDUP1	BV-GWDUP1	RD	MV-GWDUP3	MV-GWDUP3	RD	3-BH10	MV-GWDUP5	RD
Duplicate ID		BV-11BH-02M	BV-11BH-02M		MV-11BH-14M	MV-11BH-14M		MV-GWDUP5	3-BH10	
Date		2/Feb/12	2/Feb/12		7/Feb/12	7/Feb/12		14/Feb/12	14/Feb/12	
Acenaphthene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Acenaphthylene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Acridine	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Anthracene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Benzo[a]anthracene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Benzo[a]pyrene	0.01	<0.01	<0.01	NC	<0.01	<0.01	NC	<0.01	<0.01	NC
Benzo[b]fluoranthene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Benzo[ghi]perylene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Benzo[k]fluoranthene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Chrysene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Dibenzo[a,h]anthracene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Fluoranthene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Fluorene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Indeno[1,2,3-cd]pyrene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Naphthalene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Phenanthrene	0.05	<0.05	<0.05	NC	<0.05	<0.05	NC	<0.05	<0.05	NC
Pyrene	0.02	<0.02	<0.02	NC	0.02	<0.02	NC	<0.02	<0.02	NC
Quinoline	0.1	<0.1	<0.1	NC	<0.1	<0.1	NC	<0.1	<0.1	NC

Notes

All units in ug/L.

* indicates that there is no applicable standard or analyses were not performed.

"NC" indicates RPD not calculated due to the sample or its duplicate value being less than method detection limits.

Station ID	RDL	BV-11BH-02M	BV-11BH-02M	RPD	MV-11BH-15M	MV-11BH-15M	RPD
Field label		BV-11BH-02M	BV-GWDUP1		MV-11BH-15M	MV-GWDUP4	
Duplicate ID		BV-GWDUP1	BV-11BH-02M		MV-GWDUP4	MV-11BH-15M	
Date		2/Feb/12	2/Feb/12		10/Feb/12	10/Feb/12	
4-Chloro-3-methylphenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2-Chlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
o-Cresol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
m+p-Cresol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,4-Dichlorophenol	0.1	<0.1	<0.1	NC	<0.1	<0.1	NC
2,6-Dichlorophenol	0.1	<0.1	<0.1	NC	<0.1	<0.1	NC
2,4-Dimethylphenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,4-Dinitrophenol	5	<5	<5	NC	<5	<5	NC
Dinoseb	5	<5	<5	NC	<5	<5	NC
2-Methyl 4,6-dinitrophenol	5	<5	<5	NC	<5	<5	NC
2-Nitrophenol	5	<5	<5	NC	<5	<5	NC
4-Nitrophenol	5	<5	<5	NC	<5	<5	NC
Pentachlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
Phenol	2	<2	<2	NC	<2	<2	NC
2,3,4,5-Tetrachlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,3,4,6-Tetrachlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,3,5,6-Tetrachlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,3,4-Trichlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,3,5-Trichlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,3,6-Trichlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,4,5-Trichlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
2,4,6-Trichlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC
3,4,5-Trichlorophenol	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC

Notes

All units in ug/L, unless otherwise noted.

"-" indicates that there is no applicable standard or analyses were not performed.

"NC" indicates RPD not calculated due to the sample or its duplicate value being less than method detection limits.

Area ID	BC CSR AW	FCSAP CLIL Fresh/Marine	RDL			RPD
Station ID				MV-11BH-03M	MV-11BH-03M	
Field label				MV-11BH-03M	MV-GWDUP2	
Duplicate ID				MV-GWDUP2	MV-11BH-03M	
Date				6/Feb/12	6/Feb/12	
Lab report ID				12V572231	12V572231	
Consultants						
Chloride ion	1500000	230000	0.05	8860	8960	1%

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

Red cells indicates parameter exceeds BC CSR AW. (Current as of 1-March-2012)

Bold indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current up to 1-November-

Station ID	RPD	BV-11BH-02M	BV-11BH-02M	RPD	MV-11BH-14M	MV-11BH-14M	RPD	3-BH10	3-BH10	RPD
Field label		BV-11BH-02M	BV-GWDUP1		MV-11BH-14M	MV-GWDUP3		3-BH10	MV-GWDUP5	
Duplicate ID		BV-GWDUP1	BV-11BH-02M		MV-GWDUP3	MV-11BH-14M		MV-GWDUP5	3-BH10	
Date		2/Feb/12	2/Feb/12		7/Feb/12	7/Feb/12		14/Feb/12	14/Feb/12	
EPH (C10-C19)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
LEPH	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
VH (C6-C10)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
VPH (VH6-10) minus BTEX	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F1 (C6-C10)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F1 (C6-C10) minus BTEX	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F2 (C10-C16)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F3 (C16-C34)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F4 (C34-C50)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC

Notes

All units in ug/L.

"-" indicates that there is no applicable standard or analyses were not performed.

"NC" indicates RPD not calculated due to the sample or its duplicate value being less than method detection limits.

Station ID	RPD	BV-11BH-02M	BV-11BH-02M	RPD	MV-11BH-14M	MV-11BH-14M	RPD	3-BH10	3-BH10	RPD
Field label		BV-11BH-02M	BV-GWDUP1		MV-11BH-14M	MV-GWDUP3		3-BH10	MV-GWDUP5	
Duplicate ID		BV-GWDUP1	BV-11BH-02M		MV-GWDUP3	MV-11BH-14M		MV-GWDUP5	3-BH10	
Date		2/Feb/12	2/Feb/12		7/Feb/12	7/Feb/12		14/Feb/12	14/Feb/12	
EPH (C10-C19)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
LEPH	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
VH (C6-C10)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
VPH (VH6-10) minus BTEX	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F1 (C6-C10)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F1 (C6-C10) minus BTEX	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F2 (C10-C16)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F3 (C16-C34)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC
F4 (C34-C50)	100	<100	<100	NC	<100	<100	NC	<100	<100	NC

Notes

All units in ug/L.

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Station ID	RDL	BV-11BH-02M	BV-11BH-02M	RPD	MV-11BH-03M	MV-11BH-03M	RPD	MV-11BH-14M	MV-11BH-14M	RPD	3-BH10	3-BH10	RPD		
Field label		BV-11BH-02M	BV-GWDUP1		MV-11BH-03M	MV-GWDUP2		MV-11BH-03M	MV-GWDUP3		MV-11BH-14M	MV-GWDUP5		3-BH10	MV-GWDUP5
Duplicate ID		2/Feb/12	2/Feb/12		6/Feb/12	6/Feb/12		7/Feb/12	7/Feb/12		14/Feb/12	14/Feb/12			
Bromodichloromethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Bromoform	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Bromomethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Carbon tetrachloride	0.5	-	-	-	<0.5	<0.5	NC	-	-	-	-	-	-		
Chlorobenzene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Chlorobromomethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Chloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Chloroform	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Chloromethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,2-Dichlorobenzene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,3-Dichlorobenzene	0.5	-	-	-	<0.5	<0.5	NC	-	-	-	-	-	-		
1,4-Dichlorobenzene	0.5	-	-	-	<0.5	<0.5	NC	-	-	-	-	-	-		
1,1-Dichloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,2-Dichloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,1-Dichloroethene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
cis-1,2-Dichloroethene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
trans-1,2-Dichloroethene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Dichloromethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,2-Dichloropropane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
cis-1,3-Dichloropropene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
trans-1,3-Dichloropropene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Ethylene dibromide	0.3	-	-	-	<0.3	<0.3	NC	-	-	-	-	-	-		
Methyl ethyl ketone	10	-	-	-	<10	<10	NC	-	-	-	-	-	-		
Methyl isobutyl ketone	10	-	-	-	<10	<10	NC	-	-	-	-	-	-		
Methyl tert-butyl ether	1	<1	<1	NC	<1	<1	NC	<1	<1	NC	<1	<1	NC		
1,1,1,2-Tetrachloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,1,1,2-Tetrachloroethene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Tetrachloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,2,4-Trichlorobenzene	1	-	-	-	<1	-	-	<1	-	-	-	-	-		
1,1,1-Trichloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
1,1,2-Trichloroethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Trichloroethene	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Trichlorofluoromethane	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		
Vinyl chloride	1	-	-	-	<1	<1	NC	-	-	-	-	-	-		

Notes

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Station ID	RDL	BV-11BH-02M		RPD	MV-11BH-03M		RPD	MV-11BH-14M		RPD
Field label		BV-11BH-02M	BV-11BH-02M		MV-11BH-03M	MV-11BH-03M		MV-11BH-14M	MV-11BH-14M	
Duplicate ID		BV-GWDUP1	BV-11BH-02M		MV-GWDUP2	MV-11BH-03M		MV-GWDUP3	MV-11BH-14M	
Date		2/Febr/12	2/Febr/12		6/Febr/12	6/Febr/12		7/Febr/12	7/Febr/12	
Benzene	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC	<0.5	<0.5	NC
Ethylbenzene	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC	<0.5	<0.5	NC
Styrene	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC	<0.5	<0.5	NC
Toluene	0.5	<0.5	<0.5	NC	<0.5	<0.5	NC	<0.5	<0.5	NC
Xylenes (total)	0.5	<0.5	<0.5	NC	<0.5	-	-	<0.5	<0.5	NC

Station ID	RDL	3-BH10		RPD
Field label		3-BH10	MV-GWDUP5	
Duplicate ID		MV-GWDUP5	3-BH10	
Date		14/Febr/12	14/Febr/12	
Benzene	0.5	<0.5	<0.5	NC
Ethylbenzene	0.5	<0.5	<0.5	NC
Styrene	0.5	<0.5	<0.5	NC
Toluene	0.5	<0.5	<0.5	NC
Xylenes (total)	0.5	<0.5	<0.5	NC

Notes

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Station ID	RDL	BV-11BH-02M	BV-11BH-02M	RPD	MV-11BH-03M	MV-11BH-03M	RPD
Field label		BV-11BH-02M	BV-GWDUP1		MV-11BH-03M	MV-GWDUP2	
Duplicate ID		BV-GWDUP1	BV-11BH-02M		MV-GWDUP2	MV-11BH-03M	
Date		2/Feb/12	2/Feb/12		6/Feb/12	6/Feb/12	
Hardness (CaCO3) (mg/L)		-	-		-	-	
Dissolved Aluminum	1	4	2	NC	66	-	-
Dissolved Antimony	0.05	0.06	<0.05	NC	0.09	-	-
Dissolved Arsenic	0.1	26.0	25.9	0.39%	4.4	-	-
Dissolved Barium	0.1	58.1	58.4	0.52%	108.0	-	-
Dissolved Beryllium	0.01	<0.01	<0.01	NC	0.01	-	-
Dissolved Boron	1	128	129	0.78%	52	-	-
Dissolved Cadmium	0.01	0.01	<0.01	NC	0.02	-	-
Dissolved Calcium	0.05	45600	46000	0.87%	77800	-	-
Dissolved Chromium	0.5	1.2	1.2	NC	25.0	-	-
Dissolved Cobalt	0.05	0.15	0.14	NC	2.59	-	-
Dissolved Copper	0.2	0.4	0.2	NC	0.4	-	-
Dissolved Iron	0.01	37200	37800	1.60%	34600	-	-
Dissolved Lead	0.01	0.03	<0.01	NC	0.22	-	-
Dissolved Lithium	0.1	2.1	2.0	4.88%	0.6	-	-
Dissolved Magnesium	0.05	9370	9470	1.06%	11400	-	-
Dissolved Manganese	0.001	1630	1640	0.61%	1800	-	-
Dissolved Mercury	0.003	<0.003	<0.003	NC	0.003	-	-
Dissolved Molybdenum	0.05	0.57	0.32	56.18%	0.35	-	-
Dissolved Nickel	0.1	0.7	0.2	NC	4.3	-	-
Dissolved Selenium	0.1	0.1	<0.1	NC	0.2	-	-
Dissolved Silver	0.01	<0.01	<0.01	NC	<0.01	-	-
Dissolved Sodium	0.05	9310	9420	1.17%	7980	8500	6%
Dissolved Thallium	0.002	<0.002	<0.002	NC	0.017	-	-
Dissolved Titanium	0.1	58.3	58.3	0.00%	102.0	-	-
Dissolved Uranium	0.01	0.01	<0.01	NC	0.20	-	-
Dissolved Vanadium	0.1	0.8	0.9	11.76%	2.8	-	-
Dissolved Zinc	1	7	2	NC	15	-	-

Notes

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DQO Table for Groundwater Samples Collected February 2nd 2012

Area ID	FCSAP CLIL Fresh/Marine	Canadian DW Quality	BC CSR (DW/AW)	25, 26, 27, 30	25, 26, 27, 30	RPD	21	25, 30,34	25, 30,34	25, 30,34
Station ID				BV-11BH-02M	BV-11BH-02M		BV-11BH-07M	MW06-2	MW07-6	MW08-10
Field label				BV-11BH-02M	BV-GWDUP1		BV-11BH-07M	MW06-2	MW07-6	MW08-10
Duplicate ID										
Date				2/Feb/12	2/Feb/12		2/Feb/12	2/Feb/12	2/Feb/12	2/Feb/12
Lab report ID				12V571329	12V571329		12V571329	12V571329	12V571329	12V571329
Consultants							Franz	Hemmera	Hemmera	Hemmera
Screen depth (m)				3.05 - 4.57	3.05 - 4.57		0.91 - 2.44		0.6 - 3	0.8 - 3.8
Monocyclic Aromatic Hydrocarbons										
Benzene	200	5	5	<0.5	<0.5	NC	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	11000	2.4	2.4	<0.5	<0.5	NC	<0.5	<0.5	<0.5	<0.5
Styrene	72		720	<0.5	<0.5	NC	<0.5	<0.5	<0.5	<0.5
Toluene	83	24	24	<0.5	<0.5	NC	<0.5	<0.5	<0.5	<0.5
m+p-Xylene				-	-	-	-	-	-	<0.5
o-Xylene				-	-	-	-	-	-	<0.5
Xylenes (total)	18000	300	300	<0.5	<0.5	NC	<0.5	<0.5	<0.5	-
Metals										
Dissolved Aluminum		100	9500	4	2	NC	-	-	-	-
Dissolved Antimony	1600	6	6	0.06	<0.05	NC	-	-	-	-
Dissolved Arsenic	5	10	10	26.0	25.9	0.39%	-	-	-	-
Dissolved Barium	500	1000	1000	58.1	58.4	0.52%	-	-	-	-
Dissolved Beryllium	5.3		53	<0.01	<0.01	NC	-	-	-	-
Dissolved Boron	5000	5000	5000	128	129	0.78%	-	-	-	-
Dissolved Cadmium	0.017	5	0.6	0.01	<0.01	NC	-	-	-	-
Dissolved Calcium				45600	46000	0.87%	-	-	-	-
Dissolved Chromium	8.9	50	10	1.2	1.2	NC	-	-	-	-
Dissolved Cobalt			40	0.15	0.14	NC	-	-	-	-
Dissolved Copper	2	1000	20	0.4	0.2	NC	-	-	-	-
Dissolved Iron	300	300	6500	37200	37800	1.60%	-	-	-	-
Dissolved Lead	2	10	10	0.03	<0.01	NC	-	-	-	-
Dissolved Lithium			730	2.1	2.0	4.88%	-	-	-	-
Dissolved Magnesium			100000	9370	9470	1.06%	-	-	-	-
Dissolved Manganese		50	550	1630	1640	0.61%	-	-	-	-
Dissolved Mercury	0.016	1	1	<0.003	<0.003	NC	-	-	-	-
Dissolved Molybdenum	73		250	0.57	0.32	56.18%	-	-	-	-
Dissolved Nickel	83		83	0.7	0.2	NC	-	-	-	-
Dissolved Selenium	1	10	10	0.1	<0.1	NC	-	-	-	-
Dissolved Silver	0.1		15	<0.01	<0.01	NC	-	-	-	-
Dissolved Sodium		200000	200000	9310	9420	1.17%	-	-	-	-
Dissolved Thallium	0.8		3	<0.002	<0.002	NC	-	-	-	-
Dissolved Titanium	100		1000	58.3	58.3	0.00%	-	-	-	-
Dissolved Uranium	300	20	20	0.01	<0.01	NC	-	-	-	-
Dissolved Vanadium				0.8	0.9	11.76%	-	-	-	-
Dissolved Zinc	10	5000	100	7	2	NC	-	-	-	-
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	5.8		60	<0.05	<0.05	NC	0.14	0.05	<0.05	-
Acenaphthylene	46			<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Acridine	0.05		0.5	<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Anthracene	0.012		1	<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Benzo[a]anthracene	0.018		1	<0.05	<0.05	NC	<0.05	0.05	<0.05	-
Benzo[a]pyrene	0.015	0.01	0.01	<0.01	<0.01	NC	<0.01	0.04	<0.01	-
Benzo[b]fluoranthene				<0.05	<0.05	NC	<0.05	0.05	<0.05	-
Benzo[ghi]perylene	0.17			<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Benzo[k]fluoranthene	0.48			<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Chrysene	1.4		1	<0.05	<0.05	NC	<0.05	0.06	<0.05	-
Dibenzo[a,h]anthracene	0.26			<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Fluoranthene	0.04		2	<0.05	<0.05	NC	<0.05	0.27	<0.05	-
Fluorene	3		120	<0.05	<0.05	NC	0.18	<0.05	<0.05	-
Indeno[1,2,3-cd]pyrene	0.21			<0.05	<0.05	NC	<0.05	<0.05	<0.05	-
Naphthalene	1.1		10	<0.05	<0.05	NC	0.05	0.07	0.07	-
Phenanthrene	0.4		3	<0.05	<0.05	NC	0.11	<0.05	<0.05	-
Pyrene	0.025		0.2	<0.02	<0.02	NC	<0.02	0.29	<0.02	-
Quinoline	3.4		34	<0.1	<0.1	NC	<0.1	<0.1	<0.1	-
Petroleum Hydrocarbons										
EPH (C10-C19)			5000	<100	<100	NC	550	1640	360	-
EPH (C19-C32)				<100	<100	NC	390	140	<100	-
HEPH				<100	<100	NC	390	140	<100	-
LEPH			500	<100	<100	NC	550	1640	360	-
VH C6-C10			15000	<100	<100	NC	200	790	730	<100
VPH (VH6-10) minus BTEX			1500	<100	<100	NC	200	790	730	<100
F1 (C6-C10)				<100	<100	NC	200	300	200	-
F1 (C6-C10) minus BTEX	9100			<100	<100	NC	200	300	200	-
F2 (C10-C16)	1300			<100	<100	NC	300	800	400	-
F3 (C16-C34)				<100	<100	NC	100	<100	<100	-
F4 (C34-C50)				<100	<100	NC	<100	<100	<100	-
Phenols										
4-Chloro-3-methylphenol				<0.5	<0.5	NC	-	-	-	-
2-Chlorophenol	4400		58.5	<0.5	<0.5	NC	-	-	-	-
o-Cresol				<0.5	<0.5	NC	-	-	-	-
m+p-Cresol				<0.5	<0.5	NC	-	-	-	-
2,4-Dichlorophenol	0.2	0.3	9	<0.1	<0.1	NC	-	-	-	-
2,6-Dichlorophenol			30	<0.1	<0.1	NC	-	-	-	-
2,4-Dimethylphenol	2100		730	<0.5	<0.5	NC	-	-	-	-
2,4-Dinitrophenol	150			<5	<5	NC	-	-	-	-
Dinoseb	0.05	10	0.5	<5	<5	NC	-	-	-	-
2-Methyl 4,6-dinitrophenol			3.7	<5	<5	NC	-	-	-	-
2-Nitrophenol				<5	<5	NC	-	-	-	-
4-Nitrophenol				<5	<5	NC	-	-	-	-
Pentachlorophenol	0.5	30	1	<0.5	<0.5	NC	-	-	-	-
Phenol	4		11000	<2	<2	NC	-	-	-	-
2,3,4,5-Tetrachlorophenol			6	<0.5	<0.5	NC	-	-	-	-
2,3,4,6-Tetrachlorophenol	1	1	10	<0.5	<0.5	NC	-	-	-	-
2,3,5,6-Tetrachlorophenol			7.5	<0.5	<0.5	NC	-	-	-	-
2,3,4-Trichlorophenol			7.5	<0.5	<0.5	NC	-	-	-	-
2,3,5-Trichlorophenol			7.5	<0.5	<0.5	NC	-	-	-	-
2,3,6-Trichlorophenol			24	<0.5	<0.5	NC	-	-	-	-
2,4,5-Trichlorophenol	63		7.5	<0.5	<0.5	NC	-	-	-	-
2,4,6-Trichlorophenol	18	2	18	<0.5	<0.5	NC	-	-	-	-
3,4,5-Trichlorophenol			3	<0.5	<0.5	NC	-	-	-	-
Volatile Organic Compound										
Methyl tert-butyl ether	4300	15	15	<1	<1	NC	<1	<1	<1	<1

Notes
 All units in ug/L, unless otherwise noted.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds FCSAP CLIL Fresh/Marine. (Current as of 19-November-2012)
Bold indicates parameter exceeds Canadian DW Quality. (Current as of 19-November-2012)
Underline indicates parameter exceeds BC CSR (DW/AW). (Current as of 19-November-2012)

APPENDIX E

LABORATORY REPORTS - SOIL

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559211

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 19, 2011

PAGES (INCLUDING COVER): 8

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 12, 2011

DATE RECEIVED: Dec 12, 2011

DATE REPORTED: Dec 19, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-10M-1	MV-11BH-10M-3	MV-11BH-08-2	MV-11BH-08-3	MV-Dup1	MV-11BH-06-1	MV-11BH-06-3	MV-11BH-05-2
				3008313	3008316	3008321	3008322	3008326	3008327	3008329	3008335
Antimony	µg/g	40	0.05	0.27	0.50	0.42	0.52	0.51	0.30	0.38	0.18
Arsenic	µg/g	15	0.1	3.0	2.5	4.5	4.2	5.1	2.2	3.2	2.4
Barium	µg/g	400	0.5	51.8	135	98.5	136	119	54.4	166	42.1
Beryllium	µg/g	8	0.02	0.18	0.39	0.38	0.47	0.52	0.14	0.51	0.16
Boron (Hot Water Soluble)	µg/g		0.1	0.4	0.3	0.2	0.2	0.2	1.8	0.5	0.1
Cadmium	µg/g		0.01	0.11	0.21	0.09	0.25	0.09	0.09	0.20	0.10
Chromium	µg/g	60	1	21	55	39	53	50	27	33	26
Cobalt	µg/g	300	0.1	7.1	9.3	11.6	9.6	13.5	5.9	3.9	6.1
Copper	µg/g		0.2	14.2	22.2	18.4	31.4	20.8	15.0	18.2	11.7
Lead	µg/g		0.05	3.13	9.00	6.54	7.86	8.13	5.29	13.1	2.14
Mercury	µg/g		0.01	0.03	0.05	0.04	0.06	0.04	0.03	0.08	0.02
Molybdenum	µg/g	40	0.05	0.32	0.54	0.51	0.85	0.85	1.19	0.68	0.52
Nickel	µg/g	500	0.5	26.8	34.6	32.0	38.1	36.5	24.0	18.8	24.2
Selenium	µg/g	10	0.1	0.2	0.5	0.4	0.5	0.6	0.2	0.6	0.2
Silver	µg/g	40	0.05	<0.05	0.07	<0.05	0.10	<0.05	<0.05	0.12	<0.05
Thallium	µg/g		0.05	<0.05	0.14	0.10	0.12	0.13	<0.05	0.16	<0.05
Tin	µg/g	300	0.05	0.22	0.55	0.38	0.43	0.43	0.45	1.22	0.15
Uranium	µg/g	200	0.05	0.28	0.95	0.75	1.12	0.94	0.28	1.06	0.25
Vanadium	µg/g		1	41	58	59	62	68	37	39	37
Zinc	µg/g		1	52	75	70	80	84	44	40	36
pH 1:2	pH units		0.1	7.7	7.1	6.2	5.9	5.9	6.1	5.4	6.3

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008313-3008335 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

LEPH/HEPH Soil (180-423)

DATE SAMPLED: Dec 12, 2011

DATE RECEIVED: Dec 12, 2011

DATE REPORTED: Dec 19, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-10M-1	MV-11BH-10M-2
				3008313	3008315
Naphthalene	µg/g	50	0.01	0.50	<0.01
2-Methylnaphthalene	µg/g		0.01	0.65	<0.01
1-Methylnaphthalene	µg/g		0.01	0.28	<0.01
Acenaphthylene	µg/g		0.01	0.02	<0.01
Acenaphthene	µg/g		0.01	<0.01	<0.01
Fluorene	µg/g		0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	<0.02	<0.02
Anthracene	µg/g		0.02	<0.02	<0.02
Fluoranthene	µg/g		0.05	<0.05	<0.05
Pyrene	µg/g	100	0.02	0.02	<0.02
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02
Chrysene	µg/g		0.05	0.06	<0.05
Benzo(b)fluoranthene	µg/g	10	0.02	0.02	<0.02
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<25	<25
HEPH C19-C32	µg/g	5000	25	196	<25
Surrogate	Unit	Acceptable Limits			
Nitrobenzene - d5	%	50-130		83	96
2-Fluorobiphenyl	%	50-130		91	104
P-Terphenyl - d14	%	60-130		87	95

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008313-3008315 Results are based on dry weight of sample.

LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 12, 2011

DATE RECEIVED: Dec 12, 2011

DATE REPORTED: Dec 19, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-10M-1 MV-11BH-10M-2	
				3008313	3008315
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	2500	10	522	<10
C34 - C50 (F4)	mg/kg	6600	10	822	<10
Moisture Content	%		1	15.5	20
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		93	87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,F)

3008313-3008315 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559211
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 19, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony	20111	3008313	0.27	0.31	13.8%	< 0.05	100%	70%	130%	92%	90%	110%	108%	80%	120%	
Arsenic	20111	3008313	3.1	3.0	3.3%	< 0.1	106%	70%	130%	99%	90%	110%	95%	80%	120%	
Barium	20111	3008313	51.8	48.6	6.0%	< 0.5	91%	70%	130%	109%	90%	110%	94%	80%	120%	
Beryllium	20111	3008313	0.18	0.17	6.0%	< 0.02	101%	70%	130%	104%	90%	110%	102%	80%	120%	
Boron (Hot Water Soluble)	20111	3008313	<0.1	<0.1	0.0%	< 0.1				99%	90%	110%	96%	80%	120%	
Cadmium	20111	3008313	0.11	0.10	10.0%	< 0.01				103%	90%	110%	97%	80%	120%	
Chromium	20111	3008313	21	18	15.0%	< 1	106%	70%	130%	101%	90%	110%	95%	80%	120%	
Cobalt	20111	3008313	7.1	6.5	9.0%	< 0.1	98%	70%	130%	102%	90%	110%	94%	80%	120%	
Copper	20111	3008313	14.2	13.4	6.0%	< 0.2	94%	70%	130%	102%	90%	110%	94%	80%	120%	
Lead	20111	3008313	3.13	3.45	10.0%	< 0.05	91%	70%	130%	102%	90%	110%	97%	80%	120%	
Mercury	20111	3008313	0.03	0.02	40.0%	< 0.01	99%	70%	130%	107%	90%	110%	107%	80%	120%	
Molybdenum	20111	3008313	0.32	0.41	25.0%	< 0.05	92%	70%	130%	106%	90%	110%	101%	80%	120%	
Nickel	20111	3008313	26.8	24.5	9.0%	< 0.5	99%	70%	130%	103%	90%	110%	96%	80%	120%	
Selenium	20111	3008313	0.2	0.1	67.0%	< 0.1				104%	90%	110%	113%	80%	120%	
Silver	20111	3008313	<0.05	<0.05	0.0%	< 0.05				102%	90%	110%	96%	80%	120%	
Thallium	20111	3008313	<0.05	<0.05	0.0%	< 0.05				106%	90%	110%	97%	80%	120%	
Tin	20111	3008313	0.22	0.23	4.0%	< 0.05				97%	90%	110%	97%	80%	120%	
Uranium	20111	3008313	0.27	0.28	3.6%	< 0.05		0%	0%	99%	90%	110%	105%	80%	120%	
Vanadium	20111	3008313	41	38	8.0%	< 1	109%	70%	130%	102%	90%	110%	97%	80%	120%	
Zinc	20111	3008313	52	41	24.0%	< 1	109%	70%	130%	98%	90%	110%	116%	80%	120%	
pH 1:2	1	3008313	7.7	7.8	1.3%	< 0.1				100%	95%	105%	95%	90%	110%	

Certified By: 

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559211
 ATTENTION TO: Amanda Salway

Trace Organics Analysis

RPT Date: Dec 19, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
LEPH/HEPH Soil (180-423)																
Naphthalene	1	3008313	0.5	0.36	32.6%	< 0.01	102%	80%	120%				113%	50%	130%	
2-Methylnaphthalene	1	3008313	0.65	0.45	36.0%	< 0.01	102%	80%	120%				113%	50%	130%	
1-Methylnaphthalene	1	3008313	0.28	0.19	38.0%	< 0.01	103%	80%	120%				115%	50%	130%	
Acenaphthylene	1	3008313	NA	NA	0.0%	< 0.01	102%	80%	120%				106%	50%	130%	
Acenaphthene	1	3008313	<0.01	<0.01	0.0%	< 0.01	104%	80%	120%				103%	50%	130%	
Fluorene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				109%	50%	130%	
Phenanthrene	1	3008313	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				102%	60%	130%	
Anthracene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				91%	60%	130%	
Fluoranthene	1	3008313	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				109%	60%	130%	
Pyrene	1	3008313	0.02	<0.02	0.0%	< 0.02	101%	80%	120%				108%	60%	130%	
Benzo(a)anthracene	1	3008313	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%				104%	60%	130%	
Chrysene	1	3008313	0.06	<0.05	0.0%	< 0.05	101%	80%	120%				110%	60%	130%	
Benzo(b)fluoranthene	1	3008313	0.02	<0.02	0.0%	< 0.02	100%	80%	120%				88%	60%	130%	
Benzo(k)fluoranthene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				107%	60%	130%	
Benzo(a)pyrene	1	3008313	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				101%	60%	130%	
Indeno(1,2,3-c,d)pyrene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				100%	60%	130%	
Dibenzo(a,h)anthracene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	130%				93%	60%	130%	
Benzo(g,h,i)perylene	1	3008313	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				105%	60%	130%	
Nitrobenzene - d5	1	3008313	83	128	43.0%	<	98%	80%	120%				88%	50%	130%	
2-Fluorobiphenyl	1	3008313	91	113	22.0%	<	101%	80%	120%				100%	50%	130%	
P-Terphenyl - d14	1	3008313	87	108	22.0%	<	100%	80%	120%				92%	60%	130%	
Petroleum Hydrocarbons (F2-F4) in Soil																
C10 - C16 (F2)	873	2986212	<10	<10	NA	< 10	106%	80%	120%	102%	80%	120%	102%	60%	140%	
C16 - C34 (F3)	873	2986212	24	29	NA	< 10	106%	80%	120%	96%	80%	120%	103%	60%	140%	
C34 - C50 (F4)	873	2986212	14	16	NA	< 10	106%	80%	120%	98%	80%	120%	104%	60%	140%	

Certified By: _____



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID



AGAT

Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph: 778.452.4000 - Fax: 778.452.7074

Report To:

Company: FRANZ ENVIRONMENTAL
Contact: AMANDA SALWAY
Address: 308-1080 MOUNTAIN ST
VANCOUVER, BC V6B 2T4
Phone: 604 682-9941 Fax: 604 682-9941
LSD:
Client Project #: 2090-1103

Report Information

1. Name: AMANDA SALWAY
Email: ASALWAY@FRANZBC.COM
2. Name: VIVIANE DUBOIS-CÔTE
Email: VDUBOIS@FRANZBC.COM

Regulatory Requirements (Check):

- BC CSR - Soil** **BC CSR - Water**
- Agricultural Drinking Water
 - Industrial Aquatic Life
 - Urban/Park Irrigation
 - Commercial Livestock
- CCME**
- Drinking Water Industrial
 - Residential/Park Drinking Water
 - Commercial FWAL

Invoice To: Same as above Yes No

Company: _____
Contact: _____
Address: _____
Phone: _____
PO/AFE #: _____

Report Format

- Single Sample per page
 Multiple Samples per page
 Excel Format Included

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
Rush TAT 24 to 48 hours
Rush TAT 48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: 10°C / 50°C
AGAT Job Number: _____

Notes: _____

DEC 12 PM 5:52

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	BC CSR Schedule II	Routine Potability	CCME F2-F4	CCME OVER CCME METALS	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1-YEAR
308313	MV-11BK-10M-1	SOIL	12/12/2011							X	X				X
315	MV-11BK-10M-2									X	X				X
316	MV-11BK-10M-3									X	X				X
317	MV-11BK-10M-4									X	X				X
318	MV-11BK-10M-5									X	X				X
319	MV-11BK-08-1									X	X				X
321	MV-11BK-08-2									X	X				X
322	MV-11BK-08-3									X	X				X
324	MV-11BK-08-4									X	X				X
325	MV-11BK-08-5									X	X				X
326	MV-DUP1									X	X				X
327	MV-11BK-06-1									X	X				X

Samples Relinquished by (print name & sign): AMANDA SALWAY Date: 12/12/2011

Samples Relinquished by (print name & sign): AMANDA SALWAY Date: 12/12/2011

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Relinquished by (print name & sign): _____ Date: _____

Date: Dec 12/11 17:52 Page 1 of 2

Yellow Copy - AGAT
White Copy - AGAT

NO: **000286**

AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Report To:
Company: SAME AS PREVIOUS
Contact: _____
Address: _____
Phone: _____ Fax: _____
LSD: _____
Client Project #: 2010-1103

Report Information
1. Name: SAME AS PREVIOUS
Email: _____
2. Name: _____
Email: _____

Regulatory Requirements (Check):

BC CSR - Soil **BC CSR - Water**

Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock

CCME

Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Invoice To: Same as above Yes No

Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/A/E #: _____

Turnaround Time Required (TAT)
Regular TAT 5 to 7 working days
Rush TAT 24 to 48 hours
48 to 72 hours

Date Required: _____
Please contact laboratory if Rush is required

Laboratory Use Only
Arrival Temperature: 10°C / 5°C
AGAT Job Number: 11V559211

Notes: DEC 12 PM 5:52

BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	VOCs	BC CSR Schedule II	Routine Potability	CSR and CCME METALS	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1-YEAR - 60 days
						X				X
										X
										X
										X
										X
										X
										X
										X
										X
										X
										X

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Date: Dec 14/11 17:52
 Date: _____
 Date: _____

Page 2 of 2
 NO: 000287

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment
3008328	MV-11BK-06-2	SOIL	12/12/2011	
3329	MV-11BK-06-3			
331	MV-11BK-06-4			
332	MV-11BK-06-5			
333	MV-11BK-06-6			
334	MV-11BK-05-1			
335	MV-11BK-05-2			
336	MV-11BK-05-3			
338	MV-11BK-05-4			
339	MV-11BK-05-5			

Samples Relinquished by (print name & sign): ARAGONA Date: 12/12/2011
 Samples Relinquished by (print name & sign): SALON Date: _____
 Samples Relinquished by (print name & sign): _____ Date: _____

Samples Received by (Print name & sign): Arnold Bond Date: _____
 Samples Received by (Print name & sign): _____ Date: _____
 Samples Received by (Print name & sign): _____ Date: _____



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # _____

RECEIVING BASICS:

*Complete CoC as well where required

Date and Time: December 12/11 17:52

Courier: n/a

Received by: AB

Relinquished by: Amanda S.

Branch Received From: n/a

Company: Franz Environmental

Consultant: n/a

Client left without count verified: no

CoC INFORMATION:

Received Yes No Emailed to PM

Completed in full: Yes No If NO, why: _____

TURNAROUND TIME: 2ag

CoC Numbers: 000286, 287

SAMPLE QUANTITIES:

Coolers: _____ Bottles/Jars: 32 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 12-DEC-11

Microbiology: Test: _____

Hydrocarbons: Test: LEPH/HEPH

Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No

Expiry: _____

Expiry: 19-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A

International Samples: Yes No

**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____

Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.

Correct bottles used for testing: Yes No

If No, explain: _____

Correct amount of sample for analysis: Yes No

If No, explain: _____

Are all samples labeled correctly Yes No

If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 9 + 10 + 10 = 10°C (2) 4 + 6 + 6 = 5°C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

1) _____

2) _____

3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No

Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM Work order # 11V559211

RECEIVING BASICS:
 *Complete CoC as well where required
 Date and Time: DEC. 15, 2011 / 8:16
 Courier: DHL
 Received by: JAN
 Relinquished by: _____
 Company: FRANZ ENVIRONMENTAL
 Consultant: _____
 Client left without count verified: _____

COC INFORMATION:
 Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: REGULAR
 COC Numbers: 000206 WO# 11V559211

SAMPLE QUANTITIES:
 Coolers: 1 Bottles/Jars: 2 Bags: 0

TIME SENSITIVE ISSUES:
 Earliest Date Sampled: DEC. 12, 2011
 Microbiology: Test: _____
 Hydrocarbons: Test: _____
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: _____

SPECIALTY ISSUES:
 Legal Samples: Yes No
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:
 *Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:
 3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)
 (1) 3 + 3 + = 3 °C (2) _____ + _____ + _____ = _____ °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available
JAN W/ICE
 Additional integrity issues (note here and on CoC next to the sample ID):
 1) _____
 2) _____
 3) _____
 Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559211

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 19, 2011

PAGES (INCLUDING COVER): 8

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 12, 2011

DATE RECEIVED: Dec 12, 2011

DATE REPORTED: Dec 19, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-10M-1	MV-11BH-10M-3	MV-11BH-08-2	MV-11BH-08-3	MV-Dup1	MV-11BH-06-1	MV-11BH-06-3	MV-11BH-05-2
				3008313	3008316	3008321	3008322	3008326	3008327	3008329	3008335
Antimony	µg/g	40	0.05	0.27	0.50	0.42	0.52	0.51	0.30	0.38	0.18
Arsenic	µg/g	12	0.1	3.0	2.5	4.5	4.2	5.1	2.2	3.2	2.4
Barium	µg/g	2000	0.5	51.8	135	98.5	136	119	54.4	166	42.1
Beryllium	µg/g	8	0.02	0.18	0.39	0.38	0.47	0.52	0.14	0.51	0.16
Boron (Hot Water Soluble)	µg/g	1.4	0.1	0.4	0.3	0.2	0.2	0.2	1.8	0.5	0.1
Cadmium	µg/g	22	0.01	0.11	0.21	0.09	0.25	0.09	0.09	0.20	0.10
Chromium	µg/g	87	1	21	55	39	53	50	27	33	26
Cobalt	µg/g	300	0.1	7.1	9.3	11.6	9.6	13.5	5.9	3.9	6.1
Copper	µg/g	91	0.2	14.2	22.2	18.4	31.4	20.8	15.0	18.2	11.7
Lead	µg/g	600	0.05	3.13	9.00	6.54	7.86	8.13	5.29	13.1	2.14
Mercury	µg/g	50	0.01	0.03	0.05	0.04	0.06	0.04	0.03	0.08	0.02
Molybdenum	µg/g	40	0.05	0.32	0.54	0.51	0.85	0.85	1.19	0.68	0.52
Nickel	µg/g	50	0.5	26.8	34.6	32.0	38.1	36.5	24.0	18.8	24.2
Selenium	µg/g	2.9	0.1	0.2	0.5	0.4	0.5	0.6	0.2	0.6	0.2
Silver	µg/g	40	0.05	<0.05	0.07	<0.05	0.10	<0.05	<0.05	0.12	<0.05
Thallium	µg/g	1	0.05	<0.05	0.14	0.10	0.12	0.13	<0.05	0.16	<0.05
Tin	µg/g	300	0.05	0.22	0.55	0.38	0.43	0.43	0.45	1.22	0.15
Uranium	µg/g	300	0.05	0.28	0.95	0.75	1.12	0.94	0.28	1.06	0.25
Vanadium	µg/g	130	1	41	58	59	62	68	37	39	37
Zinc	µg/g	360	1	52	75	70	80	84	44	40	36
pH 1:2	pH units		0.1	7.7	7.1	6.2	5.9	5.9	6.1	5.4	6.3

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)
 3008313-3008335 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

LEPH/HEPH Soil (180-423)

DATE SAMPLED: Dec 12, 2011

DATE RECEIVED: Dec 12, 2011

DATE REPORTED: Dec 19, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-10M-1	MV-11BH-10M-2
				3008313	3008315
Naphthalene	µg/g	50	0.01	0.50	<0.01
2-Methylnaphthalene	µg/g		0.01	0.65	<0.01
1-Methylnaphthalene	µg/g		0.01	0.28	<0.01
Acenaphthylene	µg/g		0.01	0.02	<0.01
Acenaphthene	µg/g		0.01	<0.01	<0.01
Fluorene	µg/g		0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	<0.02	<0.02
Anthracene	µg/g		0.02	<0.02	<0.02
Fluoranthene	µg/g		0.05	<0.05	<0.05
Pyrene	µg/g	100	0.02	0.02	<0.02
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02
Chrysene	µg/g		0.05	0.06	<0.05
Benzo(b)fluoranthene	µg/g	10	0.02	0.02	<0.02
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<25	<25
HEPH C19-C32	µg/g	5000	25	196	<25
Surrogate	Unit	Acceptable Limits			
Nitrobenzene - d5	%		50-130	83	96
2-Fluorobiphenyl	%		50-130	91	104
P-Terphenyl - d14	%		60-130	87	95

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008313-3008315 Results are based on dry weight of sample.

LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 12, 2011

DATE RECEIVED: Dec 12, 2011

DATE REPORTED: Dec 19, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-10M-1	MV-11BH-10M-2
				3008313	3008315
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	2500	10	522	<10
C34 - C50 (F4)	mg/kg	6600	10	822	<10
Moisture Content	%		1	15.5	20
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		93	87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,F)

3008313-3008315 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559211
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 19, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony	20111	3008313	0.27	0.31	13.8%	< 0.05	100%	70%	130%	92%	90%	110%	108%	80%	120%	
Arsenic	20111	3008313	3.1	3.0	3.3%	< 0.1	106%	70%	130%	99%	90%	110%	95%	80%	120%	
Barium	20111	3008313	51.8	48.6	6.0%	< 0.5	91%	70%	130%	109%	90%	110%	94%	80%	120%	
Beryllium	20111	3008313	0.18	0.17	6.0%	< 0.02	101%	70%	130%	104%	90%	110%	102%	80%	120%	
Boron (Hot Water Soluble)	20111	3008313	<0.1	<0.1	0.0%	< 0.1				99%	90%	110%	96%	80%	120%	
Cadmium	20111	3008313	0.11	0.10	10.0%	< 0.01				103%	90%	110%	97%	80%	120%	
Chromium	20111	3008313	21	18	15.0%	< 1	106%	70%	130%	101%	90%	110%	95%	80%	120%	
Cobalt	20111	3008313	7.1	6.5	9.0%	< 0.1	98%	70%	130%	102%	90%	110%	94%	80%	120%	
Copper	20111	3008313	14.2	13.4	6.0%	< 0.2	94%	70%	130%	102%	90%	110%	94%	80%	120%	
Lead	20111	3008313	3.13	3.45	10.0%	< 0.05	91%	70%	130%	102%	90%	110%	97%	80%	120%	
Mercury	20111	3008313	0.03	0.02	40.0%	< 0.01	99%	70%	130%	107%	90%	110%	107%	80%	120%	
Molybdenum	20111	3008313	0.32	0.41	25.0%	< 0.05	92%	70%	130%	106%	90%	110%	101%	80%	120%	
Nickel	20111	3008313	26.8	24.5	9.0%	< 0.5	99%	70%	130%	103%	90%	110%	96%	80%	120%	
Selenium	20111	3008313	0.2	0.1	67.0%	< 0.1				104%	90%	110%	113%	80%	120%	
Silver	20111	3008313	<0.05	<0.05	0.0%	< 0.05				102%	90%	110%	96%	80%	120%	
Thallium	20111	3008313	<0.05	<0.05	0.0%	< 0.05				106%	90%	110%	97%	80%	120%	
Tin	20111	3008313	0.22	0.23	4.0%	< 0.05				97%	90%	110%	97%	80%	120%	
Uranium	20111	3008313	0.27	0.28	3.6%	< 0.05		0%	0%	99%	90%	110%	105%	80%	120%	
Vanadium	20111	3008313	41	38	8.0%	< 1	109%	70%	130%	102%	90%	110%	97%	80%	120%	
Zinc	20111	3008313	52	41	24.0%	< 1	109%	70%	130%	98%	90%	110%	116%	80%	120%	
pH 1:2	1	3008313	7.7	7.8	1.3%	< 0.1				100%	95%	105%	95%	90%	110%	

Certified By: 

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559211
 ATTENTION TO: Amanda Salway

Trace Organics Analysis

RPT Date: Dec 19, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
LEPH/HEPH Soil (180-423)																
Naphthalene	1	3008313	0.5	0.36	32.6%	< 0.01	102%	80%	120%				113%	50%	130%	
2-Methylnaphthalene	1	3008313	0.65	0.45	36.0%	< 0.01	102%	80%	120%				113%	50%	130%	
1-Methylnaphthalene	1	3008313	0.28	0.19	38.0%	< 0.01	103%	80%	120%				115%	50%	130%	
Acenaphthylene	1	3008313	NA	NA	0.0%	< 0.01	102%	80%	120%				106%	50%	130%	
Acenaphthene	1	3008313	<0.01	<0.01	0.0%	< 0.01	104%	80%	120%				103%	50%	130%	
Fluorene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				109%	50%	130%	
Phenanthrene	1	3008313	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				102%	60%	130%	
Anthracene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				91%	60%	130%	
Fluoranthene	1	3008313	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				109%	60%	130%	
Pyrene	1	3008313	0.02	<0.02	0.0%	< 0.02	101%	80%	120%				108%	60%	130%	
Benzo(a)anthracene	1	3008313	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%				104%	60%	130%	
Chrysene	1	3008313	0.06	<0.05	0.0%	< 0.05	101%	80%	120%				110%	60%	130%	
Benzo(b)fluoranthene	1	3008313	0.02	<0.02	0.0%	< 0.02	100%	80%	120%				88%	60%	130%	
Benzo(k)fluoranthene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				107%	60%	130%	
Benzo(a)pyrene	1	3008313	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				101%	60%	130%	
Indeno(1,2,3-c,d)pyrene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				100%	60%	130%	
Dibenzo(a,h)anthracene	1	3008313	<0.02	<0.02	0.0%	< 0.02	101%	80%	130%				93%	60%	130%	
Benzo(g,h,i)perylene	1	3008313	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				105%	60%	130%	
Nitrobenzene - d5	1	3008313	83	128	43.0%	<	98%	80%	120%				88%	50%	130%	
2-Fluorobiphenyl	1	3008313	91	113	22.0%	<	101%	80%	120%				100%	50%	130%	
P-Terphenyl - d14	1	3008313	87	108	22.0%	<	100%	80%	120%				92%	60%	130%	
Petroleum Hydrocarbons (F2-F4) in Soil																
C10 - C16 (F2)	873	2986212	<10	<10	NA	< 10	106%	80%	120%	102%	80%	120%	102%	60%	140%	
C16 - C34 (F3)	873	2986212	24	29	NA	< 10	106%	80%	120%	96%	80%	120%	103%	60%	140%	
C34 - C50 (F4)	873	2986212	14	16	NA	< 10	106%	80%	120%	98%	80%	120%	104%	60%	140%	

Certified By: _____



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559211

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID



AGAT

Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph: 778.452.4000 - Fax: 778.452.7074

Report To:

Company: FRANZ ENVIRONMENTAL
Contact: AMANDA SALWAY
Address: 308-1080 MOUNTAIN ST
VANCOUVER, BC V6B 2T4
Phone: 604 682-9941 Fax: 604 682-9941
LSD:
Client Project #: 2090-1103

Report Information

1. Name: AMANDA SALWAY
Email: ASALWAY@FRANZBC.COM
2. Name: VIVIANE DUBOIS-CÔTE
Email: VDUBOIS@FRANZBC.COM

Regulatory Requirements (Check):

- BC CSR - Soil** **BC CSR - Water**
- Agricultural Drinking Water
 - Industrial Aquatic Life
 - Urban/Park Irrigation
 - Commercial Livestock
- CCME**
- Drinking Water Industrial
 - Residential/Park Drinking Water
 - Commercial FWAL

Invoice To:

Same as above Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/AFE #: _____

Turnaround Time Required (TAT)
Regular TAT 5 to 7 working days
Rush TAT 24 to 48 hours
48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: 10°C / 50°C
AGAT Job Number: _____

Notes: _____

DEC 12 PM 5:52

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	BC CSR Schedule II	Routine Potability	CCME F2-F4	CSR OVER CCME METALS	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1-YEAR
308313	MV-11BK-10M-1	SOIL	12/12/2011							X	X				X
315	MV-11BK-10M-2									X	X				X
316	MV-11BK-10M-3									X	X				X
317	MV-11BK-10M-4									X	X				X
318	MV-11BK-10M-5									X	X				X
319	MV-11BK-08-1									X	X				X
321	MV-11BK-08-2									X	X				X
322	MV-11BK-08-3									X	X				X
324	MV-11BK-08-4									X	X				X
325	MV-11BK-08-5									X	X				X
326	MV-DUP1									X	X				X
327	MV-11BK-06-1									X	X				X

Samples Relinquished by (print name & sign): AMANDA SALWAY Date: 12/12/2011
 Samples Relinquished by (print name & sign): AMANDA SALWAY Date: 12/12/2011
 Samples Relinquished by (print name & sign): AMANDA SALWAY Date: 12/12/2011
 Samples Received by (Print name & sign): AMANDA SALWAY
 Samples Received by (Print name & sign): AMANDA SALWAY
 Samples Received by (Print name & sign): AMANDA SALWAY

Page 1 of 2
NO: 000286



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Report To:
 Company: SAME AS PREVIOUS
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 LSD: _____
 Client Project #: 2010-1103

Report Information
 1. Name: SAME AS PREVIOUS
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil BC CSR - Water
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only
 Arrival Temperature: 10°C / 5°C
 AGAT Job Number: 11V559211

Date Required: _____
 Please contact laboratory if Rush is required

Notes: DEC 12 PM 5:52

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/A/E #: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	VOCs	BC CSR Schedule II	Routine Potability	CSR and CCME METALS	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1-YEAR - 60 days
3008328	MV-11BK-06-2	SOIL	12/12/2011								X				X
3329	MV-11BK-06-3										X				X
331	MV-11BK-06-4										X				X
332	MV-11BK-06-5										X				X
333	MV-11BK-06-6										X				X
334	MV-11BK-05-1										X				X
335	MV-11BK-05-2										X				X
336	MV-11BK-05-3										X				X
338	MV-11BK-05-4										X				X
339	MV-11BK-05-5										X				X

Samples Relinquished by (print name & sign): ARAGODA SANKU Date: 12/12/2011
 Samples Relinquished by (print name & sign): ARAGODA SANKU Date: 12/12/2011
 Samples Relinquished by (print name & sign): _____ Date: _____

Date Received by (Print name & sign): Arnold Bond Singh Bond
 Samples Received by (Print name & sign): _____
 Samples Received by (Print name & sign): _____

Date: Dec 14/11 17:52
 Page 2 of 2
 Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT
 NO: 000287



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # _____

RECEIVING BASICS:

*Complete CoC as well where required

Date and Time: December 12/11 17:52

Courier: n/a

Received by: AB

Relinquished by: Amanda S.

Branch Received From: n/a

Company: Franz Environmental

Consultant: n/a

Client left without count verified: no

CoC INFORMATION:

Received Yes No Emailed to PM

Completed in full: Yes No If NO, why: _____

TURNAROUND TIME: 289

CoC Numbers: 000286, 287

SAMPLE QUANTITIES:

Coolers: _____ Bottles/Jars: 32 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 12-DEC-11

Microbiology: Test: _____

Hydrocarbons: Test: LEPH/HEPH

Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No

Expiry: _____

Expiry: 19-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A

International Samples: Yes No

**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____

Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.

Correct bottles used for testing: Yes No

If No, explain: _____

Correct amount of sample for analysis: Yes No

If No, explain: _____

Are all samples labeled correctly Yes No

If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 9 + 10 + 10 = 10°C (2) 4 + 6 + 6 = 5°C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

1) _____

2) _____

3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No

Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM Work order # 11V559211

RECEIVING BASICS:
 *Complete CoC as well where required
 Date and Time: DEC. 15, 2011 / 8:16
 Courier: DHL
 Received by: JAN
 Relinquished by: _____
 Company: FRANZ ENVIRONMENTAL
 Consultant: _____
 Client left without count verified: _____

COC INFORMATION:
 Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: REGULAR
 COC Numbers: 000206 WO# 11V559211

SAMPLE QUANTITIES:
 Coolers: 1 Bottles/Jars: 2 Bags: 0

TIME SENSITIVE ISSUES:
 Earliest Date Sampled: DEC. 12, 2011
 Microbiology: Test: _____
 Hydrocarbons: Test: _____
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: _____

SPECIALTY ISSUES:
 Legal Samples: Yes No
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:
 *Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:
 3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)
 (1) 3 + 3 + _____ = 3 °C (2) _____ + _____ + _____ = _____ °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available
JAN W/ICE
 Additional integrity issues (note here and on CoC next to the sample ID):
 1) _____
 2) _____
 3) _____
 Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559248

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 15

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-09-1	MV-11BH-09-2	MV-11BH-07M-1	MV-11BH-07M-3
				3008714	3008722	3008753	3008755
Antimony	µg/g	40	0.05	0.40	0.33	0.34	0.49
Arsenic	µg/g	15	0.1	2.8	2.3	2.8	3.0
Barium	µg/g	400	0.5	110	107	58.0	153
Beryllium	µg/g	8	0.02	0.31	0.30	0.18	0.43
Boron (Hot Water Soluble)	µg/g		0.1	0.5	0.4	0.1	0.9
Cadmium	µg/g		0.01	0.13	0.09	0.12	0.50
Chromium	µg/g	60	1	38	36	28	40
Cobalt	µg/g	300	0.1	5.1	5.4	7.1	3.8
Copper	µg/g		0.2	17.1	14.8	16.8	15.3
Lead	µg/g		0.05	11.4	9.03	3.23	16.6
Mercury	µg/g		0.01	0.06	0.05	0.03	0.07
Molybdenum	µg/g	40	0.05	0.70	0.58	0.57	0.61
Nickel	µg/g	500	0.5	18.9	19.6	29.5	18.1
Selenium	µg/g	10	0.1	0.3	0.4	0.2	0.8
Silver	µg/g	40	0.05	0.08	0.06	<0.05	0.10
Thallium	µg/g		0.05	0.14	0.14	<0.05	0.19
Tin	µg/g	300	0.05	0.66	0.49	0.33	2.50
Uranium	µg/g	200	0.05	0.79	0.73	0.33	1.11
Vanadium	µg/g		1	48	44	41	41
Zinc	µg/g		1	62	53	43	89
pH 1:2	pH units		0.1	6.5	6.5	8.7	7.2

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008714-3008755 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenols, Total - 4AAP (181-140)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-15M-1		MV-11BH-15M-3		MV-Dup 3
				3008734	RDL	3008736	3008752	
Phenolics, Total	µg/g	10	0.05	0.24	0.1	4.4	2.7	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

BTEX / VPH / LEPH/HEPH Soil (180-028)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-14M-3		MV-11BH-14M-4	
				3008762	RDL	3008764	
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	0.1	<0.1	
Benzene	µg/g	0.04	0.02	<0.02	0.02	<0.02	
Toluene	µg/g	2.5	0.05	<0.05	0.05	<0.05	
Ethylbenzene	µg/g	7	0.05	<0.05	0.05	<0.05	
m&p-Xylene	µg/g	20	0.05	<0.05	0.05	<0.05	
o-Xylene	µg/g	20	0.05	<0.05	0.05	<0.05	
Styrene	µg/g	50	0.05	<0.05	0.05	<0.05	
VPH	µg/g	200	10	<10	10	40	
Naphthalene	µg/g	50	0.01	<0.01	0.02	<0.02	
2-Methylnaphthalene	µg/g		0.01	<0.01	0.02	<0.02	
1-Methylnaphthalene	µg/g		0.01	0.01	0.02	<0.02	
Acenaphthylene	µg/g		0.01	<0.01	0.02	<0.02	
Acenaphthene	µg/g		0.01	<0.01	0.02	<0.02	
Fluorene	µg/g		0.02	<0.02	0.04	<0.04	
Phenanthrene	µg/g	50	0.02	<0.02	0.04	<0.04	
Anthracene	µg/g		0.02	<0.02	0.04	<0.04	
Fluoranthene	µg/g		0.05	<0.05	0.1	<0.1	
Pyrene	µg/g	100	0.02	<0.02	0.04	<0.04	
Benzo(a)anthracene	µg/g	10	0.02	<0.02	0.04	<0.04	
Chrysene	µg/g		0.05	<0.05	0.1	<0.1	
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	0.04	<0.04	
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	0.04	<0.04	
Benzo(a)pyrene	µg/g		0.05	<0.05	0.1	<0.1	
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	0.04	<0.04	
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	0.04	<0.04	
Benzo(g,h,i)perylene	µg/g		0.05	0.05	0.1	<0.1	
LEPH C10-C19	µg/g	2000	25	38	25	<50	
HEPH C19-C32	µg/g	5000	25	162	25	338	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

BTEX / VPH / LEPH/HEPH Soil (180-028)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-14M-3	MV-11BH-14M-4
			3008762	3008764
Nitrobenzene - d5	%	50-130	87	92
2-Fluorobiphenyl	%	50-130	94	99
P-Terphenyl - d14	%	50-130	89	95
Bromofluorobenzene	%	70-130	98.3	105
Toluene - d8	%	70-130	105	110

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008762 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3008764 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits elevated due to high sample moisture content.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-16M-1	MV-11BH-16M-5	MV-Dup 2	MV-11BH-14M-3	MV-11BH-14M-4
				3008727	3008731	3008732	3008762	3008764
Benzene	mg/kg		0.005		<0.005	<0.005	<0.005	<0.005
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10
Toluene	mg/kg		0.05		<0.05	<0.05	<0.05	<0.05
C16 - C34 (F3)	mg/kg		10	<10	<10	<10	115	304
Ethylbenzene	mg/kg		0.01		<0.01	<0.01	<0.01	<0.01
C34 - C50 (F4)	mg/kg		10	12	<10	<10	87	164
Xylenes	mg/kg		0.05		<0.05	<0.05	<0.05	<0.05
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A
C6 - C10 (F1)	mg/kg		10		<10	<10	<10	<10
Moisture Content	%		1	19	23	19	47	68
C6 - C10 (F1 minus BTEX)	mg/kg		10		<10	<10	<10	<10
Surrogate	Unit	Acceptable Limits						
Toluene-d8 (BTEX)	%	50-150		99	98	101	100	98
Ethylbenzene-d10 (BTEX)	%	50-150		99	98	102	88	82
o-Terphenyl (F2-F4)	%	50-150		98	103	98	98	100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3008727-3008764 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-16M-1	MV-11BH-16M-5	MV-Dup 2	MV-11BH-07M-2	RDL	MV-11BH-07M-4
				3008727	3008731	3008732	3008754		3008756
Naphthalene	µg/g	50	0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
Methyl tert-butyl ether (MTBE)	µg/g		0.1				<0.1	0.4	<0.4
Benzene	µg/g		0.02				<0.02	0.08	<0.08
2-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
Toluene	µg/g		0.05				<0.05	0.2	<0.2
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
Ethylbenzene	µg/g		0.05				<0.05	0.2	<0.2
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
m&p-Xylene	µg/g		0.05				<0.05	0.2	<0.2
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
o-Xylene	µg/g		0.05				<0.05	0.2	<0.2
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Styrene	µg/g		0.05				<0.05	0.2	<0.2
Phenanthrene	µg/g	50	0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.11
VPH	µg/g		10				<10	40	<40
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Fluoranthene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
Pyrene	µg/g	100	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	113	25	139
HEPH C19-C32	µg/g	5000	25	<25	<25	<25	12800	25	1230
EPH C10-C19	µg/g		25				113	25	139
EPH C19-C32	µg/g		25				12800	25	1230

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 13, 2011		DATE RECEIVED: Dec 14, 2011		DATE REPORTED: Dec 23, 2011		SAMPLE TYPE: Soil	
Surrogate	Unit	Acceptable Limits	MV-11BH-16M-1 3008727	MV-11BH-16M-5 3008731	MV-Dup 2 3008732	MV-11BH-07M-2 3008754	MV-11BH-07M-4 3008756
Nitrobenzene - d5	%	50-130	84	85	82	75	102
2-Fluorobiphenyl	%	50-130	99	109	101	94	84
P-Terphenyl - d14	%	60-130	89	99	91	89	94
Bromofluorobenzene	%	70-130				111	114
Toluene - d8	%	70-130				121	115

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008727-3008732 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.

3008754 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3008756 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits increased due to high moisture content.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559248
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony	20111	3008313	0.27	0.31	14.0%	< 0.05	100%	70%	130%	108%	90%	110%	92%	80%	120%	
Arsenic	20111	3008313	3.1	2.9	6.7%	< 0.1	106%	70%	130%	99%	90%	110%	95%	80%	120%	
Barium	20111	3008313	51.8	48.6	6.0%	< 0.5	91%	70%	130%	109%	90%	110%	94%	80%	120%	
Beryllium	20111	3008313	0.18	0.17	6.0%	< 0.02	101%	70%	130%	104%	90%	110%	102%	80%	120%	
Boron (Hot Water Soluble)	20111	3008313	0.5	0.5	0.0%	< 0.1				99%	90%	110%	106%	80%	120%	
Cadmium	20111	3008313	0.11	0.10	10.0%	< 0.01				103%	90%	110%	97%	80%	120%	
Chromium	20111	3008313	21	18	15.0%	< 1	106%	70%	130%	101%	90%	110%	95%	80%	120%	
Cobalt	20111	3008313	7.1	6.5	9.0%	< 0.1	98%	70%	130%	102%	90%	110%	94%	80%	120%	
Copper	20111	3008313	14.2	13.4	6.0%	< 0.2	94%	70%	130%	102%	90%	110%	94%	80%	120%	
Lead	20111	3008313	3.13	3.45	10.0%	< 0.05	91%	70%	130%	102%	90%	110%	97%	80%	120%	
Mercury	20111	3008313	0.03	0.02	NA	< 0.01	99%	70%	130%	95%	90%	110%	107%	80%	120%	
Molybdenum	20111	3008313	0.32	0.41	25.0%	< 0.05	92%	70%	130%	106%	90%	110%	101%	80%	120%	
Nickel	20111	3008313	26.8	24.5	9.0%	< 0.5	99%	70%	130%	103%	90%	110%	96%	80%	120%	
Selenium	20111	3008313	0.2	0.1	NA	< 0.1				104%	90%	110%	113%	80%	120%	
Silver	20111	3008313	<0.05	<0.05	0.0%	< 0.05				102%	90%	110%	96%	80%	120%	
Thallium	20111	3008313	<0.05	<0.05	0.0%	< 0.05				106%	90%	110%	97%	80%	120%	
Tin	20111	3008313	0.22	0.23	4.0%	< 0.05				102%	90%	110%	97%	80%	120%	
Uranium	20111	3008313	0.27	0.28	3.6%	< 0.05		0%	0%	102%	90%	110%	99%	80%	120%	
Vanadium	20111	3008313	41	38	8.0%	< 1	109%	70%	130%	102%	90%	110%	97%	80%	120%	
Zinc	20111	3008313	52	41	24.0%	< 1	109%	70%	130%	105%	90%	110%	116%	80%	120%	
pH 1:2	20111	3008313	7.7	7.8	1.3%	< 0.1				100%	95%	105%	99%	90%	110%	
Phenols, Total - 4AAP (181-140)																
Phenolics, Total	1	3008734	0.24	0.24	0.0%	< 0.05	70%	70%	130%	90%	90%	110%	89%	80%	120%	

Certified By: 

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

BTEX / VPH / LEPH/HEPH Soil (180-028)

Methyl tert-butyl ether (MTBE)	1	3008762	<0.1	<0.1	0.0%	< 0.1	100%	80%	120%			101%	70%	130%
Benzene	1	3008762	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			102%	70%	130%
Toluene	1	3008762	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			99%	70%	130%
Ethylbenzene	1	3008762	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			88%	70%	130%
m&p-Xylene	1	3008762	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			85%	70%	130%
o-Xylene	1	3008762	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			86%	70%	130%
Styrene	1	3008762	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			87%	70%	130%
VPH	1	3008762	<10	<10	0.0%	< 10								
Bromofluorobenzene	1	3008762	98.3	101	3.0%	<	107%	70%	130%			115%	70%	130%
Toluene - d8	1	3008762	105	115	9.0%	<	101%	70%	130%			121%	70%	130%

Petroleum Hydrocarbons in Soil

Naphthalene	1	559211	0.5	0.36	32.6%	< 0.01	102%	80%	120%			113%	50%	130%
2-Methylnaphthalene	1	559211	0.65	0.45	36.0%	< 0.01	102%	80%	120%			113%	50%	130%
1-Methylnaphthalene	1	559211	0.28	0.19	38.0%	< 0.01	103%	80%	120%			115%	50%	130%
Acenaphthylene	1	559211	NA	NA	0.0%	< 0.01	102%	80%	120%			106%	50%	130%
Acenaphthene	1	559211	<0.01	<0.01	0.0%	< 0.01	104%	80%	120%			103%	50%	130%
Fluorene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			109%	50%	130%
Phenanthrene	1	559211	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			102%	60%	130%
Anthracene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%
Fluoranthene	1	559211	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			109%	60%	130%
Pyrene	1	559211	0.02	<0.02	0.0%	< 0.02	101%	80%	120%			108%	60%	130%
Benzo(a)anthracene	1	559211	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%			104%	60%	130%
Chrysene	1	559211	0.06	<0.05	0.0%	< 0.05	101%	80%	120%			110%	60%	130%
Benzo(b)fluoranthene	1	559211	0.02	<0.02	0.0%	< 0.02	100%	80%	120%			88%	60%	130%
Benzo(k)fluoranthene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			107%	60%	130%
Benzo(a)pyrene	1	559211	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			101%	60%	130%
Indeno(1,2,3-c,d)pyrene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			100%	60%	130%
Dibenzo(a,h)anthracene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	130%			93%	60%	130%
Benzo(g,h,i)perylene	1	559211	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			105%	60%	130%
Nitrobenzene - d5	1	559211	83	128	43.0%	<	98%	80%	120%			88%	50%	130%
2-Fluorobiphenyl	1	559211	91	113	22.0%	<	101%	80%	120%			100%	50%	130%
P-Terphenyl - d14	1	559211	87	108	22.0%	<	100%	80%	120%			92%	60%	130%

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

C10 - C16 (F2)	849	3013650	<10	<10	NA	< 10	103%	80%	120%	103%	80%	120%	95%	60%	140%
C16 - C34 (F3)	849	3013650	<10	<10	NA	< 10	103%	80%	120%	100%	80%	120%	96%	60%	140%
C34 - C50 (F4)	849	3013650	<10	<10	NA	< 10	103%	80%	120%	99%	80%	120%	99%	60%	140%

Petroleum Hydrocarbons in Soil

Methyl tert-butyl ether (MTBE)	1	3008754	<0.1	<0.1	0.0%	< 0.1	104%	80%	120%			89%	70%	130%
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Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559248
 ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Benzene	1	3008754	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			95%	70%	130%		
Toluene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	70%	130%		
Ethylbenzene	1	3008754	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			84%	70%	130%		
m&p-Xylene	1	3008754	<0.05	<0.05	0.0%	< 0.05	106%	80%	120%			79%	70%	130%		
o-Xylene	1	3008754	<0.05	<0.05	0.0%	< 0.05	107%	80%	120%			82%	70%	130%		
Styrene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			85%	70%	130%		
VPH	1	3008754	<10	<10	0.0%	< 10										
Naphthalene	1	3008754	<0.01	<0.01	0.0%	< 0.01	102%	80%	120%			105%	50%	130%		
2-Methylnaphthalene	1	3008754	<0.01	<0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%		
1-Methylnaphthalene	1	3008754	<0.01	<0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%		
Acenaphthylene	1	3008754	<0.01	<0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%		
Acenaphthene	1	3008754	<0.01	0.01	0.0%	< 0.01	105%	80%	120%			90%	50%	130%		
Fluorene	1	3008754	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%		
Phenanthrene	1	3008754	<0.02	<0.02	0.0%	< 0.02	98%	80%	120%			92%	60%	130%		
Anthracene	1	3008754	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%		
Fluoranthene	1	3008754	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%		
Pyrene	1	3008754	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			98%	60%	130%		
Benzo(a)anthracene	1	3008754	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%		
Chrysene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%		
Benzo(b)fluoranthene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%		
Benzo(k)fluoranthene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%		
Benzo(a)pyrene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%		
Indeno(1,2,3-c,d)pyrene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%		
Dibenzo(a,h)anthracene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%		
Benzo(g,h,i)perylene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%		
Nitrobenzene - d5	1	3008754	75	83	10.0%	<	100%	80%	120%			100%	50%	130%		
2-Fluorobiphenyl	1	3008754	94	89	5.0%	<	101%	80%	120%			91%	50%	130%		
P-Terphenyl - d14	1	3008754	89	82	8.0%	<	98%	80%	120%			88%	50%	130%		
LEPH C10-C19	1	3008754	113	128	12.0%	< 25										
HEPH C19-C32	1	3008754	12800	12500	2.0%	< 25										
Bromofluorobenzene	1	3008754	111	103	7.0%	<	105%	70%	130%			113%	70%	130%		
Toluene - d8	1	3008754	121	125	3.0%	<	93%	70%	130%			114%	70%	130%		
EPH C10-C19	1	3008754	113	128	12.0%	<	91%	90%	110%	70%	130%	88%	70%	130%		
EPH C19-C32	1	3008754	12800	12500	2.0%	<	97%	90%	110%	70%	130%	88%	70%	130%		

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER
Phenolics, Total	INOR-181-6014, LAB-181-4013	Modified from EPA 9013A and BC MOE Lab Manual	CONTINUOUS FLOW ANALYZER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
EPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
EPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID



Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Ph.: 778.452.4000 • Fax: 778.452.7074

Chain of Custody Record

Report To:
 Company: Same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):

BC CSR - Soil **BC CSR - Water**

Agricultural Drinking Water

Industrial Aquatic Life

Urban/Park Irrigation

Commercial Livestock

CCME

Drinking Water Industrial

Residential/Park Drinking Water

Commercial FWAL

Invoice To: Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/AFE #: _____

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: _____
 AGAT Job Number: 11V539248

Notes: DEC 14 AM 8:03

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	VOCs	BC CSR Schedule II	Routine Potability	CSR and CCME Metals	Phenols	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 4 YEAR 60 days
300874	MV-118K-15M-1	Soil	13/12/2011													
735	MV-118K-15M-2															
736	MV-118K-15M-3															
740	MV-118K-15M-4															
743	MV-118K-15M-5															
750	MV-DUP3															
753	MV-118K-07M-1															
754	MV-118K-07M-2															
755	MV-118K-07M-3															
756	MV-118K-07M-4															
757	MV-118K-07M-5															
758	MV-118K-07M-6															
Samples Relinquished by (print name & sign): <u>Mona</u> Date: <u>13/12/2011</u> Samples Relinquished by (print name & sign): <u>S. Cordus</u> Date: <u>14 DEC-11 e 8:02 AM</u> Samples Relinquished by (print name & sign): _____ Date: _____ Samples Relinquished by (print name & sign): _____ Date: _____																



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: same as previous
 Contact: previous
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil BC CSR - Water
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only
 Arrival Temperature: _____
 AGAT Job Number: 11V559248
 Notes: DEC 14 AMB:03

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/AFE #: _____

Comments - Site/Sample Info.
 Sample Containment

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR
3058759	MV-118M-14M-1	SOIL	13/12/2011	XX	XX							XX
1761	MV-118M-14M-2	↓	↓	XX	XX							XX
1762	MV-118M-14M-3	↓	↓	XX	XX							XX
1764	MV-118M-14M-4	↓	↓	XX	XX							XX
1766	MV-118M-14M-5	↓	↓	XX	XX							XX

Samples Relinquished by (print name & sign): Armando Salazar Date: 13/12/2011
Samples Relinquished by (print name & sign): S. Cousins Date: 14-DEC-11 @ 8:02 AM
Samples Relinquished by (print name & sign): _____ Date: _____

Samples Received by (Print Name & sign): _____ Date: _____
Samples Received by (Print Name & sign): _____ Date: _____
Samples Received by (Print Name & sign): _____ Date: _____

Client Information
 Client: _____
 Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT

Page 3 of 3
 NO: 000290



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY Work Order # _____

RECEIVING BASICS:

*Complete CoC as well where required
 Date and Time: 14-DEC-11 @ 8:02AM
 Courier: _____
 Received by: S. COUZENS
 Relinquished by: Amarda Salway
 Branch Received From: _____
 Company: Franz Env
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg
 CoC Numbers: 000288, 289, 290

SAMPLE QUANTITIES:

Coolers: 2 Bottles/Jars: 34 Bags: 6

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 13-DEC-11
 Microbiology: Test: _____
 Hydrocarbons: Test: LEPH/HEPH
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: 20-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 4+4+3 = 4 °C (2) 0+0+1 = 0 °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) _____
- 2) _____
- 3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM Work order # 11V559248

RECEIVING BASICS:

*Complete CoC as well where required

Date and Time: DEC. 15, 2011 / 8:16

Courier: DHL

Received by: JAN

Relinquished by: _____

Company: _____

Consultant: FRANZ ENVIRONMENTAL

Client left without count verified: _____

COC INFORMATION:

Received Yes No Emailed to PM

Completed in full: Yes No If NO, why: _____

TURNAROUND TIME: REGULAR

COC Numbers: 000280 with 11V559248

SAMPLE QUANTITIES:

Coolers: 1 Bottles/Jars: 5 Bags: 0

TIME SENSITIVE ISSUES:

Earliest Date Sampled: DEC. 13, 2011

Microbiology: Test: _____

Hydrocarbons: Test: _____

Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No

Expiry: _____

Expiry: _____

SPECIALTY ISSUES:

Legal Samples: Yes No

International Samples: Yes No

**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____

Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.

Correct bottles used for testing: Yes No

If No, explain: _____

Correct amount of sample for analysis: Yes No

If No, explain: _____

Are all samples labeled correctly: Yes No

If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 3 + 3 = 3 °C (2) _____ + _____ + _____ = _____ °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C

*Jars used when available

JARS w/ ice

Additional integrity issues (note here and on CoC next to the sample ID):

1) _____

2) _____

3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No

Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559248

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 15

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-09-1	MV-11BH-09-2	MV-11BH-07M-1	MV-11BH-07M-3
				3008714	3008722	3008753	3008755
Antimony	µg/g	40	0.05	0.40	0.33	0.34	0.49
Arsenic	µg/g	12	0.1	2.8	2.3	2.8	3.0
Barium	µg/g	2000	0.5	110	107	58.0	153
Beryllium	µg/g	8	0.02	0.31	0.30	0.18	0.43
Boron (Hot Water Soluble)	µg/g	1.4	0.1	0.5	0.4	0.1	0.9
Cadmium	µg/g	22	0.01	0.13	0.09	0.12	0.50
Chromium	µg/g	87	1	38	36	28	40
Cobalt	µg/g	300	0.1	5.1	5.4	7.1	3.8
Copper	µg/g	91	0.2	17.1	14.8	16.8	15.3
Lead	µg/g	600	0.05	11.4	9.03	3.23	16.6
Mercury	µg/g	50	0.01	0.06	0.05	0.03	0.07
Molybdenum	µg/g	40	0.05	0.70	0.58	0.57	0.61
Nickel	µg/g	50	0.5	18.9	19.6	29.5	18.1
Selenium	µg/g	2.9	0.1	0.3	0.4	0.2	0.8
Silver	µg/g	40	0.05	0.08	0.06	<0.05	0.10
Thallium	µg/g	1	0.05	0.14	0.14	<0.05	0.19
Tin	µg/g	300	0.05	0.66	0.49	0.33	2.50
Uranium	µg/g	300	0.05	0.79	0.73	0.33	1.11
Vanadium	µg/g	130	1	48	44	41	41
Zinc	µg/g	360	1	62	53	43	89
pH 1:2	pH units		0.1	6.5	6.5	8.7	7.2

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)
 3008714-3008755 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenols, Total - 4AAP (181-140)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-15M-1		MV-11BH-15M-3		MV-Dup 3
				3008734	RDL	3008736	3008752	
Phenolics, Total	µg/g	10	0.05	0.24	0.1	4.4	2.7	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

BTEX / VPH / LEPH/HEPH Soil (180-028)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-14M-3		MV-11BH-14M-4	
				3008762	RDL	3008764	
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	0.1	<0.1	
Benzene	µg/g	0.04	0.02	<0.02	0.02	<0.02	
Toluene	µg/g	2.5	0.05	<0.05	0.05	<0.05	
Ethylbenzene	µg/g	7	0.05	<0.05	0.05	<0.05	
m&p-Xylene	µg/g	20	0.05	<0.05	0.05	<0.05	
o-Xylene	µg/g	20	0.05	<0.05	0.05	<0.05	
Styrene	µg/g	50	0.05	<0.05	0.05	<0.05	
VPH	µg/g	200	10	<10	10	40	
Naphthalene	µg/g	50	0.01	<0.01	0.02	<0.02	
2-Methylnaphthalene	µg/g		0.01	<0.01	0.02	<0.02	
1-Methylnaphthalene	µg/g		0.01	0.01	0.02	<0.02	
Acenaphthylene	µg/g		0.01	<0.01	0.02	<0.02	
Acenaphthene	µg/g		0.01	<0.01	0.02	<0.02	
Fluorene	µg/g		0.02	<0.02	0.04	<0.04	
Phenanthrene	µg/g	50	0.02	<0.02	0.04	<0.04	
Anthracene	µg/g		0.02	<0.02	0.04	<0.04	
Fluoranthene	µg/g		0.05	<0.05	0.1	<0.1	
Pyrene	µg/g	100	0.02	<0.02	0.04	<0.04	
Benzo(a)anthracene	µg/g	10	0.02	<0.02	0.04	<0.04	
Chrysene	µg/g		0.05	<0.05	0.1	<0.1	
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	0.04	<0.04	
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	0.04	<0.04	
Benzo(a)pyrene	µg/g		0.05	<0.05	0.1	<0.1	
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	0.04	<0.04	
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	0.04	<0.04	
Benzo(g,h,i)perylene	µg/g		0.05	0.05	0.1	<0.1	
LEPH C10-C19	µg/g	2000	25	38	25	<50	
HEPH C19-C32	µg/g	5000	25	162	25	338	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

BTEX / VPH / LEPH/HEPH Soil (180-028)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-14M-3	MV-11BH-14M-4
			3008762	3008764
Nitrobenzene - d5	%	50-130	87	92
2-Fluorobiphenyl	%	50-130	94	99
P-Terphenyl - d14	%	50-130	89	95
Bromofluorobenzene	%	70-130	98.3	105
Toluene - d8	%	70-130	105	110

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008762 Results are based on dry weight of sample.
VPH results have been corrected for BTEXS contributions.
LEPH & HEPH results have been corrected for PAH contributions.

3008764 Results are based on dry weight of sample.
VPH results have been corrected for BTEXS contributions.
LEPH & HEPH results have been corrected for PAH contributions.
Detection limits elevated due to high sample moisture content.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-16M-1	MV-11BH-16M-5	MV-Dup 2	MV-11BH-14M-3	MV-11BH-14M-4
				3008727	3008731	3008732	3008762	3008764
Benzene	mg/kg		0.005		<0.005	<0.005	<0.005	<0.005
C10 - C16 (F2)	mg/kg		10	<10	<10	<10	<10	<10
Toluene	mg/kg		0.05		<0.05	<0.05	<0.05	<0.05
C16 - C34 (F3)	mg/kg		10	<10	<10	<10	115	304
Ethylbenzene	mg/kg		0.01		<0.01	<0.01	<0.01	<0.01
C34 - C50 (F4)	mg/kg		10	12	<10	<10	87	164
Xylenes	mg/kg		0.05		<0.05	<0.05	<0.05	<0.05
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A
C6 - C10 (F1)	mg/kg		10		<10	<10	<10	<10
Moisture Content	%		1	19	23	19	47	68
C6 - C10 (F1 minus BTEX)	mg/kg		10		<10	<10	<10	<10
Surrogate	Unit	Acceptable Limits						
Toluene-d8 (BTEX)	%	50-150		99	98	101	100	98
Ethylbenzene-d10 (BTEX)	%	50-150		99	98	102	88	82
o-Terphenyl (F2-F4)	%	50-150		98	103	98	98	100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3008727-3008764 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 13, 2011		DATE RECEIVED: Dec 14, 2011			DATE REPORTED: Dec 23, 2011			SAMPLE TYPE: Soil	
Parameter	Unit	G / S	RDL	MV-11BH-16M-1	MV-11BH-16M-5	MV-Dup 2	MV-11BH-07M-2	RDL	MV-11BH-07M-4
				3008727	3008731	3008732	3008754		3008756
Naphthalene	µg/g	50	0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
Methyl tert-butyl ether (MTBE)	µg/g		0.1				<0.1	0.4	<0.4
Benzene	µg/g		0.02				<0.02	0.08	<0.08
2-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
Toluene	µg/g		0.05				<0.05	0.2	<0.2
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
Ethylbenzene	µg/g		0.05				<0.05	0.2	<0.2
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
m&p-Xylene	µg/g		0.05				<0.05	0.2	<0.2
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.03
o-Xylene	µg/g		0.05				<0.05	0.2	<0.2
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Styrene	µg/g		0.05				<0.05	0.2	<0.2
Phenanthrene	µg/g	50	0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.11
VPH	µg/g		10				<10	40	<40
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Fluoranthene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
Pyrene	µg/g	100	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.06
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.2
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	113	25	139
HEPH C19-C32	µg/g	5000	25	<25	<25	<25	12800	25	1230
EPH C10-C19	µg/g		25				113	25	139
EPH C19-C32	µg/g		25				12800	25	1230

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 13, 2011

DATE RECEIVED: Dec 14, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-16M-1	MV-11BH-16M-5	MV-Dup 2	MV-11BH-07M-2	MV-11BH-07M-4
			3008727	3008731	3008732	3008754	3008756
Nitrobenzene - d5	%	50-130	84	85	82	75	102
2-Fluorobiphenyl	%	50-130	99	109	101	94	84
P-Terphenyl - d14	%	60-130	89	99	91	89	94
Bromofluorobenzene	%	70-130				111	114
Toluene - d8	%	70-130				121	115

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3008727-3008732 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.

3008754 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3008756 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits increased due to high moisture content.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559248
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony	20111	3008313	0.27	0.31	14.0%	< 0.05	100%	70%	130%	108%	90%	110%	92%	80%	120%	
Arsenic	20111	3008313	3.1	2.9	6.7%	< 0.1	106%	70%	130%	99%	90%	110%	95%	80%	120%	
Barium	20111	3008313	51.8	48.6	6.0%	< 0.5	91%	70%	130%	109%	90%	110%	94%	80%	120%	
Beryllium	20111	3008313	0.18	0.17	6.0%	< 0.02	101%	70%	130%	104%	90%	110%	102%	80%	120%	
Boron (Hot Water Soluble)	20111	3008313	0.5	0.5	0.0%	< 0.1				99%	90%	110%	106%	80%	120%	
Cadmium	20111	3008313	0.11	0.10	10.0%	< 0.01				103%	90%	110%	97%	80%	120%	
Chromium	20111	3008313	21	18	15.0%	< 1	106%	70%	130%	101%	90%	110%	95%	80%	120%	
Cobalt	20111	3008313	7.1	6.5	9.0%	< 0.1	98%	70%	130%	102%	90%	110%	94%	80%	120%	
Copper	20111	3008313	14.2	13.4	6.0%	< 0.2	94%	70%	130%	102%	90%	110%	94%	80%	120%	
Lead	20111	3008313	3.13	3.45	10.0%	< 0.05	91%	70%	130%	102%	90%	110%	97%	80%	120%	
Mercury	20111	3008313	0.03	0.02	NA	< 0.01	99%	70%	130%	95%	90%	110%	107%	80%	120%	
Molybdenum	20111	3008313	0.32	0.41	25.0%	< 0.05	92%	70%	130%	106%	90%	110%	101%	80%	120%	
Nickel	20111	3008313	26.8	24.5	9.0%	< 0.5	99%	70%	130%	103%	90%	110%	96%	80%	120%	
Selenium	20111	3008313	0.2	0.1	NA	< 0.1				104%	90%	110%	113%	80%	120%	
Silver	20111	3008313	<0.05	<0.05	0.0%	< 0.05				102%	90%	110%	96%	80%	120%	
Thallium	20111	3008313	<0.05	<0.05	0.0%	< 0.05				106%	90%	110%	97%	80%	120%	
Tin	20111	3008313	0.22	0.23	4.0%	< 0.05				102%	90%	110%	97%	80%	120%	
Uranium	20111	3008313	0.27	0.28	3.6%	< 0.05		0%	0%	102%	90%	110%	99%	80%	120%	
Vanadium	20111	3008313	41	38	8.0%	< 1	109%	70%	130%	102%	90%	110%	97%	80%	120%	
Zinc	20111	3008313	52	41	24.0%	< 1	109%	70%	130%	105%	90%	110%	116%	80%	120%	
pH 1:2	20111	3008313	7.7	7.8	1.3%	< 0.1				100%	95%	105%	99%	90%	110%	
Phenols, Total - 4AAP (181-140)																
Phenolics, Total	1	3008734	0.24	0.24	0.0%	< 0.05	70%	70%	130%	90%	90%	110%	89%	80%	120%	


 Certified By: _____

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL
PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559248
ATTENTION TO: Amanda Salway

Trace Organics Analysis

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

BTEX / VPH / LEPH/HEPH Soil (180-028)

Methyl tert-butyl ether (MTBE)	1	3008762	<0.1	<0.1	0.0%	< 0.1	100%	80%	120%				101%	70%	130%
Benzene	1	3008762	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				102%	70%	130%
Toluene	1	3008762	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				99%	70%	130%
Ethylbenzene	1	3008762	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				88%	70%	130%
m&p-Xylene	1	3008762	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				85%	70%	130%
o-Xylene	1	3008762	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				86%	70%	130%
Styrene	1	3008762	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				87%	70%	130%
VPH	1	3008762	<10	<10	0.0%	< 10									
Bromofluorobenzene	1	3008762	98.3	101	3.0%	<	107%	70%	130%				115%	70%	130%
Toluene - d8	1	3008762	105	115	9.0%	<	101%	70%	130%				121%	70%	130%

Petroleum Hydrocarbons in Soil

Naphthalene	1	559211	0.5	0.36	32.6%	< 0.01	102%	80%	120%				113%	50%	130%
2-Methylnaphthalene	1	559211	0.65	0.45	36.0%	< 0.01	102%	80%	120%				113%	50%	130%
1-Methylnaphthalene	1	559211	0.28	0.19	38.0%	< 0.01	103%	80%	120%				115%	50%	130%
Acenaphthylene	1	559211	NA	NA	0.0%	< 0.01	102%	80%	120%				106%	50%	130%
Acenaphthene	1	559211	<0.01	<0.01	0.0%	< 0.01	104%	80%	120%				103%	50%	130%
Fluorene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				109%	50%	130%
Phenanthrene	1	559211	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				102%	60%	130%
Anthracene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				91%	60%	130%
Fluoranthene	1	559211	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				109%	60%	130%
Pyrene	1	559211	0.02	<0.02	0.0%	< 0.02	101%	80%	120%				108%	60%	130%
Benzo(a)anthracene	1	559211	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%				104%	60%	130%
Chrysene	1	559211	0.06	<0.05	0.0%	< 0.05	101%	80%	120%				110%	60%	130%
Benzo(b)fluoranthene	1	559211	0.02	<0.02	0.0%	< 0.02	100%	80%	120%				88%	60%	130%
Benzo(k)fluoranthene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				107%	60%	130%
Benzo(a)pyrene	1	559211	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				101%	60%	130%
Indeno(1,2,3-c,d)pyrene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				100%	60%	130%
Dibenzo(a,h)anthracene	1	559211	<0.02	<0.02	0.0%	< 0.02	101%	80%	130%				93%	60%	130%
Benzo(g,h,i)perylene	1	559211	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				105%	60%	130%
Nitrobenzene - d5	1	559211	83	128	43.0%	<	98%	80%	120%				88%	50%	130%
2-Fluorobiphenyl	1	559211	91	113	22.0%	<	101%	80%	120%				100%	50%	130%
P-Terphenyl - d14	1	559211	87	108	22.0%	<	100%	80%	120%				92%	60%	130%

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

C10 - C16 (F2)	849	3013650	<10	<10	NA	< 10	103%	80%	120%	103%	80%	120%	95%	60%	140%
C16 - C34 (F3)	849	3013650	<10	<10	NA	< 10	103%	80%	120%	100%	80%	120%	96%	60%	140%
C34 - C50 (F4)	849	3013650	<10	<10	NA	< 10	103%	80%	120%	99%	80%	120%	99%	60%	140%

Petroleum Hydrocarbons in Soil

Methyl tert-butyl ether (MTBE)	1	3008754	<0.1	<0.1	0.0%	< 0.1	104%	80%	120%				89%	70%	130%
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Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559248
 ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Benzene	1	3008754	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			95%	70%	130%		
Toluene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	70%	130%		
Ethylbenzene	1	3008754	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			84%	70%	130%		
m&p-Xylene	1	3008754	<0.05	<0.05	0.0%	< 0.05	106%	80%	120%			79%	70%	130%		
o-Xylene	1	3008754	<0.05	<0.05	0.0%	< 0.05	107%	80%	120%			82%	70%	130%		
Styrene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			85%	70%	130%		
VPH	1	3008754	<10	<10	0.0%	< 10										
Naphthalene	1	3008754	<0.01	<0.01	0.0%	< 0.01	102%	80%	120%			105%	50%	130%		
2-Methylnaphthalene	1	3008754	<0.01	<0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%		
1-Methylnaphthalene	1	3008754	<0.01	<0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%		
Acenaphthylene	1	3008754	<0.01	<0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%		
Acenaphthene	1	3008754	<0.01	0.01	0.0%	< 0.01	105%	80%	120%			90%	50%	130%		
Fluorene	1	3008754	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%		
Phenanthrene	1	3008754	<0.02	<0.02	0.0%	< 0.02	98%	80%	120%			92%	60%	130%		
Anthracene	1	3008754	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%		
Fluoranthene	1	3008754	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%		
Pyrene	1	3008754	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			98%	60%	130%		
Benzo(a)anthracene	1	3008754	<0.02	<0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%		
Chrysene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%		
Benzo(b)fluoranthene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%		
Benzo(k)fluoranthene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%		
Benzo(a)pyrene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%		
Indeno(1,2,3-c,d)pyrene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%		
Dibenzo(a,h)anthracene	1	3008754	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%		
Benzo(g,h,i)perylene	1	3008754	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%		
Nitrobenzene - d5	1	3008754	75	83	10.0%	<	100%	80%	120%			100%	50%	130%		
2-Fluorobiphenyl	1	3008754	94	89	5.0%	<	101%	80%	120%			91%	50%	130%		
P-Terphenyl - d14	1	3008754	89	82	8.0%	<	98%	80%	120%			88%	50%	130%		
LEPH C10-C19	1	3008754	113	128	12.0%	< 25										
HEPH C19-C32	1	3008754	12800	12500	2.0%	< 25										
Bromofluorobenzene	1	3008754	111	103	7.0%	<	105%	70%	130%			113%	70%	130%		
Toluene - d8	1	3008754	121	125	3.0%	<	93%	70%	130%			114%	70%	130%		
EPH C10-C19	1	3008754	113	128	12.0%	<	91%	90%	110%	70%	130%	88%	70%	130%		
EPH C19-C32	1	3008754	12800	12500	2.0%	<	97%	90%	110%	70%	130%	88%	70%	130%		

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER
Phenolics, Total	INOR-181-6014, LAB-181-4013	Modified from EPA 9013A and BC MOE Lab Manual	CONTINUOUS FLOW ANALYZER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559248

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
EPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
EPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID



Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Ph.: 778.452.4000 • Fax: 778.452.7074

Chain of Custody Record

Report To:

Company: Same as previous
Contact: _____
Address: _____
Phone: _____
LSD: _____
Client Project #: _____

Report Information

1. Name: Same as previous
Email: _____
2. Name: _____
Email: _____

Regulatory Requirements (Check):

- BC CSR - Soil BC CSR - Water
- Agricultural Drinking Water
- Industrial Aquatic Life
- Urban/Park Irrigation
- Commercial Livestock
- CCME
- Drinking Water Industrial
- Residential/Park Drinking Water
- Commercial FWAL

Invoice To:

Same as above Yes No

Company: _____
Contact: _____
Address: _____
Phone: _____
PO/AFE #: _____

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
- Rush TAT 24 to 48 hours
- 48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: _____
AGAT Job Number: 11V559248
Notes: DEC 14 08:03

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	VOCs	BC CSR Schedule II	Routine Potability	CSR and CCME Metals	Phenols	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 4 YEAR 60 days
300874	MV-118K-15M-1	Soil	13/12/2011													
735	MV-118K-15M-2															
736	MV-118K-15M-3															
740	MV-118K-15M-4															
743	MV-118K-15M-5															
750	MV-DUP3															
753	MV-118K-07M-1															
754	MV-118K-07M-2															
755	MV-118K-07M-3															
756	MV-118K-07M-4															
757	MV-118K-07M-5															
758	MV-118K-07M-6															
Samples Relinquished by (print name & sign): <u>Mona</u>				Date: <u>13/12/2011</u>	Samples Received by (Print name & sign): <u>S. Cordus</u>											
Samples Relinquished by (print name & sign): <u>Mona</u>				Date: <u>13/12/2011</u>	Samples Received by (Print name & sign): <u>S. Cordus</u>											
Samples Relinquished by (print name & sign): _____				Date: _____	Samples Received by (Print name & sign): _____											

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

Date

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Date

Date

Date

Date

Date

Date

Date

Date

Date

Date



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: same as previous
 Contact: previous
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only
 Arrival Temperature: _____
 AGAT Job Number: 11V559248
 Notes: DEC 14 AMB:03

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/AFE #: _____

Comments - Site/Sample Info.
 Sample Containment

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR
3058759	MV-118M-14M-1	SOIL	13/12/2011	XX	XX							60 days
1761	MV-118M-14M-2											
1762	MV-118M-14M-3											
1764	MV-118M-14M-4											
1766	MV-118M-14M-5											

Samples Relinquished by (print name & sign): Armando Salazar Date: 13/12/2011
Samples Relinquished by (print name & sign): S. Courts Date: 14-DEC-11 @ 8:02 AM
Samples Relinquished by (print name & sign): _____ Date: _____

Samples Received by (Print Name & sign): _____ Date: _____
Samples Received by (Print Name & sign): _____ Date: _____
Samples Received by (Print Name & sign): _____ Date: _____

Client Information
 Client: _____
 Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT

Page 3 of 3
 NO: 000290



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY Work Order # _____

RECEIVING BASICS:

*Complete CoC as well where required
 Date and Time: 14-DEC-11 @ 8:02AM
 Courier: _____
 Received by: S. COUZENS
 Relinquished by: Amarda Salway
 Branch Received From: _____
 Company: Franz Env
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg
 CoC Numbers: 000288, 289, 290

SAMPLE QUANTITIES:

Coolers: 2 Bottles/Jars: 34 Bags: 6

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 13-DEC-11
 Microbiology: Test: _____
 Hydrocarbons: Test: LEPH/HEPH
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: 20-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 4+4+3 = 4 °C (2) 0+0+1 = 0 °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) _____
- 2) _____
- 3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM Work order # 11V559248

RECEIVING BASICS:

*Complete CoC as well where required

Date and Time: DEC. 15, 2011 / 8:16

Courier: DHL

Received by: JAN

Relinquished by: _____

Company: _____

Consultant: FRANZ ENVIRONMENTAL

Client left without count verified: _____

COC INFORMATION:

Received Yes No Emailed to PM

Completed in full: Yes No If NO, why: _____

TURNAROUND TIME: REGULAR

COC Numbers: 000280 with 11V559248

SAMPLE QUANTITIES:

Coolers: 1 Bottles/Jars: 5 Bags: 0

TIME SENSITIVE ISSUES:

Earliest Date Sampled: DEC. 13, 2011

Microbiology: Test: _____

Hydrocarbons: Test: _____

Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No

Expiry: _____

Expiry: _____

SPECIALTY ISSUES:

Legal Samples: Yes No

International Samples: Yes No

**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____

Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.

Correct bottles used for testing: Yes No
If No, explain: _____

Correct amount of sample for analysis: Yes No
If No, explain: _____

Are all samples labeled correctly: Yes No
If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 3 + 3 = 3 °C (2) _____ + _____ + _____ = _____ °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C

*Jars used when available

JARS w/ ice

Additional integrity issues (note here and on CoC next to the sample ID):

1) _____

2) _____

3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No

Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559640

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 21, 2011

PAGES (INCLUDING COVER): 21

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1	MV-11BH-11M-4	BV-11BH-09M-1	BV-11BH-09M-5
				3011798	3011800	3011803	3011805	3011812	3011820	3011831	3011841
Antimony	µg/g	40	0.05	0.58	0.53	1.17	0.56	1.36	0.90	2.05	0.49
Arsenic	µg/g	15	0.1	3.4	3.8	5.7	3.9	5.1	11.6	4.5	6.2
Barium	µg/g	400	0.5	171	157	74.3	182	61.4	160	174	93.3
Beryllium	µg/g	8	0.02	0.58	0.44	0.17	0.61	0.14	0.64	0.26	0.32
Boron (Hot Water Soluble)	µg/g		0.1	0.1	0.1	2.5	0.1	2.2	0.3	1.5	0.8
Cadmium	µg/g		0.01	0.19	0.16	1.05	0.26	0.48	0.37	0.25	0.27
Chromium	µg/g	60	1	52	41	26	51	30	41	38	34
Cobalt	µg/g	300	0.1	7.5	7.4	3.0	8.6	4.7	10.4	7.5	11.6
Copper	µg/g		0.2	27.7	18.9	27.1	29.9	27.7	47.5	31.1	29.8
Lead	µg/g		0.05	11.7	11.0	107	11.8	46.2	10.3	18.1	7.47
Mercury	µg/g		0.01	0.08	0.06	0.14	0.08	0.06	0.08	0.03	0.06
Molybdenum	µg/g	40	0.05	0.52	0.57	2.55	0.64	3.52	4.70	2.14	0.69
Nickel	µg/g	500	0.5	30.5	27.2	12.5	30.5	18.7	40.9	29.0	38.6
Selenium	µg/g	10	0.1	0.8	0.6	0.5	0.8	0.5	1.4	0.3	0.6
Silver	µg/g	40	0.05	0.10	0.07	0.10	0.10	0.09	0.16	0.08	0.09
Thallium	µg/g		0.05	0.14	0.17	0.07	0.24	<0.05	0.15	<0.05	0.08
Tin	µg/g	300	0.05	1.00	1.52	2.89	0.89	1.33	0.67	3.92	1.70
Uranium	µg/g	200	0.05	1.31	1.27	0.55	1.88	0.74	2.46	0.84	0.67
Vanadium	µg/g		1	61	49	26	61	32	62	40	47
Zinc	µg/g		1	53	58	446	57	108	76	80	64
pH 1:2	pH units		0.1	6.0	6.0	6.0	6.1	6.7	6.6	7.2	7.3

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5
				3011850	3011858	3011859
Antimony	µg/g	40	0.05	0.31	0.56	0.64
Arsenic	µg/g	15	0.1	3.6	17.2	17.5
Barium	µg/g	400	0.5	57.9	87.7	86.9
Beryllium	µg/g	8	0.02	0.21	0.34	0.31
Boron (Hot Water Soluble)	µg/g		0.1	0.1	0.4	0.4
Cadmium	µg/g		0.01	0.12	0.31	0.31
Chromium	µg/g	60	1	25	43	40
Cobalt	µg/g	300	0.1	7.2	11.4	11.0
Copper	µg/g		0.2	18.0	30.7	30.3
Lead	µg/g		0.05	3.30	7.65	7.39
Mercury	µg/g		0.01	0.02	0.06	0.06
Molybdenum	µg/g	40	0.05	0.72	0.81	0.80
Nickel	µg/g	500	0.5	30.1	37.8	37.5
Selenium	µg/g	10	0.1	0.2	0.6	0.6
Silver	µg/g	40	0.05	<0.05	0.10	0.10
Thallium	µg/g		0.05	<0.05	0.09	0.09
Tin	µg/g	300	0.05	0.28	0.70	0.93
Uranium	µg/g	200	0.05	0.38	0.70	0.69
Vanadium	µg/g		1	36	44	43
Zinc	µg/g		1	39	66	64
pH 1:2	pH units		0.1	7.5	7.6	7.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3011798-3011859 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 14, 2011				DATE RECEIVED: Dec 15, 2011				DATE REPORTED: Dec 21, 2011				SAMPLE TYPE: Soil			
Parameter	Unit	G / S	RDL	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1	MV-11BH-11M-4	MV-Dup4	BV-11BH-01M-2				
				3011798	3011800	3011803	3011805	3011812	3011820	3011830	3011850				
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
Toluene	mg/kg	0.37	0.05	<0.05	<0.05	0.13	<0.05	0.10	<0.05	<0.05	<0.05				
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10	<10	<10				
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10				
C10 - C16 (F2)	mg/kg	260	10	<10	<10	99	<10	20	13	18	<10				
C16 - C34 (F3)	mg/kg	1700	10	139	244	1490	171	1150	412	1030	<10				
C34 - C50 (F4)	mg/kg	3300	10	62	115	1060	240	818	306	760	<10				
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Moisture Content	%		1	42	45	78	41	31	82	26	8				
Surrogate	Unit	Acceptable Limits													
Toluene-d8 (BTEX)	%		50-150	102	101	101	104	104	100	101	103				
Ethylbenzene-d10 (BTEX)	%		50-150	108	96	84	110	113	84	104	127				
o-Terphenyl (F2-F4)	%		50-150	97	100	99	94	99	97	98	98				
BV-11BH-01M-5															
Parameter	Unit	G / S	RDL	3011858											
Benzene	mg/kg	0.030	0.005	<0.005											
Toluene	mg/kg	0.37	0.05	<0.05											
Ethylbenzene	mg/kg	0.082	0.01	<0.01											
Xylenes	mg/kg	11	0.05	<0.05											
C6 - C10 (F1)	mg/kg	320	10	<10											
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10											
C10 - C16 (F2)	mg/kg	260	10	<10											
C16 - C34 (F3)	mg/kg	1700	10	97											
C34 - C50 (F4)	mg/kg	3300	10	39											
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A											
Moisture Content	%		1	29											
Surrogate	Unit	Acceptable Limits													
Toluene-d8 (BTEX)	%		50-150	102											
Ethylbenzene-d10 (BTEX)	%		50-150	110											
o-Terphenyl (F2-F4)	%		50-150	96											

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3011798-3011858

Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-09M-1 BV-11BH-09M-5	
				3011831	3011841
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	1700	10	494	12
C34 - C50 (F4)	mg/kg	3300	10	344	<10
Moisture Content	%		1	14	29
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		98	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3011831-3011841 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-13M-2		MV-11BH-13M-3		MV-11BH-12M-1		MV-11BH-12M-2		MV-11BH-11M-1	
				3011798	3011800	RDL	3011803	RDL	3011805	RDL	3011812		
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	0.3	<0.3	0.2	<0.2	0.1	<0.1		
Benzene	µg/g	0.04	0.02	<0.02	<0.02	0.06	<0.06	0.04	<0.04	0.02	<0.02		
Toluene	µg/g	2.5	0.05	<0.05	<0.05	0.2	0.5	0.1	<0.1	0.05	0.09		
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05		
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05		
o-Xylene	µg/g	20	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05		
Styrene	µg/g	50	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05		
VPH	µg/g	200	10	<10	22	30	67	20	<20	10	27		
Naphthalene	µg/g	50	0.01	0.02	0.01	0.02	0.89	0.01	<0.01	0.01	0.32		
2-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.02	0.19	0.01	<0.01	0.01	0.19		
1-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.02	0.12	0.01	<0.01	0.01	0.12		
Acenaphthylene	µg/g		0.01	<0.01	<0.01	0.02	0.13	0.01	<0.01	0.01	0.04		
Acenaphthene	µg/g		0.01	<0.01	<0.01	0.02	0.02	0.01	<0.01	0.01	0.23		
Fluorene	µg/g		0.02	<0.02	<0.02	0.04	0.06	0.02	<0.02	0.02	0.31		
Phenanthrene	µg/g	50	0.02	0.04	<0.02	0.04	0.52	0.02	<0.02	0.02	1.20		
Anthracene	µg/g		0.02	<0.02	<0.02	0.04	0.07	0.02	<0.02	0.02	0.30		
Fluoranthene	µg/g		0.05	<0.05	<0.05	0.1	0.5	0.05	<0.05	0.05	1.80		
Pyrene	µg/g	100	0.02	0.02	<0.02	0.04	0.50	0.02	<0.02	0.02	1.60		
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	0.04	0.10	0.02	<0.02	0.02	0.80		
Chrysene	µg/g		0.05	<0.05	<0.05	0.1	0.1	0.05	<0.05	0.05	0.68		
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.04	0.16	0.02	<0.02	0.02	0.58		
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.04	0.05	0.02	<0.02	0.02	0.29		
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	0.1	0.1	0.05	<0.05	0.05	0.68		
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	0.04	<0.04	0.02	<0.02	0.02	0.31		
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	0.04	<0.04	0.02	<0.02	0.02	0.08		
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	0.1	0.1	0.05	<0.05	0.05	0.31		
LEPH C10-C19	µg/g	2000	25	<25	<25	25	180	25	26	25	68		
HEPH C19-C32	µg/g	5000	25	203	201	25	1100	25	250	25	1100		

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-13M-2 MV-11BH-13M-3		MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1
			3011798	3011800	3011803	3011805	3011812
Nitrobenzene - d5	%	50-130	117	108	114	110	100
2-Fluorobiphenyl	%	50-130	85	91	86	91	96
P-Terphenyl - d14	%	50-130	119	112	105	96	120
Bromofluorobenzene	%	70-130	94.9	94.6	88.8	96.3	99.6
Toluene - d8	%	70-130	109	102	111	117	120

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	MV-11BH-11M-4		MV-Dup4		BV-11BH-09M-1		BV-11BH-09M-5		BV-11BH-01M-2
			RDL	3011820	RDL	3011830	RDL	3011831	3011841	RDL	3011850
Methyl tert-butyl ether (MTBE)	µg/g	700	0.3	<0.3	0.2	<0.2	0.3			0.1	<0.1
Benzene	µg/g	0.04	0.06	<0.06	0.04	<0.04	0.06			0.02	<0.02
Toluene	µg/g	2.5	0.2	<0.2	0.1	0.1	0.2			0.05	<0.05
Ethylbenzene	µg/g	7	0.2	<0.2	0.1	<0.1	0.2			0.05	<0.05
m&p-Xylene	µg/g	20	0.2	<0.2	0.1	<0.1	0.2			0.05	<0.05
o-Xylene	µg/g	20	0.2	<0.2	0.1	<0.1	0.2			0.05	<0.05
Styrene	µg/g	50	0.2	<0.2	0.1	<0.1	0.2			0.05	<0.05
VPH	µg/g	200	30	<30	20	<20	30			10	<10
Naphthalene	µg/g	50	0.03	<0.03	0.02	0.37	0.01	0.09	0.01	0.01	<0.01
2-Methylnaphthalene	µg/g		0.03	<0.03	0.02	0.21	0.01	0.04	<0.01	0.01	<0.01
1-Methylnaphthalene	µg/g		0.03	<0.03	0.02	0.13	0.01	0.02	<0.01	0.01	<0.01
Acenaphthylene	µg/g		0.03	<0.03	0.02	0.08	0.01	0.01	<0.01	0.01	<0.01
Acenaphthene	µg/g		0.03	<0.03	0.02	0.30	0.01	<0.01	<0.01	0.01	<0.01
Fluorene	µg/g		0.06	<0.06	0.04	0.44	0.02	<0.02	<0.02	0.02	<0.02
Phenanthrene	µg/g	50	0.06	<0.06	0.04	1.90	0.02	0.02	0.03	0.02	<0.02
Anthracene	µg/g		0.06	<0.06	0.04	0.48	0.02	<0.02	<0.02	0.02	<0.02
Fluoranthene	µg/g		0.2	<0.2	0.1	2.3	0.05	<0.05	<0.05	0.05	<0.05
Pyrene	µg/g	100	0.06	<0.06	0.04	2.20	0.02	0.03	0.03	0.02	<0.02
Benzo(a)anthracene	µg/g	10	0.06	<0.06	0.04	1.00	0.02	<0.02	<0.02	0.02	<0.02
Chrysene	µg/g		0.2	<0.2	0.1	1.0	0.05	<0.05	<0.05	0.05	<0.05
Benzo(b)fluoranthene	µg/g	10	0.06	<0.06	0.04	0.88	0.02	<0.02	<0.02	0.02	<0.02
Benzo(k)fluoranthene	µg/g	10	0.06	<0.06	0.04	0.35	0.02	<0.02	<0.02	0.02	<0.02
Benzo(a)pyrene	µg/g		0.2	<0.2	0.1	0.9	0.05	<0.05	<0.05	0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.06	<0.06	0.04	0.38	0.02	<0.02	<0.02	0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.06	<0.06	0.04	0.12	0.02	<0.02	<0.02	0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.2	<0.2	0.1	0.3	0.05	<0.05	<0.05	0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<80	25	120	25	41	<25	25	<25
HEPH C19-C32	µg/g	5000	25	260	25	2600	25	600	60	25	<25

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-11M-4	MV-Dup4	BV-11BH-09M-1	BV-11BH-09M-5	BV-11BH-01M-2
			3011820	3011830	3011831	3011841	3011850
Nitrobenzene - d5	%	50-130	100	110	110	97	120
2-Fluorobiphenyl	%	50-130	95	89	90	93	120
P-Terphenyl - d14	%	50-130	100	170	70	110	100
Bromofluorobenzene	%	70-130	97.5	99.1			95.6
Toluene - d8	%	70-130	117	111			113

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ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	BV-11BH-01M-5		
		G / S	RDL	3011858
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05
Styrene	µg/g	50	0.05	<0.05
VPH	µg/g	200	10	<10
Naphthalene	µg/g	50	0.01	0.03
2-Methylnaphthalene	µg/g		0.01	<0.01
1-Methylnaphthalene	µg/g		0.01	<0.01
Acenaphthylene	µg/g		0.01	0.01
Acenaphthene	µg/g		0.01	0.01
Fluorene	µg/g		0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.04
Anthracene	µg/g		0.02	<0.02
Fluoranthene	µg/g		0.05	<0.05
Pyrene	µg/g	100	0.02	0.04
Benzo(a)anthracene	µg/g	10	0.02	<0.02
Chrysene	µg/g		0.05	<0.05
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02
Benzo(a)pyrene	µg/g		0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<25
HEPH C19-C32	µg/g	5000	25	79

Certified By:



Certificate of Analysis

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	BV-11BH-01M-5	
		Acceptable Limits	3011858
Nitrobenzene - d5	%	50-130	130
2-Fluorobiphenyl	%	50-130	100
P-Terphenyl - d14	%	50-130	110
Bromofluorobenzene	%	70-130	92.7
Toluene - d8	%	70-130	97.8

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

- 3011798-3011800 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
- 3011803-3011805 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits elevated due to high moisture content.
- 3011812 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
- 3011820-3011830 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits elevated due to high moisture content.
- 3011831-3011841 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.
- 3011850-3011858 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1	MV-11BH-11M-4	BV-11BH-09M-1	BV-11BH-09M-5
				3011798	3011800	3011803	3011805	3011812	3011820	3011831	3011841
Phenol	mg/kg		0.002	<0.002	0.014	0.097	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	0.474	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	0.034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits									
2-Fluorophenol	%	50-150		116	115	115	110	122	108	110	111
2,4,6-Tribromophenol	%	50-150		114	115	111	109	114	108	109	110

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5
				3011850	3011858	3011859
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.003	<0.003	<0.003	<0.003
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits				
2-Fluorophenol	%	50-150		121	116	111
2,4,6-Tribromophenol	%	50-150		119	116	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
3011798-3011859 Results relate only to the items tested.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559640
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 21, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony	20111	3011798	0.58	0.58	0.0%	< 0.05	99%	70%	130%	99%	90%	110%	99%	80%	120%	
Arsenic	20111	3011798	3.4	3.5	3.0%	< 0.1	106%	70%	130%	98%	90%	110%	98%	80%	120%	
Barium	20111	3011798	171	170	1.0%	< 0.5	89%	70%	130%	99%	90%	110%	99%	80%	120%	
Beryllium	20111	3011798	0.58	0.58	0.0%	< 0.02	97%	70%	130%	98%	90%	110%	98%	80%	120%	
Boron (Hot Water Soluble)	20111	3011798	0.1	0.1	0.0%	< 0.1				99%	90%	110%	106%	80%	120%	
Cadmium	20111	3011798	0.19	0.18	5.0%	< 0.01				98%	90%	110%	98%	80%	120%	
Chromium	20111	3011798	52	52	0.0%	< 1	89%	70%	130%	93%	90%	110%	93%	80%	120%	
Cobalt	20111	3011798	7.5	7.6	1.0%	< 0.1	85%	70%	130%	94%	90%	110%	94%	80%	120%	
Copper	20111	3011798	27.7	28.4	2.0%	< 0.2	83%	70%	130%	95%	90%	110%	95%	80%	120%	
Lead	20111	3011798	11.7	11.4	3.0%	< 0.05	89%	70%	130%	102%	90%	110%	102%	80%	120%	
Mercury	20111	3011798	0.08	0.08	0.0%	< 0.01	99%	70%	130%	96%	90%	110%	98%	80%	120%	
Molybdenum	20111	3011798	0.52	0.53	2.0%	< 0.05	97%	70%	130%	98%	90%	110%	98%	80%	120%	
Nickel	20111	3011798	30.5	30.5	0.0%	< 0.5	84%	70%	130%	94%	90%	110%	94%	80%	120%	
Selenium	20111	3011798	0.8	0.8	0.0%	< 0.1				100%	90%	110%	100%	80%	120%	
Silver	20111	3011798	0.10	0.10	0.0%	< 0.05				99%	90%	110%	99%	80%	120%	
Thallium	20111	3011798	0.14	0.14	0.0%	< 0.05				104%	90%	110%	104%	80%	120%	
Tin	20111	3011798	1.00	0.85	16.2%	< 0.05				97%	90%	110%	99%	80%	120%	
Uranium	20111	3011798	1.35	1.31	3.0%	< 0.05		0%	0%	101%	90%	110%	100%	80%	120%	
Vanadium	20111	3011798	61	62	2.0%	< 1	90%	70%	130%	95%	90%	110%	95%	80%	120%	
Zinc	20111	3011798	53	54	2.0%	< 1	91%	70%	130%	104%	90%	110%	104%	80%	120%	
pH 1:2	20111	3011850	7.5	7.5	0.0%	< 0.1				101%	95%	105%	96%	90%	110%	

Certified By: 

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis

RPT Date: Dec 21, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

Petroleum Hydrocarbons in Soil

Methyl tert-butyl ether (MTBE)	1	3011798	<0.1	<0.1	0.0%	< 0.1	103%	80%	120%				86%	70%	130%
Benzene	1	3011798	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%				91%	70%	130%
Toluene	1	3011798	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				88%	70%	130%
Ethylbenzene	1	3011798	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				81%	70%	130%
m&p-Xylene	1	3011798	<0.05	<0.05	0.0%	< 0.05	106%	80%	120%				76%	70%	130%
o-Xylene	1	3011798	<0.05	<0.05	0.0%	< 0.05	106%	80%	120%				76%	70%	130%
Styrene	1	3011798	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				81%	70%	130%
Naphthalene	1	3011798	NA	NA	0.0%	< 0.01	110%	80%	120%				125%	50%	130%
2-Methylnaphthalene	1	3011798	0.01	0.01	0.0%	< 0.01	100%	80%	120%				102%	50%	130%
1-Methylnaphthalene	1	3011798	0.01	0.01	0.0%	< 0.01	103%	80%	120%				106%	50%	130%
Acenaphthylene	1	3011798	<0.01	<0.01	0.0%	< 0.01	93%	80%	120%				123%	50%	130%
Acenaphthene	1	3011798	<0.01	<0.01	0.0%	< 0.01	107%	80%	120%				122%	50%	130%
Fluorene	1	3011798	<0.02	<0.02	0.0%	< 0.02	96%	80%	120%				116%	50%	130%
Phenanthrene	1	3011798	NA	NA	0.0%	< 0.02	117%	80%	120%				116%	60%	130%
Anthracene	1	3011798	<0.02	<0.02	0.0%	< 0.02	110%	80%	120%				93%	60%	130%
Fluoranthene	1	3011798	<0.05	<0.05	0.0%	< 0.05	105%	80%	120%				117%	60%	130%
Pyrene	1	3011798	0.02	0.02	0.0%	< 0.02	106%	80%	120%				119%	60%	130%
Benzo(a)anthracene	1	3011798	<0.02	<0.02	0.0%	< 0.02	97%	80%	120%				106%	60%	130%
Chrysene	1	3011798	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	60%	130%
Benzo(b)fluoranthene	1	3011798	<0.02	<0.02	0.0%	< 0.02	115%	80%	120%				124%	60%	130%
Benzo(k)fluoranthene	1	3011798	<0.02	<0.02	0.0%	< 0.02	112%	80%	120%				122%	60%	130%
Benzo(a)pyrene	1	3011798	<0.05	<0.05	0.0%	< 0.05	107%	80%	120%				118%	60%	130%
Indeno(1,2,3-c,d)pyrene	1	3011798	<0.02	<0.02	0.0%	< 0.02	108%	80%	120%				110%	60%	130%
Dibenzo(a,h)anthracene	1	3011798	<0.02	<0.02	0.0%	< 0.02	112%	80%	120%				108%	60%	130%
Benzo(g,h,i)perylene	1	3011798	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				100%	60%	130%
Nitrobenzene - d5	1	3011798	117	102	14.0%	<	102%	80%	120%				122%	50%	130%
2-Fluorobiphenyl	1	3011798	85	90	6.0%	<	98%	80%	120%				105%	50%	130%
P-Terphenyl - d14	1	3011798	119	112	6.0%	<	103%	80%	120%				103%	50%	130%
LEPH C10-C19	1	3010601	1190	861	32.1%	< 25									
HEPH C19-C32	1	3010601	324	236	31.4%	< 25									
Bromofluorobenzene	1	3011798	94.9	91.6	4.0%	<	111%	70%	130%				111%	70%	130%
Toluene - d8	1	3011798	109	112	3.0%	<	110%	70%	130%				113%	70%	130%

Phenolic Compounds in Soil

Phenol	126	3011798	<0.002	<0.002	NA	< 0.002	86%	80%	120%	98%	80%	120%	97%	80%	120%
4-Nitrophenol	126	3011798	<0.005	<0.005	NA	< 0.005	85%	80%	120%	95%	80%	120%	98%	80%	120%
m&p-Cresol (3&4-methylphenol)	126	3011798	<0.005	<0.005	NA	< 0.005				98%	80%	120%	98%	80%	120%
o-Cresol (2-methylphenol)	126	3011798	<0.005	<0.005	NA	< 0.005				96%	80%	120%	97%	80%	120%
2-Chlorophenol	126	3011798	<0.002	<0.002	NA	< 0.002				98%	80%	120%	100%	80%	120%

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640


PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 21, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
2,4-Dinitrophenol	126	3011798	<0.005	<0.005	NA	< 0.005	92%	80%	120%	98%	80%	120%	104%	80%	120%	
2-Nitrophenol	126	3011798	<0.005	<0.005	NA	< 0.005	98%	80%	120%	110%	80%	120%	120%	80%	120%	
2,4-Dimethylphenol	126	3011798	<0.005	<0.005	NA	< 0.005	85%	80%	120%	102%	80%	120%	104%	80%	120%	
2,6-Dichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				97%	80%	120%	96%	80%	120%	
4-Chloro-3-methylphenol	126	3011798	<0.005	<0.005	NA	< 0.005	84%	80%	120%	98%	80%	120%	110%	80%	120%	
2,4-Dichlorophenol	126	3011798	<0.002	<0.002	NA	< 0.003	87%	80%	120%	98%	80%	120%	102%	80%	120%	
4,6-Dinitro-2-methylphenol	126	3011798	<0.005	<0.005	NA	< 0.005	95%	80%	120%	105%	80%	120%	115%	80%	120%	
2,3,6-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				98%	80%	120%	100%	80%	120%	
2,3,4-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				99%	80%	120%	101%	80%	120%	
2,4,6-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005	87%	80%	120%	100%	80%	120%	106%	80%	120%	
2,4,5-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				99%	80%	120%	101%	80%	120%	
2,3,5-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				100%	80%	120%	101%	80%	120%	
3,4,5-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				96%	80%	120%	95%	80%	120%	
2,3,4,6-Tetrachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				103%	80%	120%	106%	80%	120%	
2,3,5,6-Tetrachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				103%	80%	120%	104%	80%	120%	
2,3,4,5-Tetrachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				103%	80%	120%	105%	80%	120%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	126	3011798	<0.005	<0.005	NA	< 0.005				107%	80%	120%	85%	80%	120%	
Pentachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005	92%	80%	120%	104%	80%	120%	94%	80%	120%	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)																
Benzene	332	3011850	<0.005	<0.005	NA	< 0.005	83%	80%	120%	83%	80%	120%	87%	60%	140%	
Toluene	332	3011850	<0.05	<0.05	NA	< 0.05	84%	80%	120%	90%	80%	120%	92%	60%	140%	
Ethylbenzene	332	3011850	<0.01	<0.01	NA	< 0.01	86%	80%	120%	103%	80%	120%	101%	60%	140%	
Xylenes	332	3011850	<0.05	<0.05	NA	< 0.05	85%	80%	120%	99%	80%	120%	98%	60%	140%	
C6 - C10 (F1)	332	3011850	<10	<10	NA	< 10	82%	80%	120%	113%	80%	120%	126%	60%	140%	
C10 - C16 (F2)	850	3011850	<10	<10	NA	< 10	102%	80%	120%	95%	80%	120%	100%	60%	140%	
C16 - C34 (F3)	850	3011850	<10	<10	NA	< 10	102%	80%	120%	94%	80%	120%	93%	60%	140%	
C34 - C50 (F4)	850	3011850	<10	<10	NA	< 10	102%	80%	120%	92%	80%	120%	94%	60%	140%	

Certified By:





Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatiabs.com

Chain of Custody Record

Ph.: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: Franz Environmental
 Contact: Amanda Salway
 Address: 108-1080 Mountainview St.
Vancouver, BC V6B 2T4
 Phone: 604 652-9747 Fax: 604 652-9742
 LSD: _____
 Client Project #: 2090-1103

Report Information
 1. Name: Amanda Salway
 Email: ASalway@franzbc.com
 2. Name: Viviane Dubois-Cote
 Email: vdCote@franzbc.com

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: 11V5591640

Notes: DEC 15 AM 8:03

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/A/E #: _____

BC CSR BTEX/VPH	BC CSR LPH/HEPH	BC CSR Metals + CCME Metals	VOCs	BC CSR Schedule II	Routine Potability	CCME F2-P4	CCME F1	PAM	Non-Chlorinated	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	3			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	3			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	4			X
X	X	X	X	X	X	X	X	X	X	4			X

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment
3011783	MV-118K-13M-1	SOIL	14/12/2011	
798	MV-118K-13M-2			
800	MV-118K-13M-3			
802	MV-118K-13M-4			
803	MV-118M-12M-1			
805	MV-118M-12M-2			
807	MV-118M-12M-3			
810	MV-118M-12M-4			
812	MV-118M-11M-1			
816	MV-118M-11M-2			
817	MV-118M-11M-3			
V820	MV-118M-11M-4			

Samples Relinquished by (print name & sign): S. Colwell Date: 14/12/2011
 Samples Relinquished by (print name & sign): _____ Date: _____
 Samples Relinquished by (print name & sign): _____ Date: _____



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 - Fax: 778.452.7074

Report To:
 Company: same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):

BC CSR - Soil **BC CSR - Water**

Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock

CCME

Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: _____

Date Required: _____
 Please contact laboratory if Rush is required

Notes: DEC 15 AMB:04

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Invoice To: Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/AFE #: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and CCME metals	VOCs	BC CSR Schedule II	Routine Potability	CMER 1-PM	CMER 2-PM	CMER 3-PM	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
830	MV-DUP24	SOIL	14/12/2011		X	X					X	X	X	2	N		
831	BV-11BK-09M-1				X	X					X	X	X	3	N		
833	BV-11BK-09M-2				X	X					X	X	X	3	N		
834	BV-11BK-09M-3				X	X					X	X	X	3	N		
838	BV-11BK-09M-4				X	X					X	X	X	3	N		
841	BV-11BK-09M-5				X	X					X	X	X	3	N		
842	BV-11BK-09M-6				X	X					X	X	X	3	N		
845	BV-11BK-01M-1				X	X					X	X	X	4	N		
850	BV-11BK-01M-2				X	X					X	X	X	4	N		
851	BV-11BK-01M-3				X	X					X	X	X	4	N		
855	BV-11BK-01M-4				X	X					X	X	X	4	N		
858	BV-11BK-01M-5				X	X					X	X	X	4	N		

Samples Relinquished by (print name & sign): Amogwa Date: 14/12/2011

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____

Pink Copy - Client Page 2 of 3
 Yellow Copy - AGAT
 White Copy - AGAT

NO: 000292



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11V559640

RECEIVING BASICS:
 *Complete CoC as well where required
 Date and Time: 15-DEC-11 @ 8:03AM
 Courier: _____
 Received by: S. Cozens
 Relinquished by: In drop off Shed
 Branch Received From: _____
 Company: Franz Env
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:
 Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg TAT
 COC Numbers: 000291, 292, 293

SAMPLE QUANTITIES:
 Coolers: _____ Bottles/Jars: _____ Bags: _____

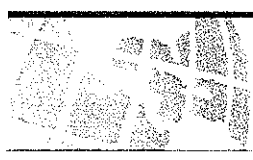
TIME SENSITIVE ISSUES:
 Earliest Date Sampled: 14-DEC-11 ALREADY EXCEEDED? Yes No
 Microbiology: Test: _____ Expiry: _____
 Hydrocarbons: Test: BTEX Expiry: 20-DEC-11
 Samples are received >5 days after sampling: Yes No

SPECIALTY ISSUES:
 Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:
 *Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:
 3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)
 (1) 3 + 3 + 2 = 3 °C (2) 2 + 2 + 4 = 3 °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available
 Additional integrity issues (note here and on CoC next to the sample ID):
 1) _____
 2) _____
 3) _____
 Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM Work order # 11V559640

RECEIVING BASICS:
 *Complete CoC as well where required
 Date and Time: Dec. 16, 2011 / 8:18 AM
 Courier: DAL
 Received by: JAN
 Relinquished by: _____
 Company: FRANZ ENVIRONMENTAL
 Consultant: _____
 Client left without count verified: _____

COC INFORMATION:
 Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: REGULAR
 COC Numbers: 000291 WOH# 11V559640

SAMPLE QUANTITIES:
 Coolers: 1 Bottles/Jars: 22 Bags: 0

TIME SENSITIVE ISSUES:
 Earliest Date Sampled: Dec. 14, 2011
 Microbiology: Test: —
 Hydrocarbons: Test: —
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: —
 Expiry: —

SPECIALTY ISSUES:
 Legal Samples: Yes No
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:
 *Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:
 3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)
 (1) 0 + 0 + 0 = 0 °C (2) _____ + _____ + _____ = _____ °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available
JAR W/ICE
 Additional integrity issues (note here and on CoC next to the sample ID):
 1) _____
 2) _____
 3) _____
 Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V559640

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 21, 2011

PAGES (INCLUDING COVER): 21

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1	MV-11BH-11M-4	BV-11BH-09M-1	BV-11BH-09M-5
				3011798	3011800	3011803	3011805	3011812	3011820	3011831	3011841
Antimony	µg/g	40	0.05	0.58	0.53	1.17	0.56	1.36	0.90	2.05	0.49
Arsenic	µg/g	12	0.1	3.4	3.8	5.7	3.9	5.1	11.6	4.5	6.2
Barium	µg/g	2000	0.5	171	157	74.3	182	61.4	160	174	93.3
Beryllium	µg/g	8	0.02	0.58	0.44	0.17	0.61	0.14	0.64	0.26	0.32
Boron (Hot Water Soluble)	µg/g	1.4	0.1	0.1	0.1	2.5	0.1	2.2	0.3	1.5	0.8
Cadmium	µg/g	22	0.01	0.19	0.16	1.05	0.26	0.48	0.37	0.25	0.27
Chromium	µg/g	87	1	52	41	26	51	30	41	38	34
Cobalt	µg/g	300	0.1	7.5	7.4	3.0	8.6	4.7	10.4	7.5	11.6
Copper	µg/g	91	0.2	27.7	18.9	27.1	29.9	27.7	47.5	31.1	29.8
Lead	µg/g	600	0.05	11.7	11.0	107	11.8	46.2	10.3	18.1	7.47
Mercury	µg/g	50	0.01	0.08	0.06	0.14	0.08	0.06	0.08	0.03	0.06
Molybdenum	µg/g	40	0.05	0.52	0.57	2.55	0.64	3.52	4.70	2.14	0.69
Nickel	µg/g	50	0.5	30.5	27.2	12.5	30.5	18.7	40.9	29.0	38.6
Selenium	µg/g	2.9	0.1	0.8	0.6	0.5	0.8	0.5	1.4	0.3	0.6
Silver	µg/g	40	0.05	0.10	0.07	0.10	0.10	0.09	0.16	0.08	0.09
Thallium	µg/g	1	0.05	0.14	0.17	0.07	0.24	<0.05	0.15	<0.05	0.08
Tin	µg/g	300	0.05	1.00	1.52	2.89	0.89	1.33	0.67	3.92	1.70
Uranium	µg/g	300	0.05	1.31	1.27	0.55	1.88	0.74	2.46	0.84	0.67
Vanadium	µg/g	130	1	61	49	26	61	32	62	40	47
Zinc	µg/g	360	1	53	58	446	57	108	76	80	64
pH 1:2	pH units		0.1	6.0	6.0	6.0	6.1	6.7	6.6	7.2	7.3

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

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 CANADA V5J 0B6
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5
				3011850	3011858	3011859
Antimony	µg/g	40	0.05	0.31	0.56	0.64
Arsenic	µg/g	12	0.1	3.6	17.2	17.5
Barium	µg/g	2000	0.5	57.9	87.7	86.9
Beryllium	µg/g	8	0.02	0.21	0.34	0.31
Boron (Hot Water Soluble)	µg/g	1.4	0.1	0.1	0.4	0.4
Cadmium	µg/g	22	0.01	0.12	0.31	0.31
Chromium	µg/g	87	1	25	43	40
Cobalt	µg/g	300	0.1	7.2	11.4	11.0
Copper	µg/g	91	0.2	18.0	30.7	30.3
Lead	µg/g	600	0.05	3.30	7.65	7.39
Mercury	µg/g	50	0.01	0.02	0.06	0.06
Molybdenum	µg/g	40	0.05	0.72	0.81	0.80
Nickel	µg/g	50	0.5	30.1	37.8	37.5
Selenium	µg/g	2.9	0.1	0.2	0.6	0.6
Silver	µg/g	40	0.05	<0.05	0.10	0.10
Thallium	µg/g	1	0.05	<0.05	0.09	0.09
Tin	µg/g	300	0.05	0.28	0.70	0.93
Uranium	µg/g	300	0.05	0.38	0.70	0.69
Vanadium	µg/g	130	1	36	44	43
Zinc	µg/g	360	1	39	66	64
pH 1:2	pH units		0.1	7.5	7.6	7.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)
 3011798-3011859 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1	MV-11BH-11M-4	MV-Dup4	BV-11BH-01M-2
				3011798	3011800	3011803	3011805	3011812	3011820	3011830	3011850
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	0.37	0.05	<0.05	<0.05	0.13	<0.05	0.10	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg	260	10	<10	<10	99	<10	20	13	18	<10
C16 - C34 (F3)	mg/kg	1700	10	139	244	1490	171	1150	412	1030	<10
C34 - C50 (F4)	mg/kg	3300	10	62	115	1060	240	818	306	760	<10
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	42	45	78	41	31	82	26	8
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150		102	101	101	104	104	100	101	103
Ethylbenzene-d10 (BTEX)	%	50-150		108	96	84	110	113	84	104	127
o-Terphenyl (F2-F4)	%	50-150		97	100	99	94	99	97	98	98
				BV-11BH-01M-5							
Parameter	Unit	G / S	RDL	3011858							
Benzene	mg/kg	0.030	0.005	<0.005							
Toluene	mg/kg	0.37	0.05	<0.05							
Ethylbenzene	mg/kg	0.082	0.01	<0.01							
Xylenes	mg/kg	11	0.05	<0.05							
C6 - C10 (F1)	mg/kg	320	10	<10							
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10							
C10 - C16 (F2)	mg/kg	260	10	<10							
C16 - C34 (F3)	mg/kg	1700	10	97							
C34 - C50 (F4)	mg/kg	3300	10	39							
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A							
Moisture Content	%		1	29							
Surrogate	Unit	Acceptable Limits									
Toluene-d8 (BTEX)	%	50-150		102							
Ethylbenzene-d10 (BTEX)	%	50-150		110							
o-Terphenyl (F2-F4)	%	50-150		96							

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3011798-3011858

Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-09M-1 BV-11BH-09M-5	
				3011831	3011841
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	1700	10	494	12
C34 - C50 (F4)	mg/kg	3300	10	344	<10
Moisture Content	%		1	14	29
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		98	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3011831-3011841 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011			DATE RECEIVED: Dec 15, 2011				DATE REPORTED: Dec 21, 2011			SAMPLE TYPE: Soil		
Parameter	Unit	G / S	MV-11BH-13M-2		MV-11BH-13M-3		MV-11BH-12M-1		MV-11BH-12M-2		MV-11BH-11M-1	
			RDL	3011798	3011800	RDL	3011803	RDL	3011805	RDL	3011812	
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	0.3	<0.3	0.2	<0.2	0.1	<0.1	
Benzene	µg/g	0.04	0.02	<0.02	<0.02	0.06	<0.06	0.04	<0.04	0.02	<0.02	
Toluene	µg/g	2.5	0.05	<0.05	<0.05	0.2	0.5	0.1	<0.1	0.05	0.09	
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05	
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05	
o-Xylene	µg/g	20	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05	
Styrene	µg/g	50	0.05	<0.05	<0.05	0.2	<0.2	0.1	<0.1	0.05	<0.05	
VPH	µg/g	200	10	<10	22	30	67	20	<20	10	27	
Naphthalene	µg/g	50	0.01	0.02	0.01	0.02	0.89	0.01	<0.01	0.01	0.32	
2-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.02	0.19	0.01	<0.01	0.01	0.19	
1-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.02	0.12	0.01	<0.01	0.01	0.12	
Acenaphthylene	µg/g		0.01	<0.01	<0.01	0.02	0.13	0.01	<0.01	0.01	0.04	
Acenaphthene	µg/g		0.01	<0.01	<0.01	0.02	0.02	0.01	<0.01	0.01	0.23	
Fluorene	µg/g		0.02	<0.02	<0.02	0.04	0.06	0.02	<0.02	0.02	0.31	
Phenanthrene	µg/g	50	0.02	0.04	<0.02	0.04	0.52	0.02	<0.02	0.02	1.20	
Anthracene	µg/g		0.02	<0.02	<0.02	0.04	0.07	0.02	<0.02	0.02	0.30	
Fluoranthene	µg/g		0.05	<0.05	<0.05	0.1	0.5	0.05	<0.05	0.05	1.80	
Pyrene	µg/g	100	0.02	0.02	<0.02	0.04	0.50	0.02	<0.02	0.02	1.60	
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	0.04	0.10	0.02	<0.02	0.02	0.80	
Chrysene	µg/g		0.05	<0.05	<0.05	0.1	0.1	0.05	<0.05	0.05	0.68	
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.04	0.16	0.02	<0.02	0.02	0.58	
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.04	0.05	0.02	<0.02	0.02	0.29	
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	0.1	0.1	0.05	<0.05	0.05	0.68	
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	0.04	<0.04	0.02	<0.02	0.02	0.31	
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	0.04	<0.04	0.02	<0.02	0.02	0.08	
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	0.1	0.1	0.05	<0.05	0.05	0.31	
LEPH C10-C19	µg/g	2000	25	<25	<25	25	180	25	26	25	68	
HEPH C19-C32	µg/g	5000	25	203	201	25	1100	25	250	25	1100	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
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 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-13M-2 MV-11BH-13M-3		MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1
			3011798	3011800	3011803	3011805	3011812
Nitrobenzene - d5	%	50-130	117	108	114	110	100
2-Fluorobiphenyl	%	50-130	85	91	86	91	96
P-Terphenyl - d14	%	50-130	119	112	105	96	120
Bromofluorobenzene	%	70-130	94.9	94.6	88.8	96.3	99.6
Toluene - d8	%	70-130	109	102	111	117	120

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Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	MV-11BH-11M-4		MV-Dup4		BV-11BH-09M-1	BV-11BH-09M-5	BV-11BH-01M-2		
			RDL	3011820	RDL	3011830	RDL	3011831	3011841	RDL	3011850
Methyl tert-butyl ether (MTBE)	µg/g	700	0.3	<0.3	0.2	<0.2	0.3		0.1	<0.1	
Benzene	µg/g	0.04	0.06	<0.06	0.04	<0.04	0.06		0.02	<0.02	
Toluene	µg/g	2.5	0.2	<0.2	0.1	0.1	0.2		0.05	<0.05	
Ethylbenzene	µg/g	7	0.2	<0.2	0.1	<0.1	0.2		0.05	<0.05	
m&p-Xylene	µg/g	20	0.2	<0.2	0.1	<0.1	0.2		0.05	<0.05	
o-Xylene	µg/g	20	0.2	<0.2	0.1	<0.1	0.2		0.05	<0.05	
Styrene	µg/g	50	0.2	<0.2	0.1	<0.1	0.2		0.05	<0.05	
VPH	µg/g	200	30	<30	20	<20	30		10	<10	
Naphthalene	µg/g	50	0.03	<0.03	0.02	0.37	0.01	0.09	0.01	0.01	<0.01
2-Methylnaphthalene	µg/g		0.03	<0.03	0.02	0.21	0.01	0.04	<0.01	0.01	<0.01
1-Methylnaphthalene	µg/g		0.03	<0.03	0.02	0.13	0.01	0.02	<0.01	0.01	<0.01
Acenaphthylene	µg/g		0.03	<0.03	0.02	0.08	0.01	0.01	<0.01	0.01	<0.01
Acenaphthene	µg/g		0.03	<0.03	0.02	0.30	0.01	<0.01	<0.01	0.01	<0.01
Fluorene	µg/g		0.06	<0.06	0.04	0.44	0.02	<0.02	<0.02	0.02	<0.02
Phenanthrene	µg/g	50	0.06	<0.06	0.04	1.90	0.02	0.02	0.03	0.02	<0.02
Anthracene	µg/g		0.06	<0.06	0.04	0.48	0.02	<0.02	<0.02	0.02	<0.02
Fluoranthene	µg/g		0.2	<0.2	0.1	2.3	0.05	<0.05	<0.05	0.05	<0.05
Pyrene	µg/g	100	0.06	<0.06	0.04	2.20	0.02	0.03	0.03	0.02	<0.02
Benzo(a)anthracene	µg/g	10	0.06	<0.06	0.04	1.00	0.02	<0.02	<0.02	0.02	<0.02
Chrysene	µg/g		0.2	<0.2	0.1	1.0	0.05	<0.05	<0.05	0.05	<0.05
Benzo(b)fluoranthene	µg/g	10	0.06	<0.06	0.04	0.88	0.02	<0.02	<0.02	0.02	<0.02
Benzo(k)fluoranthene	µg/g	10	0.06	<0.06	0.04	0.35	0.02	<0.02	<0.02	0.02	<0.02
Benzo(a)pyrene	µg/g		0.2	<0.2	0.1	0.9	0.05	<0.05	<0.05	0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.06	<0.06	0.04	0.38	0.02	<0.02	<0.02	0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.06	<0.06	0.04	0.12	0.02	<0.02	<0.02	0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.2	<0.2	0.1	0.3	0.05	<0.05	<0.05	0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<80	25	120	25	41	<25	25	<25
HEPH C19-C32	µg/g	5000	25	260	25	2600	25	600	60	25	<25

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-11M-4	MV-Dup4	BV-11BH-09M-1	BV-11BH-09M-5	BV-11BH-01M-2
			3011820	3011830	3011831	3011841	3011850
Nitrobenzene - d5	%	50-130	100	110	110	97	120
2-Fluorobiphenyl	%	50-130	95	89	90	93	120
P-Terphenyl - d14	%	50-130	100	170	70	110	100
Bromofluorobenzene	%	70-130	97.5	99.1			95.6
Toluene - d8	%	70-130	117	111			113

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Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	BV-11BH-01M-5		
		G / S	RDL	3011858
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05
Styrene	µg/g	50	0.05	<0.05
VPH	µg/g	200	10	<10
Naphthalene	µg/g	50	0.01	0.03
2-Methylnaphthalene	µg/g		0.01	<0.01
1-Methylnaphthalene	µg/g		0.01	<0.01
Acenaphthylene	µg/g		0.01	0.01
Acenaphthene	µg/g		0.01	0.01
Fluorene	µg/g		0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.04
Anthracene	µg/g		0.02	<0.02
Fluoranthene	µg/g		0.05	<0.05
Pyrene	µg/g	100	0.02	0.04
Benzo(a)anthracene	µg/g	10	0.02	<0.02
Chrysene	µg/g		0.05	<0.05
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02
Benzo(a)pyrene	µg/g		0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<25
HEPH C19-C32	µg/g	5000	25	79

Certified By:



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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

BV-11BH-01M-5

Surrogate	Unit	Acceptable Limits	3011858
Nitrobenzene - d5	%	50-130	130
2-Fluorobiphenyl	%	50-130	100
P-Terphenyl - d14	%	50-130	110
Bromofluorobenzene	%	70-130	92.7
Toluene - d8	%	70-130	97.8

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

- 3011798-3011800 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
- 3011803-3011805 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits elevated due to high moisture content.
- 3011812 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
- 3011820-3011830 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.
 Detection limits elevated due to high moisture content.
- 3011831-3011841 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.
- 3011850-3011858 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-13M-2	MV-11BH-13M-3	MV-11BH-12M-1	MV-11BH-12M-2	MV-11BH-11M-1	MV-11BH-11M-4	BV-11BH-09M-1	BV-11BH-09M-5
				3011798	3011800	3011803	3011805	3011812	3011820	3011831	3011841
Phenol	mg/kg		0.002	<0.002	0.014	0.097	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	0.474	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	0.034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits									
2-Fluorophenol	%	50-150		116	115	115	110	122	108	110	111
2,4,6-Tribromophenol	%	50-150		114	115	111	109	114	108	109	110

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 14, 2011

DATE RECEIVED: Dec 15, 2011

DATE REPORTED: Dec 21, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-01M-2	BV-11BH-01M-5	BV-Dup5
				3011850	3011858	3011859
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.003	<0.003	<0.003	<0.003
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits				
2-Fluorophenol	%	50-150		121	116	111
2,4,6-Tribromophenol	%	50-150		119	116	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van) 3011798-3011859 Results relate only to the items tested.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V559640
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 21, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony	20111	3011798	0.58	0.58	0.0%	< 0.05	99%	70%	130%	99%	90%	110%	99%	80%	120%	
Arsenic	20111	3011798	3.4	3.5	3.0%	< 0.1	106%	70%	130%	98%	90%	110%	98%	80%	120%	
Barium	20111	3011798	171	170	1.0%	< 0.5	89%	70%	130%	99%	90%	110%	99%	80%	120%	
Beryllium	20111	3011798	0.58	0.58	0.0%	< 0.02	97%	70%	130%	98%	90%	110%	98%	80%	120%	
Boron (Hot Water Soluble)	20111	3011798	0.1	0.1	0.0%	< 0.1				99%	90%	110%	106%	80%	120%	
Cadmium	20111	3011798	0.19	0.18	5.0%	< 0.01				98%	90%	110%	98%	80%	120%	
Chromium	20111	3011798	52	52	0.0%	< 1	89%	70%	130%	93%	90%	110%	93%	80%	120%	
Cobalt	20111	3011798	7.5	7.6	1.0%	< 0.1	85%	70%	130%	94%	90%	110%	94%	80%	120%	
Copper	20111	3011798	27.7	28.4	2.0%	< 0.2	83%	70%	130%	95%	90%	110%	95%	80%	120%	
Lead	20111	3011798	11.7	11.4	3.0%	< 0.05	89%	70%	130%	102%	90%	110%	102%	80%	120%	
Mercury	20111	3011798	0.08	0.08	0.0%	< 0.01	99%	70%	130%	96%	90%	110%	98%	80%	120%	
Molybdenum	20111	3011798	0.52	0.53	2.0%	< 0.05	97%	70%	130%	98%	90%	110%	98%	80%	120%	
Nickel	20111	3011798	30.5	30.5	0.0%	< 0.5	84%	70%	130%	94%	90%	110%	94%	80%	120%	
Selenium	20111	3011798	0.8	0.8	0.0%	< 0.1				100%	90%	110%	100%	80%	120%	
Silver	20111	3011798	0.10	0.10	0.0%	< 0.05				99%	90%	110%	99%	80%	120%	
Thallium	20111	3011798	0.14	0.14	0.0%	< 0.05				104%	90%	110%	104%	80%	120%	
Tin	20111	3011798	1.00	0.85	16.2%	< 0.05				97%	90%	110%	99%	80%	120%	
Uranium	20111	3011798	1.35	1.31	3.0%	< 0.05		0%	0%	101%	90%	110%	100%	80%	120%	
Vanadium	20111	3011798	61	62	2.0%	< 1	90%	70%	130%	95%	90%	110%	95%	80%	120%	
Zinc	20111	3011798	53	54	2.0%	< 1	91%	70%	130%	104%	90%	110%	104%	80%	120%	
pH 1:2	20111	3011850	7.5	7.5	0.0%	< 0.1				101%	95%	105%	96%	90%	110%	

Certified By: 

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis

RPT Date: Dec 21, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

Petroleum Hydrocarbons in Soil

Methyl tert-butyl ether (MTBE)	1	3011798	<0.1	<0.1	0.0%	< 0.1	103%	80%	120%				86%	70%	130%
Benzene	1	3011798	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%				91%	70%	130%
Toluene	1	3011798	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				88%	70%	130%
Ethylbenzene	1	3011798	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				81%	70%	130%
m&p-Xylene	1	3011798	<0.05	<0.05	0.0%	< 0.05	106%	80%	120%				76%	70%	130%
o-Xylene	1	3011798	<0.05	<0.05	0.0%	< 0.05	106%	80%	120%				76%	70%	130%
Styrene	1	3011798	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				81%	70%	130%
Naphthalene	1	3011798	NA	NA	0.0%	< 0.01	110%	80%	120%				125%	50%	130%
2-Methylnaphthalene	1	3011798	0.01	0.01	0.0%	< 0.01	100%	80%	120%				102%	50%	130%
1-Methylnaphthalene	1	3011798	0.01	0.01	0.0%	< 0.01	103%	80%	120%				106%	50%	130%
Acenaphthylene	1	3011798	<0.01	<0.01	0.0%	< 0.01	93%	80%	120%				123%	50%	130%
Acenaphthene	1	3011798	<0.01	<0.01	0.0%	< 0.01	107%	80%	120%				122%	50%	130%
Fluorene	1	3011798	<0.02	<0.02	0.0%	< 0.02	96%	80%	120%				116%	50%	130%
Phenanthrene	1	3011798	NA	NA	0.0%	< 0.02	117%	80%	120%				116%	60%	130%
Anthracene	1	3011798	<0.02	<0.02	0.0%	< 0.02	110%	80%	120%				93%	60%	130%
Fluoranthene	1	3011798	<0.05	<0.05	0.0%	< 0.05	105%	80%	120%				117%	60%	130%
Pyrene	1	3011798	0.02	0.02	0.0%	< 0.02	106%	80%	120%				119%	60%	130%
Benzo(a)anthracene	1	3011798	<0.02	<0.02	0.0%	< 0.02	97%	80%	120%				106%	60%	130%
Chrysene	1	3011798	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	60%	130%
Benzo(b)fluoranthene	1	3011798	<0.02	<0.02	0.0%	< 0.02	115%	80%	120%				124%	60%	130%
Benzo(k)fluoranthene	1	3011798	<0.02	<0.02	0.0%	< 0.02	112%	80%	120%				122%	60%	130%
Benzo(a)pyrene	1	3011798	<0.05	<0.05	0.0%	< 0.05	107%	80%	120%				118%	60%	130%
Indeno(1,2,3-c,d)pyrene	1	3011798	<0.02	<0.02	0.0%	< 0.02	108%	80%	120%				110%	60%	130%
Dibenzo(a,h)anthracene	1	3011798	<0.02	<0.02	0.0%	< 0.02	112%	80%	120%				108%	60%	130%
Benzo(g,h,i)perylene	1	3011798	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				100%	60%	130%
Nitrobenzene - d5	1	3011798	117	102	14.0%	<	102%	80%	120%				122%	50%	130%
2-Fluorobiphenyl	1	3011798	85	90	6.0%	<	98%	80%	120%				105%	50%	130%
P-Terphenyl - d14	1	3011798	119	112	6.0%	<	103%	80%	120%				103%	50%	130%
LEPH C10-C19	1	3010601	1190	861	32.1%	< 25									
HEPH C19-C32	1	3010601	324	236	31.4%	< 25									
Bromofluorobenzene	1	3011798	94.9	91.6	4.0%	<	111%	70%	130%				111%	70%	130%
Toluene - d8	1	3011798	109	112	3.0%	<	110%	70%	130%				113%	70%	130%

Phenolic Compounds in Soil

Phenol	126	3011798	<0.002	<0.002	NA	< 0.002	86%	80%	120%	98%	80%	120%	97%	80%	120%
4-Nitrophenol	126	3011798	<0.005	<0.005	NA	< 0.005	85%	80%	120%	95%	80%	120%	98%	80%	120%
m&p-Cresol (3&4-methylphenol)	126	3011798	<0.005	<0.005	NA	< 0.005				98%	80%	120%	98%	80%	120%
o-Cresol (2-methylphenol)	126	3011798	<0.005	<0.005	NA	< 0.005				96%	80%	120%	97%	80%	120%
2-Chlorophenol	126	3011798	<0.002	<0.002	NA	< 0.002				98%	80%	120%	100%	80%	120%

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 21, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
2,4-Dinitrophenol	126	3011798	<0.005	<0.005	NA	< 0.005	92%	80%	120%	98%	80%	120%	104%	80%	120%	
2-Nitrophenol	126	3011798	<0.005	<0.005	NA	< 0.005	98%	80%	120%	110%	80%	120%	120%	80%	120%	
2,4-Dimethylphenol	126	3011798	<0.005	<0.005	NA	< 0.005	85%	80%	120%	102%	80%	120%	104%	80%	120%	
2,6-Dichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				97%	80%	120%	96%	80%	120%	
4-Chloro-3-methylphenol	126	3011798	<0.005	<0.005	NA	< 0.005	84%	80%	120%	98%	80%	120%	110%	80%	120%	
2,4-Dichlorophenol	126	3011798	<0.002	<0.002	NA	< 0.003	87%	80%	120%	98%	80%	120%	102%	80%	120%	
4,6-Dinitro-2-methylphenol	126	3011798	<0.005	<0.005	NA	< 0.005	95%	80%	120%	105%	80%	120%	115%	80%	120%	
2,3,6-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				98%	80%	120%	100%	80%	120%	
2,3,4-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				99%	80%	120%	101%	80%	120%	
2,4,6-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005	87%	80%	120%	100%	80%	120%	106%	80%	120%	
2,4,5-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				99%	80%	120%	101%	80%	120%	
2,3,5-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				100%	80%	120%	101%	80%	120%	
3,4,5-Trichlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				96%	80%	120%	95%	80%	120%	
2,3,4,6-Tetrachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				103%	80%	120%	106%	80%	120%	
2,3,5,6-Tetrachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				103%	80%	120%	104%	80%	120%	
2,3,4,5-Tetrachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005				103%	80%	120%	105%	80%	120%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	126	3011798	<0.005	<0.005	NA	< 0.005				107%	80%	120%	85%	80%	120%	
Pentachlorophenol	126	3011798	<0.005	<0.005	NA	< 0.005	92%	80%	120%	104%	80%	120%	94%	80%	120%	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)																
Benzene	332	3011850	<0.005	<0.005	NA	< 0.005	83%	80%	120%	83%	80%	120%	87%	60%	140%	
Toluene	332	3011850	<0.05	<0.05	NA	< 0.05	84%	80%	120%	90%	80%	120%	92%	60%	140%	
Ethylbenzene	332	3011850	<0.01	<0.01	NA	< 0.01	86%	80%	120%	103%	80%	120%	101%	60%	140%	
Xylenes	332	3011850	<0.05	<0.05	NA	< 0.05	85%	80%	120%	99%	80%	120%	98%	60%	140%	
C6 - C10 (F1)	332	3011850	<10	<10	NA	< 10	82%	80%	120%	113%	80%	120%	126%	60%	140%	
C10 - C16 (F2)	850	3011850	<10	<10	NA	< 10	102%	80%	120%	95%	80%	120%	100%	60%	140%	
C16 - C34 (F3)	850	3011850	<10	<10	NA	< 10	102%	80%	120%	94%	80%	120%	93%	60%	140%	
C34 - C50 (F4)	850	3011850	<10	<10	NA	< 10	102%	80%	120%	92%	80%	120%	94%	60%	140%	

Certified By:





Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c.d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V559640

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV



AGAT Laboratories

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Chain of Custody Record

Ph.: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: Franz Environmental
 Contact: Amanda Salway
 Address: 108-1080 Mountainview St.
Vancouver, BC V6B 2T4
 Phone: 604 652-9747 Fax: 604 652-9742
 LSD: _____
 Client Project #: 2090-1103

Report Information
 1. Name: Amanda Salway
 Email: ASalway@franzbc.com
 2. Name: Viviane Dubois-Cote
 Email: vdCote@franzbc.com

Regulatory Requirements (Check):
 BC CSR - Soil BC CSR - Water
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/A/E #: _____

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 Rush TAT 48 to 72 hours
 Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: 11V5591640
 Notes: DEC 15 AM 8:03

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LPH/HEPH	BC CSR Metals + CCME Metals	VOCs	BC CSR Schedule II	Routine Potability	CCME F2-P4	CCME F1	PAM	Non-Chlorinated	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
3011783	MV-118K-13M-1	SOIL	14/12/2011												4			
798	MV-118K-13M-2														4			
800	MV-118K-13M-3														4			
802	MV-118K-13M-4														3			
803	MV-118M-12M-1														4			
805	MV-118M-12M-2														4			
807	MV-118M-12M-3														3			
810	MV-118M-12M-4														4			
812	MV-118M-11M-1														4			
816	MV-118M-11M-2														4			
817	MV-118M-11M-3														4			
V820	MV-118M-11M-4														4			

Samples Relinquished by (print name & sign): S. Colwell Date: 14/12/2011
 Samples Relinquished by (print name & sign): _____ Date: _____
 Samples Relinquished by (print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____
 Samples Received by (Print name & sign): _____ Date: _____
 Samples Received by (Print name & sign): _____ Date: _____

Page 1 of 3
 Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT
 NO: 000291



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 - Fax: 778.452.7074

Report To:
 Company: same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):

BC CSR - Soil **BC CSR - Water**

Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock

CCME

Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: _____
 Notes: DEC 15 AMB:04

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Invoice To: Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/AFE #: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and CCME metals	VOCs	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 Year
830	MV-DUP24	SOIL	14/12/2011		X	X					2	N	N	60 days
831	BV-11BK-09M-1				X	X					3	N	N	
833	BV-11BK-09M-2				X	X					3	N	N	
834	BV-11BK-09M-3				X	X					3	N	N	
838	BV-11BK-09M-4				X	X					3	N	N	
841	BV-11BK-09M-5				X	X					3	N	N	
842	BV-11BK-09M-6				X	X					3	N	N	
845	BV-11BK-01M-1				X	X					4	N	N	
850	BV-11BK-01M-2				X	X					4	N	N	
851	BV-11BK-01M-3				X	X					4	N	N	
855	BV-11BK-01M-4				X	X					4	N	N	
858	BV-11BK-01M-5				X	X					4	N	N	

Samples Relinquished by (print name & sign): Amogwa Date: 14/12/2011

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____

Samples Received by (Print name & sign): _____ Date: _____

Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT

Page 2 of 3
 NO: 000292



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):

BC CSR - Soil **BC CSR - Water**

Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock

CCME

Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Invoice To: Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/A/E #: _____

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only 30C
 Arrival Temperature: _____
 AGAT Job Number: _____

Notes: **DEC 15 AM 8:04**

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

BC CSR BTEX/VPH	
BC CSR LEPH/HEPH	
BC CSR Metals	<input checked="" type="checkbox"/>
VOCs	
BC CSR Schedule II	
Routine Potability	
Number of Containers	2
Preserved (Y/N)	(N)
Hazardous (Y/N)	(N)
Hold for 1 YEAR	60 days

BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	VOCs	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR
		<input checked="" type="checkbox"/>							

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment
3011859	BV-DUPS	SOIL	14/12/2011	

Samples Relinquished by (print name & sign): [Signature] Date: 14/12/2011

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Relinquished by (print name & sign): _____ Date: _____

Pink Copy - Client Page 3 of 3
 Yellow Copy - AGAT NO: 000293
 White Copy - AGAT



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11V559640

RECEIVING BASICS:
 *Complete CoC as well where required
 Date and Time: 15-DEC-11 @ 8:03AM
 Courier: _____
 Received by: S. Cozens
 Relinquished by: In drop off Shed
 Branch Received From: _____
 Company: Franz Env
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:
 Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg TAT
 COC Numbers: 000291, 292, 293

SAMPLE QUANTITIES:
 Coolers: _____ Bottles/Jars: _____ Bags: _____

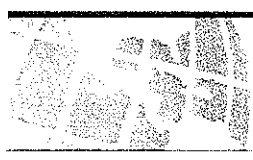
TIME SENSITIVE ISSUES:
 Earliest Date Sampled: 14-DEC-11 ALREADY EXCEEDED? Yes No
 Microbiology: Test: _____ Expiry: _____
 Hydrocarbons: Test: BTEX Expiry: 20-DEC-11
 Samples are received >5 days after sampling: Yes No

SPECIALTY ISSUES:
 Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:
 *Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:
 3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)
 (1) 3 + 3 + 2 = 3 °C (2) 2 + 2 + 4 = 3 °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available
 Additional integrity issues (note here and on CoC next to the sample ID):
 1) _____
 2) _____
 3) _____
 Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM Work order # 11V559640

RECEIVING BASICS:
 *Complete CoC as well where required
 Date and Time: Dec. 16, 2011 / 8:18 AM
 Courier: DAL
 Received by: JAN
 Relinquished by: _____
 Company: FRANZ ENVIRONMENTAL
 Consultant: _____
 Client left without count verified: _____

COC INFORMATION:
 Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: REGULAR
 COC Numbers: 000291 WOH# 11V559640

SAMPLE QUANTITIES:
 Coolers: 1 Bottles/Jars: 22 Bags: 0

TIME SENSITIVE ISSUES:
 Earliest Date Sampled: Dec. 14, 2011
 Microbiology: Test: _____
 Hydrocarbons: Test: _____
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: _____

SPECIALTY ISSUES:
 Legal Samples: Yes No
 International Samples: Yes No
 **Proper tape/labels applied: Yes No

 Hazardous Samples:
 Why hazardous: _____

 Precaution taken: _____

SAMPLE REQUIREMENTS:
 *Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:
 3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)
 (1) 0 + 0 + 0 = 0 °C (2) _____ + _____ + _____ = _____ °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C
 *Jars used when available
JAR W/ICE
 Additional integrity issues (note here and on CoC next to the sample ID):
 1) _____
 2) _____
 3) _____

 Account Project Manager: _____ Have they been notified of the above issues: Yes No
 Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560293

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 20

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-2	MV-11BH-01M-3	MV-11BH-01M-4	BV-11BH-03M-1	BV-11BH-03M-3
				3017390	3017392	3017393	3017398	3017432
Antimony	µg/g	40	0.05	0.52	1.65	0.61	0.39	0.82
Arsenic	µg/g	15	0.1	5.9	4.2	5.5	4.3	10.0
Barium	µg/g	400	0.5	99.1	123	101	74.7	83.8
Beryllium	µg/g	8	0.02	0.34	0.18	0.31	0.21	0.24
Boron (Hot Water Soluble)	µg/g		0.1	0.3	13.7	1.2	0.2	0.2
Cadmium	µg/g		0.01	0.40	0.39	0.30	0.14	0.22
Chromium	µg/g	60	1	38	31	38	27	29
Cobalt	µg/g	300	0.1	12.3	6.6	11.0	8.6	9.6
Copper	µg/g		0.2	32.7	30.2	30.3	37.3	22.6
Lead	µg/g		0.05	6.02	33.6	8.55	3.62	7.24
Mercury	µg/g		0.01	0.04	0.12	0.06	0.03	0.04
Molybdenum	µg/g	40	0.05	1.14	1.03	0.84	0.60	0.94
Nickel	µg/g	500	0.5	45.8	36.5	38.4	30.0	34.9
Selenium	µg/g	10	0.1	0.6	0.3	0.5	0.3	0.4
Silver	µg/g	40	0.05	0.10	0.10	0.09	0.05	0.07
Thallium	µg/g		0.05	0.11	0.06	0.10	0.06	0.08
Tin	µg/g	300	0.05	0.52	4.77	0.93	0.29	0.48
Uranium	µg/g	200	0.05	0.68	0.67	0.73	0.39	0.55
Vanadium	µg/g		1	48	31	49	37	39
Zinc	µg/g		1	67	111	71	47	48
pH 1:2	pH units		0.1	7.2	7.3	7.2	7.5	7.1

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3017390-3017432 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Soil Analysis - Ion Analysis with Conversions - Cl & Na

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	MV-11BH-01M-4	
			RDL	3017393
Chloride, Soluble	mg/L		2	13
Sodium, Soluble	mg/L		2	17
Chloride, Soluble (mg/kg)	mg/kg		2	7
Sodium, Soluble (mg/kg)	mg/kg		2	9

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)					
DATE SAMPLED: Dec 15, 2011		DATE RECEIVED: Dec 16, 2011		DATE REPORTED: Dec 23, 2011	
				SAMPLE TYPE: Soil	
		BV-11BH-03M-1 BV-11BH-03M-3			
Parameter	Unit	G / S	RDL	3017398	3017432
Benzene	mg/kg		0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10
C16 - C34 (F3)	mg/kg		10	<10	<10
C34 - C50 (F4)	mg/kg		10	<10	<10
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A
Moisture Content	%		1	17	23
Surrogate	Unit	Acceptable Limits			
Toluene-d8 (BTEX)	%	50-150			
Ethylbenzene-d10 (BTEX)	%	50-150			
o-Terphenyl (F2-F4)	%	50-150			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3017398-3017432 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 15, 2011		DATE RECEIVED: Dec 16, 2011		DATE REPORTED: Dec 23, 2011		SAMPLE TYPE: Soil
Parameter	Unit	G / S	RDL	MV-11BH-17M-1 3017445	MV-11BH-17M-3 3017448	MV-DUP7 3017451
C10 - C16 (F2)	mg/kg		10	<10	<10	<10
C16 - C34 (F3)	mg/kg		10	24	29	29
C34 - C50 (F4)	mg/kg		10	27	25	21
Moisture Content	%		1	23	31	31
Surrogate	Unit	Acceptable Limits				
o-Terphenyl (F2-F4)	%	50-150		103	98	100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3017445-3017451 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram has returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-03M-1	BV-11BH-03M-3	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
				3017398	3017432	3017445	3017448	3017451
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1			
Benzene	µg/g	0.04	0.02	<0.02	<0.02			
Toluene	µg/g	2.5	0.05	<0.05	<0.05			
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05			
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05			
o-Xylene	µg/g	20	0.05	<0.05	<0.05			
Styrene	µg/g	50	0.05	<0.05	<0.05			
VPH	µg/g	200	10	<10	<10			
Naphthalene	µg/g	50	0.01	<0.01	0.01	0.02	<0.01	0.01
2-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	0.02	<0.01	0.01
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	0.01	<0.01	<0.01
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.02	<0.02	0.04	<0.02	0.03
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	µg/g		0.05	<0.05	<0.05	0.06	<0.05	<0.05
Pyrene	µg/g	100	0.02	<0.02	<0.02	0.05	<0.02	0.03
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	0.03	<0.02	0.02
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.02	<0.02	0.02
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	<25	<25
HEPH C19-C32	µg/g	5000	25	<25	71	41	56	49

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 15, 2011		DATE RECEIVED: Dec 16, 2011		DATE REPORTED: Dec 23, 2011		SAMPLE TYPE: Soil	
Surrogate	Unit	Acceptable Limits	BV-11BH-03M-1	BV-11BH-03M-3	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
			3017398	3017432	3017445	3017448	3017451
Nitrobenzene - d5	%	50-130	100	89	83	100	89
2-Fluorobiphenyl	%	50-130	100	91	92	98	95
P-Terphenyl - d14	%	50-130	99	91	93	110	100
Bromofluorobenzene	%	70-130	108	97.4			
Toluene - d8	%	70-130	128	116			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3017398-3017432 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3017445-3017451 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.

Certified By: _____



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-03M-1 BV-11BH-03M-3	
				3017398	3017432
Phenol	mg/kg		0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits			
2-Fluorophenol	%	50-150		109	112
2,4,6-Tribromophenol	%	50-150		108	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van) 3017398-3017432 Results relate only to the items tested.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4	MV-Dup
				3017393	3017396
Chloromethane	µg/g	160	0.05	<0.05	<0.05
Vinyl Chloride	µg/g	7.5	0.05	<0.05	<0.05
Bromomethane	µg/g	13	0.05	<0.05	<0.05
Chloroethane	µg/g	65	0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	2000	0.05	<0.05	<0.05
Acetone	µg/g	54000	0.5	<0.5	<0.5
1,1-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
Dichloromethane	µg/g	50	0.05	<0.05	<0.05
Methyl tert-butyl ether (MTBE)	µg/g	700	0.05	<0.05	<0.05
2-Butanone (MEK)	µg/g	110000	0.5	<0.5	<0.5
trans-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	50	0.05	<0.05	<0.05
cis-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
Chloroform	µg/g	50	0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	50	0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	50	0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	50	0.025	<0.025	<0.025
Benzene	µg/g	0.04	0.025	<0.025	<0.025
1,2-Dichloropropane	µg/g	50	0.05	<0.05	<0.05
Trichloroethene	µg/g	0.015	0.05	<0.05	<0.05
Bromodichloromethane	µg/g	18	0.05	<0.05	<0.05
trans-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)	µg/g		0.5	<0.5	<0.5
cis-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	50	0.05	<0.05	<0.05
Toluene	µg/g	2.5	0.025	<0.025	<0.025
Dibromochloromethane	µg/g	26	0.05	<0.05	<0.05
Ethylene Dibromide	µg/g	0.73	0.05	<0.05	<0.05
Tetrachloroethene	µg/g		0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	73	0.05	<0.05	<0.05
Chlorobenzene	µg/g	10	0.05	<0.05	<0.05
Ethylbenzene	µg/g	7	0.025	<0.025	<0.025
m&p-Xylene	µg/g	20	0.025	<0.025	<0.025

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4	MV-Dup
				3017393	3017396
Bromoform	µg/g	2200	0.05	<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	9.3	0.05	<0.05	<0.05
o-Xylene	µg/g	20	0.025	<0.025	<0.025
1,3-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	µg/g	10	0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits			
Bromofluorobenzene	%	50-150		91	110
Dibromofluoromethane	%	50-150		110	130
Toluene - d8	%	50-150		110	130

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3017393-3017396 Results are based on dry weight of sample.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V560293
 ATTENTION TO: Amanda Salway

Soil Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Soil Analysis - Ion Analysis with Conversions - Cl & Na

Chloride, Soluble	90	632	11	11	0.0%	< 2	106%	80%	120%	96%		102%	80%	120%
Sodium, Soluble	6812	6923	16	16	0.9%	< 2	97%	80%	120%				80%	120%

Comments: N/A: Not applicable

British Columbia Metals Schedule 4 and 5 (181-588)

Antimony	3017432	0.8	0.5	46.2%	< 0.05	102%	70%	130%	95%	90%	110%	95%	80%	120%
Arsenic	3017432	10.0	9.2	8.3%	< 0.1	110%	70%	130%	109%	90%	110%	109%	80%	120%
Barium	3017432	83.8	74.0	12.4%	< 0.5	98%	70%	130%	103%	90%	110%	103%	80%	120%
Beryllium	3017432	0.24	0.26	8.0%	< 0.02	104%	70%	130%	100%	90%	110%	100%	80%	120%
Boron (Hot Water Soluble)	3020034	0.103	0.097	6.0%	< 0.1				106%	90%	110%	112%	80%	120%
Cadmium	3017432	0.22	0.23	4.4%	< 0.01				98%	90%	110%	98%	80%	120%
Chromium	3017432	29	30	3.4%	< 1	99%	70%	130%	98%	90%	110%	98%	80%	120%
Cobalt	3017432	9.6	9.9	3.1%	< 0.1	92%	70%	130%	98%	90%	110%	98%	80%	120%
Copper	3017432	22.6	23.6	4.3%	< 0.2	90%	70%	130%	97%	90%	110%	97%	80%	120%
Lead	3017432	7.24	4.09	55.6%	< 0.05	92%	70%	130%	97%	90%	110%	97%	80%	120%
Mercury	3017432	0.041	0.043	4.8%	< 0.01	95%	70%	130%	95%	90%	110%	96%	80%	120%
Molybdenum	3017432	0.94	0.92	2.2%	< 0.05	99%	70%	130%	101%	90%	110%	101%	80%	120%
Nickel	3017432	34.9	36.9	5.6%	< 0.5	93%	70%	130%	96%	90%	110%	96%	80%	120%
Selenium	3017432	0.4	0.5	22.2%	< 0.1				99%	90%	110%	113%	80%	120%
Silver	3017432	0.07	0.07	0.0%	< 0.05				97%	90%	110%	97%	80%	120%
Thallium	3017432	0.08	0.08	0.0%	< 0.05				97%	90%	110%	97%	80%	120%
Tin	3017432	0.48	0.46	4.3%	< 0.05				108%	90%	110%	108%	80%	120%
Uranium	3017432	0.55	0.53	3.7%	< 0.05		0%	0%	97%	90%	110%	95%	80%	120%
Vanadium	3017432	39	42	7.4%	< 1	100%	70%	130%	99%	90%	110%	99%	80%	120%
Zinc	3017432	48	51	6.1%	< 1	99%	70%	130%	109%	90%	110%	109%	80%	120%
pH 1:2	3021236	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%

British Columbia Metals Schedule 4 and 5 (181-588)

Antimony	20111 3017432	0.82	0.45	58.0%	< 0.05	102%	70%	130%	95%	90%	110%	95%	80%	120%
Arsenic	20111 -11111	0	0	0.0%	< 0.1	110%	70%	130%	109%	90%	110%	109%	80%	120%
Barium	20111 3017432	83.8	74.0	12.0%	< 0.5	98%	70%	130%	103%	90%	110%	103%	80%	120%
Beryllium	20111 3017432	0.24	0.26	8.0%	< 0.02	104%	70%	130%	100%	90%	110%	100%	80%	120%
Boron (Hot Water Soluble)	20111 3017432	0.2	0.2	0.0%	< 0.1				121%	90%	110%		80%	120%
Cadmium	20111 3017432	0.22	0.23	4.0%	< 0.01	124%			98%	90%	110%	98%	80%	120%
Chromium	20111 3017432	29	30	3.0%	< 1	99%	70%	130%	98%	90%	110%	98%	80%	120%
Cobalt	20111 3017432	9.6	9.9	3.0%	< 0.1	92%	70%	130%	98%	90%	110%	98%	80%	120%
Copper	20111 3017432	22.6	23.6	4.0%	< 0.2	90%	70%	130%	97%	90%	110%	97%	80%	120%
Lead	20111 3017432	7.24	4.09	56.0%	< 0.05	92%	70%	130%	97%	90%	110%	97%	80%	120%
Mercury	20111 3017432	0.04	0.04	0.0%	< 0.01	95%	70%	130%		90%	110%		80%	120%



Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560293
 ATTENTION TO: Amanda Salway

Soil Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Molybdenum	20111	3017432	0.94	0.92	2.0%	< 0.05	99%	70%	130%	101%	90%	110%	101%	80%	120%	
Nickel	20111	3017432	34.9	36.9	6.0%	< 0.5	93%	70%	130%	96%	90%	110%	96%	80%	120%	
Selenium	20111	3017432	0.4	0.5	22.0%	< 0.1	49%			23%	90%	110%	23%	80%	120%	
Silver	20111	3017432	0.07	0.07	0.0%	< 0.05	117%			97%	90%	110%	97%	80%	120%	
Thallium	20111	3017432	0.08	0.08	0.0%	< 0.05	68%			97%	90%	110%	97%	80%	120%	
Tin	20111	3017432	0.48	0.46	4.0%	< 0.05	122%			108%	90%	110%	108%	80%	120%	
Vanadium	20111	3017432	39	42	7.0%	< 1	100%	70%	130%	99%	90%	110%	99%	80%	120%	
Zinc	20111	3017432	48	51	6.0%	< 1	99%	70%	130%	109%	90%	110%	109%	80%	120%	

Certified By: _____

Mari England

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

Benzene	134	3020411	<0.005	<0.005	NA	< 0.005	119%	80%	120%	114%	80%	120%	118%	60%	140%
Toluene	134	3020411	<0.05	<0.05	NA	< 0.05	113%	80%	120%	108%	80%	120%	112%	60%	140%
Ethylbenzene	134	3020411	<0.01	<0.01	NA	< 0.01	109%	80%	120%	108%	80%	120%	112%	60%	140%
Xylenes	134	3020411	<0.05	<0.05	NA	< 0.05	109%	80%	120%	107%	80%	120%	111%	60%	140%
C6 - C10 (F1)	134	3020411	<10	<10	NA	< 10	106%	80%	120%	80%	80%	120%	82%	60%	140%
C10 - C16 (F2)	876	3019368	20	<10	NA	< 10	113%	80%	120%	108%	80%	120%	104%	60%	140%
C16 - C34 (F3)	876	3019368	<10	<10	NA	< 10	113%	80%	120%	102%	80%	120%	106%	60%	140%
C34 - C50 (F4)	876	3019368	<10	<10	NA	< 10	113%	80%	120%	101%	80%	120%	107%	60%	140%

Volatile Organic Compounds in Soil (180-054)

Chloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				109%	70%	130%
Vinyl Chloride	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				109%	70%	130%
Bromomethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	96%	80%	120%				106%	70%	130%
Chloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Trichlorofluoromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				111%	70%	130%
Acetone	1	3020046	<0.5	<0.5	0.0%	< 0.5	109%	80%	120%				129%	70%	130%
1,1-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				112%	70%	130%
Dichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				113%	70%	130%
Methyl tert-butyl ether (MTBE)	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%
2-Butanone (MEK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	102%	80%	120%				111%	70%	130%
trans-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				114%	70%	130%
1,1-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%
cis-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Chloroform	1	3020046	<0.05	<0.05	0.0%	< 0.05	91%	80%	120%				104%	70%	130%
1,2-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%
1,1,1-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				113%	70%	130%
Carbon Tetrachloride	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				112%	70%	130%
Benzene	1	3020046	<0.025	<0.025	0.0%	< 0.025	100%	80%	120%				115%	70%	130%
1,2-Dichloropropane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Trichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%
Bromodichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				116%	70%	130%
trans-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				112%	70%	130%
4-Methyl-2-pentanone (MIBK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	104%	80%	120%				112%	70%	130%
cis-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	70%	130%
1,1,2-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				114%	70%	130%
Toluene	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				114%	70%	130%
Dibromochloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				114%	70%	130%
Ethylene Dibromide	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Tetrachloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				126%	70%	130%

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,1,1,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				114%	70%	130%	
Chlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				109%	70%	130%	
Ethylbenzene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				110%	70%	130%	
m&p-Xylene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				111%	70%	130%	
Bromoform	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				109%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				110%	70%	130%	
1,1,2,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				108%	70%	130%	
o-Xylene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				112%	70%	130%	
1,3-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				105%	70%	130%	
1,4-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				105%	70%	130%	
1,2-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				106%	70%	130%	
1,2,4-Trichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				105%	70%	130%	
Bromofluorobenzene	1	3020046	107	78	31.0%	<	111%	70%	130%				128%	70%	130%	
Dibromofluoromethane	1	3020046	121	80	41.0%	<	111%	70%	130%				129%	70%	130%	
Toluene - d8	1	3020046	125	86	37.0%	<	110%	70%	130%				128%	70%	130%	
Petroleum Hydrocarbons in Soil																
Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%				91%	70%	130%	
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				93%	70%	130%	
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				90%	70%	130%	
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				85%	70%	130%	
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				79%	70%	130%	
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				84%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				85%	70%	130%	
VPH	1	3020046	<10	<10	0.0%	< 10										
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%				105%	50%	130%	
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%				99%	50%	130%	
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%				102%	50%	130%	
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%				94%	50%	130%	
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%				90%	50%	130%	
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%				95%	50%	130%	
Phenanthrene	1	3018978	0.04	0.05	22.0%	< 0.02	98%	80%	120%				92%	60%	130%	
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%				79%	60%	130%	
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				96%	60%	130%	
Pyrene	1	3018978	0.06	0.05	18.0%	< 0.02	100%	80%	120%				98%	60%	130%	
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%				88%	60%	130%	
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				94%	60%	130%	
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%				87%	60%	130%	
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				91%	60%	130%	
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				90%	60%	130%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				90%	60%	130%	
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				88%	60%	130%	
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				93%	60%	130%	
Nitrobenzene - d5	1	3018978	81	90	11.0%	<	100%	80%	120%				100%	50%	130%	
2-Fluorobiphenyl	1	3018978	86	94	9.0%	<	101%	80%	120%				91%	50%	130%	
P-Terphenyl - d14	1	3018978	90	99	10.0%	<	98%	80%	120%				88%	50%	130%	
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25										
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25										
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%				108%	70%	130%	
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%				111%	70%	130%	
Phenolic Compounds in Soil																
Phenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2-Chlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	95%	60%	140%	
2-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	94%	60%	140%	
4-Chloro-3-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	100%	60%	140%	
2,4-Dichlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	95%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	102%	60%	140%	
2,3,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
2,3,4-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	
2,4,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	98%	60%	140%	
2,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
2,3,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	100%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	100%	60%	140%	

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER
Chloride, Soluble	SOIL 0110; SOIL 0120; INST 0330	SHEPPARD 2007; EATON 2005	CONTINUOUS FLOW ANALYZER
Sodium, Soluble	SOIL 0110; SOIL 0120; INST 0140	SHEPPARD 2007; EATON 2005	ICP/OES

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Chloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Vinyl Chloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromomethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichlorofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Acetone	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
2-Butanone (MEK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Carbon Tetrachloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Benzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloropropane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
4-Methyl-2-pentanone (MIBK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dibromochloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylene Dibromide	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Tetrachloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylbenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
m&p-Xylene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Styrene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
o-Xylene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,3-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,4-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2,4-Trichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Report To:
 Company: Franz Environmental
 Contact: Ammanda Salway
 Address: 308-1080 Munton Rd St.
Vancouver, BC V6B 2T4
 Phone: 604 632-9944 Fax: 604-632-9944
 LSD: _____
 Client Project #: 2090-1103

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/A/E #: _____

Report Information
 1. Name: Ammanda Salway
 Email: asalway@franzbc.com
 2. Name: Viviane Dupois-COPE
 Email: vdcoke@franzbc.com

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: 11V560293
 Notes: _____

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and COME MOXILL	VOCs	BC CSR Schedule II	Routine Potability	Soils	F1-F4	PAH	Phonols (over monochlorinated)	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
										1			X
										3			X
										1			X
										3			X
										1			X
										4			X
										4			X
										4			X
										4			X
										2			X

Date _____
 Date _____
 Date _____
 Date _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and COME MOXILL	VOCs	BC CSR Schedule II	Routine Potability	Soils	F1-F4	PAH	Phonols (over monochlorinated)	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
17586	MV-1181-O1M-1	Soil	15/12/2011															X
390	MV-1181-O1M-2																	X
392	MV-1181-O1M-3																	X
393	MV-1181-O1M-4																	X
394	MV-1181-O1M-5																	X
396	MV-DUP6																	X
398	BV-1181-O3M-1																	X
400	BV-1181-O3M-2																	X
432	BV-1181-O3M-3																	X
443	BV-1181-O3M-4																	X
444	BV-1181-O3M-5																	X
445	MV-1181-O1M-1																	X

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Information
 1. Name: Ammanda Salway
 Email: asalway@franzbc.com
 2. Name: Viviane Dupois-COPE
 Email: vdcoke@franzbc.com



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatiabs.com

Chain of Custody Record

Ph: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: Same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Invoice To:
 Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/A/E #: _____

Report Information
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only 3°C
 Arrival Temperature: _____
 AGAT Job Number: 11N560293

Notes: DEC 16 AM 7:56

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours 48 to 72 hours

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and CCME metals	VOCs	BC CSR Schedule II	Routine Potability	CCME P2-P4	PAH	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
3017446	MV-118M-17M-2	SOIL	15/12/2011										2			X
7448	MV-118M-17M-3					X					X		2			X
7449	MV-118M-17M-4					X					X		2			X
7451	MV-DUP7										X		2			X

Samples Relinquished by (print name & sign): Andrew Ramsay 15/12/2011 Date

Samples Relinquished by (print name & sign): S. Collins 16-DEC-11 @ 7:56 AM Date

Samples Relinquished by (print name & sign): _____ _____ Date

Page 2 **of** 2

NO: 000295

Client: Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11V560293

RECEIVING BASICS:

*Complete CoC as well where required
 Date and Time: 16-DEC-11 @
 Courier: _____
 Received by: S. Collins
 Relinquished by: In dropoff Area
 Branch Received From: _____
 Company: Franz GW
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg
 CoC Numbers: 295, 294

SAMPLE QUANTITIES:

Coolers: 1 Bottles/Jars: 42 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 15-DEC-11
 Microbiology: Test: _____
 Hydrocarbons: Test: BTEX
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: 22-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 4 + 3 = 3 °C (2) ___ + ___ + ___ = ___ °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) Client requesting "Salts" for analysis
- 2) which test is this?
- 3) _____

Account Project Manager: Melissa Bhees Have they been notified of the above issues: Yes No
 Whom spoken to: Melissa Bhees Date and Time: 16-DEC-11 @ 10:00AM

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560293

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 20

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-2	MV-11BH-01M-3	MV-11BH-01M-4	BV-11BH-03M-1	BV-11BH-03M-3
				3017390	3017392	3017393	3017398	3017432
Antimony	µg/g	40	0.05	0.52	1.65	0.61	0.39	0.82
Arsenic	µg/g	12	0.1	5.9	4.2	5.5	4.3	10.0
Barium	µg/g	2000	0.5	99.1	123	101	74.7	83.8
Beryllium	µg/g	8	0.02	0.34	0.18	0.31	0.21	0.24
Boron (Hot Water Soluble)	µg/g	1.4	0.1	0.3	13.7	1.2	0.2	0.2
Cadmium	µg/g	22	0.01	0.40	0.39	0.30	0.14	0.22
Chromium	µg/g	87	1	38	31	38	27	29
Cobalt	µg/g	300	0.1	12.3	6.6	11.0	8.6	9.6
Copper	µg/g	91	0.2	32.7	30.2	30.3	37.3	22.6
Lead	µg/g	600	0.05	6.02	33.6	8.55	3.62	7.24
Mercury	µg/g	50	0.01	0.04	0.12	0.06	0.03	0.04
Molybdenum	µg/g	40	0.05	1.14	1.03	0.84	0.60	0.94
Nickel	µg/g	50	0.5	45.8	36.5	38.4	30.0	34.9
Selenium	µg/g	2.9	0.1	0.6	0.3	0.5	0.3	0.4
Silver	µg/g	40	0.05	0.10	0.10	0.09	0.05	0.07
Thallium	µg/g	1	0.05	0.11	0.06	0.10	0.06	0.08
Tin	µg/g	300	0.05	0.52	4.77	0.93	0.29	0.48
Uranium	µg/g	300	0.05	0.68	0.67	0.73	0.39	0.55
Vanadium	µg/g	130	1	48	31	49	37	39
Zinc	µg/g	360	1	67	111	71	47	48
pH 1:2	pH units		0.1	7.2	7.3	7.2	7.5	7.1

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)
 3017390-3017432 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Soil Analysis - Ion Analysis with Conversions - Cl & Na

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	MV-11BH-01M-4	
			RDL	3017393
Chloride, Soluble	mg/L		2	13
Sodium, Soluble	mg/L		2	17
Chloride, Soluble (mg/kg)	mg/kg		2	7
Sodium, Soluble (mg/kg)	mg/kg		2	9

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	BV-11BH-03M-1 BV-11BH-03M-3		
			RDL	3017398	3017432
Benzene	mg/kg		0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10
C16 - C34 (F3)	mg/kg		10	<10	<10
C34 - C50 (F4)	mg/kg		10	<10	<10
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A
Moisture Content	%		1	17	23
Surrogate	Unit	Acceptable Limits			
Toluene-d8 (BTEX)	%	50-150		99	99
Ethylbenzene-d10 (BTEX)	%	50-150		99	95
o-Terphenyl (F2-F4)	%	50-150		100	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3017398-3017432 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
				3017445	3017448	3017451
C10 - C16 (F2)	mg/kg		10	<10	<10	<10
C16 - C34 (F3)	mg/kg		10	24	29	29
C34 - C50 (F4)	mg/kg		10	27	25	21
Moisture Content	%		1	23	31	31
Surrogate	Unit	Acceptable Limits				
o-Terphenyl (F2-F4)	%	50-150		103	98	100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3017445-3017451 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram has returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 15, 2011		DATE RECEIVED: Dec 16, 2011			DATE REPORTED: Dec 23, 2011			SAMPLE TYPE: Soil	
Parameter	Unit	G / S	RDL	BV-11BH-03M-1	BV-11BH-03M-3	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7	
				3017398	3017432	3017445	3017448	3017451	
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1				
Benzene	µg/g	0.04	0.02	<0.02	<0.02				
Toluene	µg/g	2.5	0.05	<0.05	<0.05				
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05				
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05				
o-Xylene	µg/g	20	0.05	<0.05	<0.05				
Styrene	µg/g	50	0.05	<0.05	<0.05				
VPH	µg/g	200	10	<10	<10				
Naphthalene	µg/g	50	0.01	<0.01	0.01	0.02	<0.01	0.01	
2-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	0.02	<0.01	0.01	
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	0.01	<0.01	<0.01	
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Phenanthrene	µg/g	50	0.02	0.02	<0.02	0.04	<0.02	0.03	
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Fluoranthene	µg/g		0.05	<0.05	<0.05	0.06	<0.05	<0.05	
Pyrene	µg/g	100	0.02	<0.02	<0.02	0.05	<0.02	0.03	
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	0.03	<0.02	0.02	
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.02	<0.02	0.02	
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	<25	<25	
HEPH C19-C32	µg/g	5000	25	<25	71	41	56	49	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	BV-11BH-03M-1	BV-11BH-03M-3	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
			3017398	3017432	3017445	3017448	3017451
Nitrobenzene - d5	%	50-130	100	89	83	100	89
2-Fluorobiphenyl	%	50-130	100	91	92	98	95
P-Terphenyl - d14	%	50-130	99	91	93	110	100
Bromofluorobenzene	%	70-130	108	97.4			
Toluene - d8	%	70-130	128	116			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3017398-3017432 Results are based on dry weight of sample.
VPH results have been corrected for BTEXS contributions.
LEPH & HEPH results have been corrected for PAH contributions.

3017445-3017451 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-03M-1 BV-11BH-03M-3	
				3017398	3017432
Phenol	mg/kg		0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits			
2-Fluorophenol	%	50-150		109	112
2,4,6-Tribromophenol	%	50-150		108	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van) 3017398-3017432 Results relate only to the items tested.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4	MV-Dup
				3017393	3017396
Chloromethane	µg/g	160	0.05	<0.05	<0.05
Vinyl Chloride	µg/g	7.5	0.05	<0.05	<0.05
Bromomethane	µg/g	13	0.05	<0.05	<0.05
Chloroethane	µg/g	65	0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	2000	0.05	<0.05	<0.05
Acetone	µg/g	54000	0.5	<0.5	<0.5
1,1-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
Dichloromethane	µg/g	50	0.05	<0.05	<0.05
Methyl tert-butyl ether (MTBE)	µg/g	700	0.05	<0.05	<0.05
2-Butanone (MEK)	µg/g	110000	0.5	<0.5	<0.5
trans-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	50	0.05	<0.05	<0.05
cis-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
Chloroform	µg/g	50	0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	50	0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	50	0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	50	0.025	<0.025	<0.025
Benzene	µg/g	0.04	0.025	<0.025	<0.025
1,2-Dichloropropane	µg/g	50	0.05	<0.05	<0.05
Trichloroethene	µg/g	0.015	0.05	<0.05	<0.05
Bromodichloromethane	µg/g	18	0.05	<0.05	<0.05
trans-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)	µg/g		0.5	<0.5	<0.5
cis-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	50	0.05	<0.05	<0.05
Toluene	µg/g	2.5	0.025	<0.025	<0.025
Dibromochloromethane	µg/g	26	0.05	<0.05	<0.05
Ethylene Dibromide	µg/g	0.73	0.05	<0.05	<0.05
Tetrachloroethene	µg/g		0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	73	0.05	<0.05	<0.05
Chlorobenzene	µg/g	10	0.05	<0.05	<0.05
Ethylbenzene	µg/g	7	0.025	<0.025	<0.025
m&p-Xylene	µg/g	20	0.025	<0.025	<0.025

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AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4	MV-Dup
				3017393	3017396
Bromoform	µg/g	2200	0.05	<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	9.3	0.05	<0.05	<0.05
o-Xylene	µg/g	20	0.025	<0.025	<0.025
1,3-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	µg/g	10	0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits			
Bromofluorobenzene	%	50-150		91	110
Dibromofluoromethane	%	50-150		110	130
Toluene - d8	%	50-150		110	130

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3017393-3017396 Results are based on dry weight of sample.

Certified By:

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Soil Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Soil Analysis - Ion Analysis with Conversions - Cl & Na

Chloride, Soluble	90	632	11	11	0.0%	< 2	106%	80%	120%	96%		102%	80%	120%
Sodium, Soluble	6812	6923	16	16	0.9%	< 2	97%	80%	120%				80%	120%

Comments: N/A: Not applicable

British Columbia Metals Schedule 4 and 5 (181-588)

Antimony	3017432	0.8	0.5	46.2%	< 0.05	102%	70%	130%	95%	90%	110%	95%	80%	120%
Arsenic	3017432	10.0	9.2	8.3%	< 0.1	110%	70%	130%	109%	90%	110%	109%	80%	120%
Barium	3017432	83.8	74.0	12.4%	< 0.5	98%	70%	130%	103%	90%	110%	103%	80%	120%
Beryllium	3017432	0.24	0.26	8.0%	< 0.02	104%	70%	130%	100%	90%	110%	100%	80%	120%
Boron (Hot Water Soluble)	3020034	0.103	0.097	6.0%	< 0.1				106%	90%	110%	112%	80%	120%
Cadmium	3017432	0.22	0.23	4.4%	< 0.01				98%	90%	110%	98%	80%	120%
Chromium	3017432	29	30	3.4%	< 1	99%	70%	130%	98%	90%	110%	98%	80%	120%
Cobalt	3017432	9.6	9.9	3.1%	< 0.1	92%	70%	130%	98%	90%	110%	98%	80%	120%
Copper	3017432	22.6	23.6	4.3%	< 0.2	90%	70%	130%	97%	90%	110%	97%	80%	120%
Lead	3017432	7.24	4.09	55.6%	< 0.05	92%	70%	130%	97%	90%	110%	97%	80%	120%
Mercury	3017432	0.041	0.043	4.8%	< 0.01	95%	70%	130%	95%	90%	110%	96%	80%	120%
Molybdenum	3017432	0.94	0.92	2.2%	< 0.05	99%	70%	130%	101%	90%	110%	101%	80%	120%
Nickel	3017432	34.9	36.9	5.6%	< 0.5	93%	70%	130%	96%	90%	110%	96%	80%	120%
Selenium	3017432	0.4	0.5	22.2%	< 0.1				99%	90%	110%	113%	80%	120%
Silver	3017432	0.07	0.07	0.0%	< 0.05				97%	90%	110%	97%	80%	120%
Thallium	3017432	0.08	0.08	0.0%	< 0.05				97%	90%	110%	97%	80%	120%
Tin	3017432	0.48	0.46	4.3%	< 0.05				108%	90%	110%	108%	80%	120%
Uranium	3017432	0.55	0.53	3.7%	< 0.05		0%	0%	97%	90%	110%	95%	80%	120%
Vanadium	3017432	39	42	7.4%	< 1	100%	70%	130%	99%	90%	110%	99%	80%	120%
Zinc	3017432	48	51	6.1%	< 1	99%	70%	130%	109%	90%	110%	109%	80%	120%
pH 1:2	3021236	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%

British Columbia Metals Schedule 4 and 5 (181-588)

Antimony	20111 3017432	0.82	0.45	58.0%	< 0.05	102%	70%	130%	95%	90%	110%	95%	80%	120%
Arsenic	20111 -11111	0	0	0.0%	< 0.1	110%	70%	130%	109%	90%	110%	109%	80%	120%
Barium	20111 3017432	83.8	74.0	12.0%	< 0.5	98%	70%	130%	103%	90%	110%	103%	80%	120%
Beryllium	20111 3017432	0.24	0.26	8.0%	< 0.02	104%	70%	130%	100%	90%	110%	100%	80%	120%
Boron (Hot Water Soluble)	20111 3017432	0.2	0.2	0.0%	< 0.1				121%	90%	110%		80%	120%
Cadmium	20111 3017432	0.22	0.23	4.0%	< 0.01	124%			98%	90%	110%	98%	80%	120%
Chromium	20111 3017432	29	30	3.0%	< 1	99%	70%	130%	98%	90%	110%	98%	80%	120%
Cobalt	20111 3017432	9.6	9.9	3.0%	< 0.1	92%	70%	130%	98%	90%	110%	98%	80%	120%
Copper	20111 3017432	22.6	23.6	4.0%	< 0.2	90%	70%	130%	97%	90%	110%	97%	80%	120%
Lead	20111 3017432	7.24	4.09	56.0%	< 0.05	92%	70%	130%	97%	90%	110%	97%	80%	120%
Mercury	20111 3017432	0.04	0.04	0.0%	< 0.01	95%	70%	130%		90%	110%		80%	120%



Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560293
 ATTENTION TO: Amanda Salway

Soil Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Molybdenum	20111	3017432	0.94	0.92	2.0%	< 0.05	99%	70%	130%	101%	90%	110%	101%	80%	120%	
Nickel	20111	3017432	34.9	36.9	6.0%	< 0.5	93%	70%	130%	96%	90%	110%	96%	80%	120%	
Selenium	20111	3017432	0.4	0.5	22.0%	< 0.1	49%			23%	90%	110%	23%	80%	120%	
Silver	20111	3017432	0.07	0.07	0.0%	< 0.05	117%			97%	90%	110%	97%	80%	120%	
Thallium	20111	3017432	0.08	0.08	0.0%	< 0.05	68%			97%	90%	110%	97%	80%	120%	
Tin	20111	3017432	0.48	0.46	4.0%	< 0.05	122%			108%	90%	110%	108%	80%	120%	
Vanadium	20111	3017432	39	42	7.0%	< 1	100%	70%	130%	99%	90%	110%	99%	80%	120%	
Zinc	20111	3017432	48	51	6.0%	< 1	99%	70%	130%	109%	90%	110%	109%	80%	120%	

Certified By: _____

Mari England

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)																
Benzene	134	3020411	<0.005	<0.005	NA	< 0.005	119%	80%	120%	114%	80%	120%	118%	60%	140%	
Toluene	134	3020411	<0.05	<0.05	NA	< 0.05	113%	80%	120%	108%	80%	120%	112%	60%	140%	
Ethylbenzene	134	3020411	<0.01	<0.01	NA	< 0.01	109%	80%	120%	108%	80%	120%	112%	60%	140%	
Xylenes	134	3020411	<0.05	<0.05	NA	< 0.05	109%	80%	120%	107%	80%	120%	111%	60%	140%	
C6 - C10 (F1)	134	3020411	<10	<10	NA	< 10	106%	80%	120%	80%	80%	120%	82%	60%	140%	
C10 - C16 (F2)	876	3019368	20	<10	NA	< 10	113%	80%	120%	108%	80%	120%	104%	60%	140%	
C16 - C34 (F3)	876	3019368	<10	<10	NA	< 10	113%	80%	120%	102%	80%	120%	106%	60%	140%	
C34 - C50 (F4)	876	3019368	<10	<10	NA	< 10	113%	80%	120%	101%	80%	120%	107%	60%	140%	
Volatile Organic Compounds in Soil (180-054)																
Chloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				109%	70%	130%	
Vinyl Chloride	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				109%	70%	130%	
Bromomethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	96%	80%	120%				106%	70%	130%	
Chloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Trichlorofluoromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				111%	70%	130%	
Acetone	1	3020046	<0.5	<0.5	0.0%	< 0.5	109%	80%	120%				129%	70%	130%	
1,1-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				112%	70%	130%	
Dichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				113%	70%	130%	
Methyl tert-butyl ether (MTBE)	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%	
2-Butanone (MEK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	102%	80%	120%				111%	70%	130%	
trans-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				114%	70%	130%	
1,1-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
cis-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Chloroform	1	3020046	<0.05	<0.05	0.0%	< 0.05	91%	80%	120%				104%	70%	130%	
1,2-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%	
1,1,1-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				113%	70%	130%	
Carbon Tetrachloride	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				112%	70%	130%	
Benzene	1	3020046	<0.025	<0.025	0.0%	< 0.025	100%	80%	120%				115%	70%	130%	
1,2-Dichloropropane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Trichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
Bromodichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				116%	70%	130%	
trans-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				112%	70%	130%	
4-Methyl-2-pentanone (MIBK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	104%	80%	120%				112%	70%	130%	
cis-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	70%	130%	
1,1,2-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				114%	70%	130%	
Toluene	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				114%	70%	130%	
Dibromochloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				114%	70%	130%	
Ethylene Dibromide	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Tetrachloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				126%	70%	130%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,1,1,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				114%	70%	130%	
Chlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				109%	70%	130%	
Ethylbenzene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				110%	70%	130%	
m&p-Xylene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				111%	70%	130%	
Bromoform	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				109%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				110%	70%	130%	
1,1,2,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				108%	70%	130%	
o-Xylene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				112%	70%	130%	
1,3-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				105%	70%	130%	
1,4-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				105%	70%	130%	
1,2-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				106%	70%	130%	
1,2,4-Trichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				105%	70%	130%	
Bromofluorobenzene	1	3020046	107	78	31.0%	<	111%	70%	130%				128%	70%	130%	
Dibromofluoromethane	1	3020046	121	80	41.0%	<	111%	70%	130%				129%	70%	130%	
Toluene - d8	1	3020046	125	86	37.0%	<	110%	70%	130%				128%	70%	130%	
Petroleum Hydrocarbons in Soil																
Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%				91%	70%	130%	
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				93%	70%	130%	
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				90%	70%	130%	
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				85%	70%	130%	
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				79%	70%	130%	
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				84%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				85%	70%	130%	
VPH	1	3020046	<10	<10	0.0%	< 10										
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%				105%	50%	130%	
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%				99%	50%	130%	
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%				102%	50%	130%	
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%				94%	50%	130%	
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%				90%	50%	130%	
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%				95%	50%	130%	
Phenanthrene	1	3018978	0.04	0.05	22.0%	< 0.02	98%	80%	120%				92%	60%	130%	
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%				79%	60%	130%	
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				96%	60%	130%	
Pyrene	1	3018978	0.06	0.05	18.0%	< 0.02	100%	80%	120%				98%	60%	130%	
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%				88%	60%	130%	
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				94%	60%	130%	
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%				87%	60%	130%	
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				91%	60%	130%	
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				90%	60%	130%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				90%	60%	130%	
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				88%	60%	130%	
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				93%	60%	130%	
Nitrobenzene - d5	1	3018978	81	90	11.0%	<	100%	80%	120%				100%	50%	130%	
2-Fluorobiphenyl	1	3018978	86	94	9.0%	<	101%	80%	120%				91%	50%	130%	
P-Terphenyl - d14	1	3018978	90	99	10.0%	<	98%	80%	120%				88%	50%	130%	
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25										
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25										
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%				108%	70%	130%	
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%				111%	70%	130%	
Phenolic Compounds in Soil																
Phenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2-Chlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	95%	60%	140%	
2-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	94%	60%	140%	
4-Chloro-3-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	100%	60%	140%	
2,4-Dichlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	95%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	102%	60%	140%	
2,3,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
2,3,4-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	
2,4,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	98%	60%	140%	
2,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
2,3,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	100%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	100%	60%	140%	

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER
Chloride, Soluble	SOIL 0110; SOIL 0120; INST 0330	SHEPPARD 2007; EATON 2005	CONTINUOUS FLOW ANALYZER
Sodium, Soluble	SOIL 0110; SOIL 0120; INST 0140	SHEPPARD 2007; EATON 2005	ICP/OES

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Chloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Vinyl Chloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromomethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichlorofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Acetone	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
2-Butanone (MEK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Carbon Tetrachloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Benzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloropropane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
4-Methyl-2-pentanone (MIBK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dibromochloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylene Dibromide	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Tetrachloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylbenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
m&p-Xylene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Styrene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
o-Xylene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,3-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,4-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2,4-Trichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webeath.agatlabs.com

Chain of Custody Record

Report To:
 Company: Franz Environmental
 Contact: Ammanda Salway
 Address: 308-1080 Munton Rd St.
Vancouver, BC V6B 2T4
 Phone: 604 632-9944 Fax: 604-632-9944
 LSD: _____
 Client Project #: 2090-1103

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/A/E #: _____

Report Information
 1. Name: Ammanda Salway
 Email: asalway@franzbc.com
 2. Name: Viviane Dupois-COPE
 Email: vdcoke@franzbc.com

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: 11V560293
 Notes: _____

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and COME MOXILL	VOCs	BC CSR Schedule II	Routine Potability	Fl-Flz	Salts	PCB's	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
									1			X
									3			X
									1			X
									3			X
									1			X
									3			X
									4			X
									4			X
									4			X
									4			X
									4			X
									2			X

Comments - Site/Sample Info:
 Sample Containment
analyze metals only
(not sample for
MV-1181-01M-2)

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info.
17586	MV-1181-01M-1	Soil	15/12/2011	
390	MV-1181-01M-2			
392	MV-1181-01M-3			
393	MV-1181-01M-4			
394	MV-1181-01M-5			
396	MV-DUP6			
398	BV-1181-03M-1			
400	BV-1181-03M-2			
432	BV-1181-03M-3			
443	BV-1181-03M-4			
444	BV-1181-03M-5			
445	MV-1181-01M-1			

Samples Relinquished by (print name & sign): Ammanda Salway Date: 15/12/2011
Samples Relinquished by (print name & sign): S. Couzens Date: 16-DEC-11 @ 7:56 AM
Samples Relinquished by (print name & sign): _____ Date: _____
Samples Relinquished by (print name & sign): _____ Date: _____

Pink Copy - Client
 Yellow Copy - AGAT
 White Copy - AGAT

Page 1 of 2
 No: 000294



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatiabs.com

Chain of Custody Record

Ph.: 778.452.4000 • Fax: 778.452.7074

Report To:
 Company: same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Regulatory Requirements (Check):
 BC CSR - Soil BC CSR - Water
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: 11N560293

Notes: DEC 15 AM 7:56

Invoice To:
 Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/AFE #: _____

BC CSR BTEX/VPH **BC CSR LEPH/HEPH**
BC CSR Metals **BC CSR Schedule II**
VOCs
BC CSR Potability
CCME F2-F4 **PAH**

Number of Containers
 Preserved (Y/N)
 Hazardous (Y/N)
 Hold for 1 YEAR 60 days

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals	BC CSR Schedule II	BC CSR Potability	CCME F2-F4	PAH	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
3017446	MV-118M-17M-2	SOIL	15/12/2011									2			
7448	MV-118M-17M-3	↓										2			
7449	MV-118M-17M-4	↓										2			
7451	MV-DUP7	↓										2			
Samples Relinquished by (print name & sign): <u>Andrew Samb</u> Date: <u>15/12/2011</u> Samples Relinquished by (print name & sign): <u>S. Collins</u> Date: <u>16-DEC-11 @ 7:56 AM</u> Samples Relinquished by (print name & sign): _____ Date: _____															



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11V560293

RECEIVING BASICS:

*Complete CoC as well where required
 Date and Time: 16-DEC-11 @
 Courier: _____
 Received by: S. Collins
 Relinquished by: In dropoff Area
 Branch Received From: _____
 Company: Franz GW
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg
 CoC Numbers: 295, 294

SAMPLE QUANTITIES:

Coolers: 1 Bottles/Jars: 42 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 15-DEC-11
 Microbiology: Test: _____
 Hydrocarbons: Test: BTEX
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: 22-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 4 + 3 = 3 °C (2) ___ + ___ + ___ = ___ °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) Client requesting "Salts" for analysis
- 2) which test is this?
- 3) _____

Account Project Manager: Melissa Bhees Have they been notified of the above issues: Yes No
 Whom spoken to: Melissa Bhees Date and Time: 16-DEC-11 @ 10:00AM

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560293

SOIL ANALYSIS REVIEWED BY: Andrew Garrard, B.Sc., General Manager

TRACE ORGANICS REVIEWED BY: Craig Stehr, Organics Supervisor

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 21

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

VERSION 2: Report reissued to include sulphide on samples as requested by the client.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-2	MV-11BH-01M-3	MV-11BH-01M-4	BV-11BH-03M-1	BV-11BH-03M-3
				3017390	3017392	3017393	3017398	3017432
Antimony	µg/g	40	0.05	0.52	1.65	0.61	0.39	0.82
Arsenic	µg/g	15	0.1	5.9	4.2	5.5	4.3	10.0
Barium	µg/g	400	0.5	99.1	123	101	74.7	83.8
Beryllium	µg/g	8	0.02	0.34	0.18	0.31	0.21	0.24
Boron (Hot Water Soluble)	µg/g		0.1	0.3	13.7	1.2	0.2	0.2
Cadmium	µg/g		0.01	0.40	0.39	0.30	0.14	0.22
Chromium	µg/g	60	1	38	31	38	27	29
Cobalt	µg/g	300	0.1	12.3	6.6	11.0	8.6	9.6
Copper	µg/g		0.2	32.7	30.2	30.3	37.3	22.6
Lead	µg/g		0.05	6.02	33.6	8.55	3.62	7.24
Mercury	µg/g		0.01	0.04	0.12	0.06	0.03	0.04
Molybdenum	µg/g	40	0.05	1.14	1.03	0.84	0.60	0.94
Nickel	µg/g	500	0.5	45.8	36.5	38.4	30.0	34.9
Selenium	µg/g	10	0.1	0.6	0.3	0.5	0.3	0.4
Silver	µg/g	40	0.05	0.10	0.10	0.09	0.05	0.07
Thallium	µg/g		0.05	0.11	0.06	0.10	0.06	0.08
Tin	µg/g	300	0.05	0.52	4.77	0.93	0.29	0.48
Uranium	µg/g	200	0.05	0.68	0.67	0.73	0.39	0.55
Vanadium	µg/g		1	48	31	49	37	39
Zinc	µg/g		1	67	111	71	47	48
pH 1:2	pH units		0.1	7.2	7.3	7.2	7.5	7.1

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3017390-3017432 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Miscellaneous Techniques-Sulfide

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4 3017393
Sulfide	%		0.01	<0.01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Soil Analysis - Ion Analysis with Conversions - Cl & Na

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	MV-11BH-01M-4	
			RDL	3017393
Chloride, Soluble	mg/L		2	13
Sodium, Soluble	mg/L		2	17
Chloride, Soluble (mg/kg)	mg/kg		2	7
Sodium, Soluble (mg/kg)	mg/kg		2	9

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)					
DATE SAMPLED: Dec 15, 2011		DATE RECEIVED: Dec 16, 2011		DATE REPORTED: Dec 23, 2011	
				SAMPLE TYPE: Soil	
Parameter	Unit	G / S	RDL	BV-11BH-03M-1 BV-11BH-03M-3	
				3017398	3017432
Benzene	mg/kg		0.005	<0.005	<0.005
Toluene	mg/kg		0.05	<0.05	<0.05
Ethylbenzene	mg/kg		0.01	<0.01	<0.01
Xylenes	mg/kg		0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg		10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10
C10 - C16 (F2)	mg/kg		10	<10	<10
C16 - C34 (F3)	mg/kg		10	<10	<10
C34 - C50 (F4)	mg/kg		10	<10	<10
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A
Moisture Content	%		1	17	23
Surrogate	Unit	Acceptable Limits			
Toluene-d8 (BTEX)	%	50-150			
Ethylbenzene-d10 (BTEX)	%	50-150			
o-Terphenyl (F2-F4)	%	50-150			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3017398-3017432 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
				3017445	3017448	3017451
C10 - C16 (F2)	mg/kg		10	<10	<10	<10
C16 - C34 (F3)	mg/kg		10	24	29	29
C34 - C50 (F4)	mg/kg		10	27	25	21
Moisture Content	%		1	23	31	31
Surrogate	Unit	Acceptable Limits				
o-Terphenyl (F2-F4)	%	50-150		103	98	100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)

3017445-3017451 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram has returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 15, 2011		DATE RECEIVED: Dec 16, 2011			DATE REPORTED: Dec 23, 2011			SAMPLE TYPE: Soil	
Parameter	Unit	G / S	RDL	BV-11BH-03M-1	BV-11BH-03M-3	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7	
				3017398	3017432	3017445	3017448	3017451	
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1				
Benzene	µg/g	0.04	0.02	<0.02	<0.02				
Toluene	µg/g	2.5	0.05	<0.05	<0.05				
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05				
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05				
o-Xylene	µg/g	20	0.05	<0.05	<0.05				
Styrene	µg/g	50	0.05	<0.05	<0.05				
VPH	µg/g	200	10	<10	<10				
Naphthalene	µg/g	50	0.01	<0.01	0.01	0.02	<0.01	0.01	
2-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	0.02	<0.01	0.01	
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	0.01	<0.01	<0.01	
Acenaphthylene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluorene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Phenanthrene	µg/g	50	0.02	0.02	<0.02	0.04	<0.02	0.03	
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Fluoranthene	µg/g		0.05	<0.05	<0.05	0.06	<0.05	<0.05	
Pyrene	µg/g	100	0.02	<0.02	<0.02	0.05	<0.02	0.03	
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	0.03	<0.02	0.02	
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	0.02	<0.02	0.02	
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	<25	<25	
HEPH C19-C32	µg/g	5000	25	<25	71	41	56	49	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	BV-11BH-03M-1	BV-11BH-03M-3	MV-11BH-17M-1	MV-11BH-17M-3	MV-DUP7
			3017398	3017432	3017445	3017448	3017451
Nitrobenzene - d5	%	50-130	100	89	83	100	89
2-Fluorobiphenyl	%	50-130	100	91	92	98	95
P-Terphenyl - d14	%	50-130	99	91	93	110	100
Bromofluorobenzene	%	70-130	108	97.4			
Toluene - d8	%	70-130	128	116			

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3017398-3017432 Results are based on dry weight of sample.
VPH results have been corrected for BTEXS contributions.
LEPH & HEPH results have been corrected for PAH contributions.

3017445-3017451 Results are based on dry weight of sample.
LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-03M-1 BV-11BH-03M-3	
				3017398	3017432
Phenol	mg/kg		0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits			
2-Fluorophenol	%	50-150		109	112
2,4,6-Tribromophenol	%	50-150		108	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van) 3017398-3017432 Results relate only to the items tested.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4	MV-Dup
				3017393	3017396
Chloromethane	µg/g	160	0.05	<0.05	<0.05
Vinyl Chloride	µg/g	7.5	0.05	<0.05	<0.05
Bromomethane	µg/g	13	0.05	<0.05	<0.05
Chloroethane	µg/g	65	0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	2000	0.05	<0.05	<0.05
Acetone	µg/g	54000	0.5	<0.5	<0.5
1,1-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
Dichloromethane	µg/g	50	0.05	<0.05	<0.05
Methyl tert-butyl ether (MTBE)	µg/g	700	0.05	<0.05	<0.05
2-Butanone (MEK)	µg/g	110000	0.5	<0.5	<0.5
trans-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	50	0.05	<0.05	<0.05
cis-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05
Chloroform	µg/g	50	0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	50	0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	50	0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	50	0.025	<0.025	<0.025
Benzene	µg/g	0.04	0.025	<0.025	<0.025
1,2-Dichloropropane	µg/g	50	0.05	<0.05	<0.05
Trichloroethene	µg/g	0.015	0.05	<0.05	<0.05
Bromodichloromethane	µg/g	18	0.05	<0.05	<0.05
trans-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)	µg/g		0.5	<0.5	<0.5
cis-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	50	0.05	<0.05	<0.05
Toluene	µg/g	2.5	0.025	<0.025	<0.025
Dibromochloromethane	µg/g	26	0.05	<0.05	<0.05
Ethylene Dibromide	µg/g	0.73	0.05	<0.05	<0.05
Tetrachloroethene	µg/g		0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	73	0.05	<0.05	<0.05
Chlorobenzene	µg/g	10	0.05	<0.05	<0.05
Ethylbenzene	µg/g	7	0.025	<0.025	<0.025
m&p-Xylene	µg/g	20	0.025	<0.025	<0.025

Certified By:



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AGAT WORK ORDER: 11V560293

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 15, 2011

DATE RECEIVED: Dec 16, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-01M-4	MV-Dup
				3017393	3017396
Bromoform	µg/g	2200	0.05	<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	9.3	0.05	<0.05	<0.05
o-Xylene	µg/g	20	0.025	<0.025	<0.025
1,3-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05
1,2,4-Trichlorobenzene	µg/g	10	0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits			
Bromofluorobenzene	%	50-150		91	110
Dibromofluoromethane	%	50-150		110	130
Toluene - d8	%	50-150		110	130

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3017393-3017396 Results are based on dry weight of sample.

Certified By:

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Soil Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Soil Analysis - Ion Analysis with Conversions - Cl & Na

Chloride, Soluble	90	632	11	11	0.0%	< 2	106%	80%	120%	96%		102%	80%	120%
Sodium, Soluble	6812	6923	16	16	0.9%	< 2	97%	80%	120%				80%	120%

Comments: N/A: Not applicable

British Columbia Metals Schedule 4 and 5 (181-588)

Antimony	3017432	0.8	0.5	46.2%	< 0.05	102%	70%	130%	95%	90%	110%	95%	80%	120%
Arsenic	3017432	10.0	9.2	8.3%	< 0.1	110%	70%	130%	109%	90%	110%	109%	80%	120%
Barium	3017432	83.8	74.0	12.4%	< 0.5	98%	70%	130%	103%	90%	110%	103%	80%	120%
Beryllium	3017432	0.24	0.26	8.0%	< 0.02	104%	70%	130%	100%	90%	110%	100%	80%	120%
Boron (Hot Water Soluble)	3020034	0.103	0.097	6.0%	< 0.1				106%	90%	110%	112%	80%	120%
Cadmium	3017432	0.22	0.23	4.4%	< 0.01				98%	90%	110%	98%	80%	120%
Chromium	3017432	29	30	3.4%	< 1	99%	70%	130%	98%	90%	110%	98%	80%	120%
Cobalt	3017432	9.6	9.9	3.1%	< 0.1	92%	70%	130%	98%	90%	110%	98%	80%	120%
Copper	3017432	22.6	23.6	4.3%	< 0.2	90%	70%	130%	97%	90%	110%	97%	80%	120%
Lead	3017432	7.24	4.09	55.6%	< 0.05	92%	70%	130%	97%	90%	110%	97%	80%	120%
Mercury	3017432	0.041	0.043	4.8%	< 0.01	95%	70%	130%	95%	90%	110%	96%	80%	120%
Molybdenum	3017432	0.94	0.92	2.2%	< 0.05	99%	70%	130%	101%	90%	110%	101%	80%	120%
Nickel	3017432	34.9	36.9	5.6%	< 0.5	93%	70%	130%	96%	90%	110%	96%	80%	120%
Selenium	3017432	0.4	0.5	22.2%	< 0.1				99%	90%	110%	113%	80%	120%
Silver	3017432	0.07	0.07	0.0%	< 0.05				97%	90%	110%	97%	80%	120%
Thallium	3017432	0.08	0.08	0.0%	< 0.05				97%	90%	110%	97%	80%	120%
Tin	3017432	0.48	0.46	4.3%	< 0.05				108%	90%	110%	108%	80%	120%
Uranium	3017432	0.55	0.53	3.7%	< 0.05		0%	0%	97%	90%	110%	95%	80%	120%
Vanadium	3017432	39	42	7.4%	< 1	100%	70%	130%	99%	90%	110%	99%	80%	120%
Zinc	3017432	48	51	6.1%	< 1	99%	70%	130%	109%	90%	110%	109%	80%	120%
pH 1:2	3021236	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%

British Columbia Metals Schedule 4 and 5 (181-588)

Antimony	20111 3017432	0.82	0.45	58.0%	< 0.05	102%	70%	130%	95%	90%	110%	95%	80%	120%
Arsenic	20111 -11111	0	0	0.0%	< 0.1	110%	70%	130%	109%	90%	110%	109%	80%	120%
Barium	20111 3017432	83.8	74.0	12.0%	< 0.5	98%	70%	130%	103%	90%	110%	103%	80%	120%
Beryllium	20111 3017432	0.24	0.26	8.0%	< 0.02	104%	70%	130%	100%	90%	110%	100%	80%	120%
Boron (Hot Water Soluble)	20111 3017432	0.2	0.2	0.0%	< 0.1				121%	90%	110%		80%	120%
Cadmium	20111 3017432	0.22	0.23	4.0%	< 0.01	124%			98%	90%	110%	98%	80%	120%
Chromium	20111 3017432	29	30	3.0%	< 1	99%	70%	130%	98%	90%	110%	98%	80%	120%
Cobalt	20111 3017432	9.6	9.9	3.0%	< 0.1	92%	70%	130%	98%	90%	110%	98%	80%	120%
Copper	20111 3017432	22.6	23.6	4.0%	< 0.2	90%	70%	130%	97%	90%	110%	97%	80%	120%
Lead	20111 3017432	7.24	4.09	56.0%	< 0.05	92%	70%	130%	97%	90%	110%	97%	80%	120%
Mercury	20111 3017432	0.04	0.04	0.0%	< 0.01	95%	70%	130%		90%	110%		80%	120%



Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560293
 ATTENTION TO: Amanda Salway

Soil Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Molybdenum	20111	3017432	0.94	0.92	2.0%	< 0.05	99%	70%	130%	101%	90%	110%	101%	80%	120%	
Nickel	20111	3017432	34.9	36.9	6.0%	< 0.5	93%	70%	130%	96%	90%	110%	96%	80%	120%	
Selenium	20111	3017432	0.4	0.5	22.0%	< 0.1	49%			23%	90%	110%	23%	80%	120%	
Silver	20111	3017432	0.07	0.07	0.0%	< 0.05	117%			97%	90%	110%	97%	80%	120%	
Thallium	20111	3017432	0.08	0.08	0.0%	< 0.05	68%			97%	90%	110%	97%	80%	120%	
Tin	20111	3017432	0.48	0.46	4.0%	< 0.05	122%			108%	90%	110%	108%	80%	120%	
Vanadium	20111	3017432	39	42	7.0%	< 1	100%	70%	130%	99%	90%	110%	99%	80%	120%	
Zinc	20111	3017432	48	51	6.0%	< 1	99%	70%	130%	109%	90%	110%	109%	80%	120%	

Certified By: _____

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

Benzene	134	3020411	<0.005	<0.005	NA	< 0.005	119%	80%	120%	114%	80%	120%	118%	60%	140%
Toluene	134	3020411	<0.05	<0.05	NA	< 0.05	113%	80%	120%	108%	80%	120%	112%	60%	140%
Ethylbenzene	134	3020411	<0.01	<0.01	NA	< 0.01	109%	80%	120%	108%	80%	120%	112%	60%	140%
Xylenes	134	3020411	<0.05	<0.05	NA	< 0.05	109%	80%	120%	107%	80%	120%	111%	60%	140%
C6 - C10 (F1)	134	3020411	<10	<10	NA	< 10	106%	80%	120%	80%	80%	120%	82%	60%	140%
C10 - C16 (F2)	876	3019368	20	<10	NA	< 10	113%	80%	120%	108%	80%	120%	104%	60%	140%
C16 - C34 (F3)	876	3019368	<10	<10	NA	< 10	113%	80%	120%	102%	80%	120%	106%	60%	140%
C34 - C50 (F4)	876	3019368	<10	<10	NA	< 10	113%	80%	120%	101%	80%	120%	107%	60%	140%

Volatile Organic Compounds in Soil (180-054)

Chloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				109%	70%	130%
Vinyl Chloride	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				109%	70%	130%
Bromomethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	96%	80%	120%				106%	70%	130%
Chloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Trichlorofluoromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				111%	70%	130%
Acetone	1	3020046	<0.5	<0.5	0.0%	< 0.5	109%	80%	120%				129%	70%	130%
1,1-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				112%	70%	130%
Dichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				113%	70%	130%
Methyl tert-butyl ether (MTBE)	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%
2-Butanone (MEK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	102%	80%	120%				111%	70%	130%
trans-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				114%	70%	130%
1,1-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%
cis-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Chloroform	1	3020046	<0.05	<0.05	0.0%	< 0.05	91%	80%	120%				104%	70%	130%
1,2-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%
1,1,1-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				113%	70%	130%
Carbon Tetrachloride	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				112%	70%	130%
Benzene	1	3020046	<0.025	<0.025	0.0%	< 0.025	100%	80%	120%				115%	70%	130%
1,2-Dichloropropane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Trichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%
Bromodichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				116%	70%	130%
trans-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				112%	70%	130%
4-Methyl-2-pentanone (MIBK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	104%	80%	120%				112%	70%	130%
cis-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	70%	130%
1,1,2-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				114%	70%	130%
Toluene	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				114%	70%	130%
Dibromochloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				114%	70%	130%
Ethylene Dibromide	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%
Tetrachloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				126%	70%	130%

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
1,1,1,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				114%	70%	130%	
Chlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				109%	70%	130%	
Ethylbenzene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				110%	70%	130%	
m&p-Xylene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				111%	70%	130%	
Bromoform	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				109%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				110%	70%	130%	
1,1,2,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				108%	70%	130%	
o-Xylene	1	3020046	<0.025	<0.025	0.0%	< 0.025	102%	80%	120%				112%	70%	130%	
1,3-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				105%	70%	130%	
1,4-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				105%	70%	130%	
1,2-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				106%	70%	130%	
1,2,4-Trichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				105%	70%	130%	
Bromofluorobenzene	1	3020046	107	78	31.0%	<	111%	70%	130%				128%	70%	130%	
Dibromofluoromethane	1	3020046	121	80	41.0%	<	111%	70%	130%				129%	70%	130%	
Toluene - d8	1	3020046	125	86	37.0%	<	110%	70%	130%				128%	70%	130%	
Petroleum Hydrocarbons in Soil																
Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%				91%	70%	130%	
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%				93%	70%	130%	
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				90%	70%	130%	
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				85%	70%	130%	
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				79%	70%	130%	
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				84%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				85%	70%	130%	
VPH	1	3020046	<10	<10	0.0%	< 10										
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%				105%	50%	130%	
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%				99%	50%	130%	
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%				102%	50%	130%	
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%				94%	50%	130%	
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%				90%	50%	130%	
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%				95%	50%	130%	
Phenanthrene	1	3018978	0.04	0.05	22.0%	< 0.02	98%	80%	120%				92%	60%	130%	
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%				79%	60%	130%	
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				96%	60%	130%	
Pyrene	1	3018978	0.06	0.05	18.0%	< 0.02	100%	80%	120%				98%	60%	130%	
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%				88%	60%	130%	
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				94%	60%	130%	
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%				87%	60%	130%	
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				91%	60%	130%	
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				90%	60%	130%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				90%	60%	130%	
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%				88%	60%	130%	
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				93%	60%	130%	
Nitrobenzene - d5	1	3018978	81	90	11.0%	<	100%	80%	120%				100%	50%	130%	
2-Fluorobiphenyl	1	3018978	86	94	9.0%	<	101%	80%	120%				91%	50%	130%	
P-Terphenyl - d14	1	3018978	90	99	10.0%	<	98%	80%	120%				88%	50%	130%	
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25										
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25										
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%				108%	70%	130%	
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%				111%	70%	130%	
Phenolic Compounds in Soil																
Phenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2-Chlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	95%	60%	140%	
2-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	94%	60%	140%	
4-Chloro-3-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	100%	60%	140%	
2,4-Dichlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	95%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	102%	60%	140%	
2,3,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
2,3,4-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	
2,4,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	98%	60%	140%	
2,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
2,3,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	100%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	100%	60%	140%	

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2 Sulfide	INOR-181-6031	BC MOE Lab Manual	PH METER GRAVIMETRIC
Chloride, Soluble	SOIL 0110; SOIL 0120; INST 0330	SHEPPARD 2007; EATON 2005	CONTINUOUS FLOW ANALYZER
Sodium, Soluble	SOIL 0110; SOIL 0120; INST 0140	SHEPPARD 2007; EATON 2005	ICP/OES

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c.d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Chloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Vinyl Chloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromomethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichlorofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Acetone	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
2-Butanone (MEK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Carbon Tetrachloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Benzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloropropane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
4-Methyl-2-pentanone (MIBK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560293

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dibromochloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylene Dibromide	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Tetrachloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylbenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
m&p-Xylene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Styrene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
o-Xylene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,3-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,4-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2,4-Trichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Report To:
 Company: Franz Environmental
 Contact: Amanda Salway
 Address: 308-1080 Munton St.
Vancouver, BC V6B 2T4
 Phone: 604 632-9944 Fax: 604-632-9944
 LSD: _____
 Client Project #: 2090-1103

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/A/E #: _____

Report Information
 1. Name: Amanda Salway
 Email: asalway@franzbc.com
 2. Name: Viviane Dupois-COPE
 Email: vdcoke@franzbc.com

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 3°C
 AGAT Job Number: 11V560293
 Notes: _____

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and COME work	VOCs	BC CSR Schedule II	Routine Potability	Soils	F1-F4	PAH	Phonols (over mon) or formaldehyde	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
										1			X
										3			X
										1			X
										3			X
										1			X
										4			X
										4			X
										4			X
										4			X
										2			X

BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and COME work	VOCs	BC CSR Schedule II	Routine Potability	Soils	F1-F4	PAH	Phonols (over mon) or formaldehyde	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
										1			X
										3			X
										1			X
										3			X
										1			X
										4			X
										4			X
										4			X
										4			X
										2			X

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals and COME work	VOCs	BC CSR Schedule II	Routine Potability	Soils	F1-F4	PAH	Phonols (over mon) or formaldehyde	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
17586	MV-1181-O1M-1	Soil	15/12/2011												1			X
390	MV-1181-O1M-2														3			X
392	MV-1181-O1M-3														1			X
393	MV-1181-O1M-4														3			X
394	MV-1181-O1M-5														1			X
396	MV-DUP6														3			X
398	BV-1181-O3M-1														1			X
400	BV-1181-O3M-2														4			X
432	BV-1181-O3M-3														4			X
443	BV-1181-O3M-4														4			X
444	BV-1181-O3M-5														4			X
445	MV-1181-O1M-1														2			X

Chain of Custody
 Samples Relinquished by (print name & sign): Amanda Salway Date: 15/12/2011
 Samples Relinquished by (print name & sign): S. Couzens Date: 16-DEC-11 @ 7:56 AM
 Samples Relinquished by (print name & sign): _____ Date: _____
 Samples Relinquished by (print name & sign): _____ Date: _____
 Samples Relinquished by (print name & sign): _____ Date: _____



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11V560293

RECEIVING BASICS:

*Complete CoC as well where required
 Date and Time: 16-DEC-11 @
 Courier: _____
 Received by: S. Collins
 Relinquished by: In dropoff Area
 Branch Received From: _____
 Company: Franz GW
 Consultant: _____
 Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
 Completed in full: Yes No If NO, why: _____
 TURNAROUND TIME: Reg
 CoC Numbers: 295, 294

SAMPLE QUANTITIES:

Coolers: 1 Bottles/Jars: 42 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 15-DEC-11
 Microbiology: Test: _____
 Hydrocarbons: Test: BTEX
 Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
 Expiry: _____
 Expiry: 22-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
 International Samples: Yes No
 **Proper tape/labels applied: Yes No
 Hazardous Samples:
 Why hazardous: _____
 Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
 Correct bottles used for testing: Yes No
 If No, explain: _____
 Correct amount of sample for analysis: Yes No
 If No, explain: _____
 Are all samples labeled correctly: Yes No
 If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 4 + 3 = 3 °C (2) ___ + ___ + ___ = ___ °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) Client requesting "Salts" for analysis
- 2) which test is this?
- 3) _____

Account Project Manager: Melissa Bhees Have they been notified of the above issues: Yes No
 Whom spoken to: Melissa Bhees Date and Time: 16-DEC-11 @ 10:00AM

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560614

SOIL ANALYSIS REVIEWED BY: Angela Bond, Technical Reviewer

TRACE ORGANICS REVIEWED BY: Angela Bond, Technical Reviewer

DATE REPORTED: Dec 30, 2011

PAGES (INCLUDING COVER): 20

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

VERSION 1: Sample 3020056 was reprepped and analyzed in duplicate, and the chromium value was confirmed.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-04M-3	MV-11BH-04M-4	MV-11BH-04M-5	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-03M-5	MV-11BH-02M-3	MV-11BH-02M-4
				3020034	3020035	3020036	3020046	3020047	3020049	3020054	3020055
Antimony	µg/g	40	0.05	0.44	0.65	0.63	0.29	0.55	0.65	0.47	0.28
Arsenic	µg/g	15	0.1	4.0	6.5	5.4	4.0	5.1	9.3	4.9	3.1
Barium	µg/g	400	0.5	154	155	149	53.1	125	150	83.3	75.1
Beryllium	µg/g	8	0.02	0.45	0.55	0.50	0.17	0.40	0.53	0.29	0.21
Boron (Hot Water Soluble)	µg/g		0.1	<0.1	0.2	0.2	0.2	0.5	0.4	0.1	<0.1
Cadmium	µg/g		0.01	0.09	0.31	0.31	0.16	0.26	0.28	0.27	0.14
Chromium	µg/g	60	1	50	46	46	44	50	47	34	28
Cobalt	µg/g	300	0.1	10.5	10.3	10.5	6.4	15.7	11.8	10.6	7.7
Copper	µg/g		0.2	16.1	37.9	33.9	18.9	37.9	42.4	25.4	15.8
Lead	µg/g		0.05	10.0	9.55	10.3	5.72	7.24	8.25	4.85	2.74
Mercury	µg/g		0.01	0.04	0.06	0.06	0.03	0.05	0.06	0.04	0.02
Molybdenum	µg/g	40	0.05	1.24	1.91	1.78	0.38	0.82	2.60	1.00	0.49
Nickel	µg/g	500	0.5	32.9	36.0	35.4	23.7	47.0	39.3	39.3	32.1
Selenium	µg/g	10	0.1	0.6	1.0	1.0	0.2	0.7	0.8	0.7	0.3
Silver	µg/g	40	0.05	<0.05	0.11	0.10	<0.05	0.11	0.13	0.08	<0.05
Thallium	µg/g		0.05	0.17	0.16	0.16	0.06	0.12	0.14	0.08	0.06
Tin	µg/g	300	0.05	1.41	1.03	1.19	1.16	0.96	0.94	0.60	0.62
Uranium	µg/g	200	0.05	1.13	2.01	2.15	0.36	0.87	1.80	0.61	0.33
Vanadium	µg/g		1	63	64	61	35	59	64	44	33
Zinc	µg/g		1	73	71	72	38	69	72	55	40
pH 1:2	pH units		0.1	7.9	6.3	6.0	6.2	6.3	6.1	6.2	6.4

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-02M-5 BV-11BH-02M-2 BV-11BH-02M-3		
				3020056	3020066	3020067
Antimony	µg/g	40	0.05	0.79	0.19	0.52
Arsenic	µg/g	15	0.1	7.6	2.8	7.9
Barium	µg/g	400	0.5	87.6	49.0	97.1
Beryllium	µg/g	8	0.02	0.29	0.17	0.34
Boron (Hot Water Soluble)	µg/g		0.1	0.6	<0.1	1.4
Cadmium	µg/g		0.01	0.40	0.12	0.26
Chromium	µg/g	60	1	885	27	43
Cobalt	µg/g	300	0.1	10.5	7.5	12.4
Copper	µg/g		0.2	30.0	14.4	29.5
Lead	µg/g		0.05	12.2	2.75	8.09
Mercury	µg/g		0.01	0.11	0.02	0.07
Molybdenum	µg/g	40	0.05	0.59	0.33	0.72
Nickel	µg/g	500	0.5	35.9	31.9	47.3
Selenium	µg/g	10	0.1	0.4	0.1	0.5
Silver	µg/g	40	0.05	0.07	<0.05	0.09
Thallium	µg/g		0.05	0.09	<0.05	0.09
Tin	µg/g	300	0.05	6.51	0.45	0.82
Uranium	µg/g	200	0.05	0.63	0.26	0.60
Vanadium	µg/g		1	45	42	50
Zinc	µg/g		1	66	36	67
pH 1:2	pH units		0.1	6.4	7.3	6.6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3020034-3020067 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Soil Analysis - Ion Analysis with Conversions - Cl & Na

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3 MV-11BH-02M-5	
				3020046	3020056
Chloride, Soluble	mg/L		2	11	101
Sodium, Soluble	mg/L		2	8	13
Chloride, Soluble (mg/kg)	mg/kg		2	4	45
Sodium, Soluble (mg/kg)	mg/kg		2	3	6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020066	3020067
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	0.37	0.05	<0.05	0.07	0.13	0.09	<0.05	0.13
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg	260	10	16	33	<10	<10	<10	<10
C16 - C34 (F3)	mg/kg	1700	10	<10	<10	186	62	108	20
C34 - C50 (F4)	mg/kg	3300	10	156	<10	115	70	412	65
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	18.2	26.8	25.9	25.5	5.1	26
Surrogate	Unit	Acceptable Limits							
Toluene-d8 (BTEX)	%	50-150			96	94	97	98	98
Ethylbenzene-d10 (BTEX)	%	50-150			107	98	108	113	101
o-Terphenyl (F2-F4)	%	50-150			115	100	103	100	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3020046-3020067 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-08M-1 BV-11BH-08M-4	
				3020058	3020062
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	1700	10	<10	<10
C34 - C50 (F4)	mg/kg	3300	10	<10	35
Moisture Content	%		1	12.6	25.9
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		98	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3020058-3020062 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020058	3020062	3020066	3020067
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
VPH	µg/g	200	10	<10	<10	<10	<10			<10	<10
Naphthalene	µg/g	50	0.01	0.03	0.01	0.05	0.45	<0.01	<0.01	0.02	0.10
2-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.01	0.22	<0.01	<0.01	0.03	0.01
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	0.01	0.01
Acenaphthylene	µg/g		0.01	0.01	<0.01	<0.01	0.41	<0.01	<0.01	<0.01	0.01
Acenaphthene	µg/g		0.01	<0.01	<0.01	0.01	0.25	<0.01	<0.01	<0.01	0.02
Fluorene	µg/g		0.02	<0.02	<0.02	0.02	0.22	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.04	0.02	0.09	1.08	<0.02	<0.02	0.02	0.17
Anthracene	µg/g		0.02	<0.02	<0.02	0.02	0.55	<0.02	<0.02	<0.02	0.04
Fluoranthene	µg/g		0.05	0.05	<0.05	0.05	3.98	<0.05	<0.05	<0.05	0.59
Pyrene	µg/g	100	0.02	0.03	0.02	0.05	4.62	<0.02	<0.02	<0.02	0.63
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	2.83	<0.02	<0.02	<0.02	0.29
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	2.77	<0.05	<0.05	<0.05	0.37
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.70	<0.02	<0.02	<0.02	0.30
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.20	<0.02	<0.02	<0.02	0.17
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	3.00	<0.05	<0.05	<0.05	0.38
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.40	<0.02	<0.02	<0.02	0.18
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.49	<0.02	<0.02	<0.02	0.04
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	1.50	<0.05	<0.05	<0.05	0.19
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	<25	<25	<25	<25	<25
HEPH C19-C32	µg/g	5000	25	26	<25	182	120	<25	<25	64	27

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-02M-2	BV-11BH-02M-3
			3020046	3020047	3020056	3020057	3020058	3020062	3020066	3020067
Nitrobenzene - d5	%	50-130	98	93	89	86	95	87	89	88
2-Fluorobiphenyl	%	50-130	94	96	104	95	96	96	89	97
P-Terphenyl - d14	%	50-130	90	105	114	102	94	96	91	100
Bromofluorobenzene	%	70-130	103	96.8	101	100			106	95
Toluene - d8	%	70-130	124	117	128	117			127	122

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3020046-3020057 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3020058-3020062 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.

3020066-3020067 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020066	3020067
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits							
2-Fluorophenol	%	50-150		112	112	109	109	110	108
2,4,6-Tribromophenol	%	50-150		111	111	108	110	109	107

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van) 3020046-3020067 Results relate only to the items tested.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6
				3020046	3020047	3020056	3020057
Chloromethane	µg/g	160	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	µg/g	7.5	0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	µg/g	13	0.05	<0.05	<0.05	<0.05	<0.05
Chloroethane	µg/g	65	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	2000	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	µg/g	54000	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Dichloromethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
2-Butanone (MEK)	µg/g	110000	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	50	0.025	<0.025	<0.025	<0.025	<0.025
1,2-Dichloropropane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethene	µg/g	0.015	0.05	<0.05	<0.05	<0.05	<0.05
Bromodichloromethane	µg/g	18	0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)	µg/g		0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	µg/g	26	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	µg/g	0.73	0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	73	0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	µg/g	2200	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	9.3	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 16, 2011		DATE RECEIVED: Dec 17, 2011		DATE REPORTED: Dec 30, 2011		SAMPLE TYPE: Soil	
Parameter	Unit	G / S	RDL	MV-11BH-03M-3 3020046	MV-11BH-03M-4 3020047	MV-11BH-02M-5 3020056	MV-11BH-02M-6 3020057
1,2,4-Trichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits					
Bromofluorobenzene	%	50-150		107	98	117	103
Dibromofluoromethane	%	50-150		121	111	128	118
Toluene - d8	%	50-150		125	121	129	123

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3020046-3020057 Results are based on dry weight of sample.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V560614
 ATTENTION TO: Amanda Salway

Soil Analysis															
RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
British Columbia Metals Schedule 4 and 5 (181-588)															
Antimony		3020034	0.44	0.43	2.3%	< 0.05	96%	70%	130%	93%	90%	110%	97%	80%	120%
Arsenic		3020034	4.0	3.8	5.1%	< 0.1	102%	70%	130%	100%	90%	110%	103%	80%	120%
Barium		3020034	154	157	1.9%	< 0.5	89%	70%	130%	97%	90%	110%	97%	80%	120%
Beryllium		3020034	0.45	0.47	4.3%	< 0.02	91%	70%	130%	99%	90%	110%	99%	80%	120%
Boron (Hot Water Soluble)		3020034	< 0.1	< 0.1	0.0%	< 0.1				106%	90%	110%	113%	80%	120%
Cadmium		3020034	0.09	0.1	10.5%	< 0.01				97%	90%	110%	98%	80%	120%
Chromium		3020034	50	51	2.0%	< 1	93%	70%	130%	101%	90%	110%	100%	80%	120%
Cobalt		3020034	10.5	10.9	3.7%	< 0.1	89%	70%	130%	101%	90%	110%	102%	80%	120%
Copper		3020034	16.0	15.9	0.6%	< 0.2	85%	70%	130%	101%	90%	110%	102%	80%	120%
Lead		3020034	10.0	10.4	3.9%	< 0.05	84%	70%	130%	93%	90%	110%	96%	80%	120%
Mercury		3020034	0.04	0.05	22.2%	< 0.01	110%	70%	130%	94%	90%	110%	93%	80%	120%
Molybdenum		3020034	1.24	1.23	0.8%	< 0.05	93%	70%	130%	98%	90%	110%	100%	80%	120%
Nickel		3020034	32.9	33.4	1.5%	< 0.5	89%	70%	130%	101%	90%	110%	101%	80%	120%
Selenium		3020034	0.6	0.6	0.0%	< 0.1					90%	110%	100%	80%	120%
Silver		3020034	< 0.05	< 0.05	0.0%	< 0.05				98%	90%	110%	96%	80%	120%
Thallium		3020034	0.17	0.18	5.7%	< 0.05				96%	90%	110%	99%	80%	120%
Tin		3020034	1.22	1.59	26.3%	< 0.05				105%	90%	110%	99%	80%	120%
Uranium		3020034	1.13	1.08	4.5%	< 0.05		0%	0%	94%	90%	110%	92%	80%	120%
Vanadium		3020034	63	66	4.7%	< 1	95%	70%	130%	102%	90%	110%	101%	80%	120%
Zinc		3020034	73	71	2.8%	< 1	94%	70%	130%	107%	90%	110%	106%	80%	120%
pH 1:2		3020034	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%
Soil Analysis - Ion Analysis with Conversions - Cl & Na															
Chloride, Soluble		94	451	12	10	18.2%	< 2	97%	80%	120%					
Sodium, Soluble		141	7606	1890	1840	2.9%	< 2	102%	80%	120%					

Comments: N/A: Not applicable

Certified By: 

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Petroleum Hydrocarbons in Soil

Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%			91%	70%	130%
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			93%	70%	130%
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			90%	70%	130%
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			85%	70%	130%
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%			79%	70%	130%
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			84%	70%	130%
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			85%	70%	130%
VPH	1	3020046	<10	<10	0.0%	< 10								
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%			105%	50%	130%
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%			90%	50%	130%
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%
Phenanthrene	1	3018978	0.04	0.05	22.2%	< 0.02	98%	80%	120%			92%	60%	130%
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%
Pyrene	1	3018978	0.06	0.05	18.2%	< 0.02	100%	80%	120%			98%	60%	130%
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%
Nitrobenzene - d5	1	3018978	81	90	10.5%	<	100%	80%	120%			100%	50%	130%
2-Fluorobiphenyl	1	3018978	86	94	8.9%	<	101%	80%	120%			91%	50%	130%
P-Terphenyl - d14	1	3018978	90	99	9.5%	<	98%	80%	120%			88%	50%	130%
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25								
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25								
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%			108%	70%	130%
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%			111%	70%	130%

Volatile Organic Compounds in Soil (180-054)

Chloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			109%	70%	130%
Vinyl Chloride	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			109%	70%	130%
Bromomethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	96%	80%	120%			106%	70%	130%
Chloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			115%	70%	130%

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Trichlorofluoromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				111%	70%	130%	
Acetone	1	3020046	<0.5	<0.5	0.0%	< 0.5	109%	80%	120%				129%	70%	130%	
1,1-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				112%	70%	130%	
Dichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				113%	70%	130%	
2-Butanone (MEK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	102%	80%	120%				111%	70%	130%	
trans-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				114%	70%	130%	
1,1-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
cis-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Chloroform	1	3020046	<0.05	<0.05	0.0%	< 0.05	91%	80%	120%				104%	70%	130%	
1,2-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%	
1,1,1-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				113%	70%	130%	
Carbon Tetrachloride	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				112%	70%	130%	
1,2-Dichloropropane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Trichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
Bromodichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				116%	70%	130%	
trans-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				112%	70%	130%	
4-Methyl-2-pentanone (MIBK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	104%	80%	120%				112%	70%	130%	
cis-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	70%	130%	
1,1,2-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				114%	70%	130%	
Dibromochloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				114%	70%	130%	
Ethylene Dibromide	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Tetrachloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				126%	70%	130%	
1,1,1,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				114%	70%	130%	
Chlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				109%	70%	130%	
Bromoform	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				109%	70%	130%	
1,1,2,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				108%	70%	130%	
1,3-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				105%	70%	130%	
1,4-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				105%	70%	130%	
1,2-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				106%	70%	130%	
1,2,4-Trichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				105%	70%	130%	
Bromofluorobenzene	1	3020046	107	78	31.0%	<	111%	70%	130%				128%	70%	130%	
Dibromofluoromethane	1	3020046	121	80	41.0%	<	111%	70%	130%				129%	70%	130%	
Toluene - d8	1	3020046	125	86	37.0%	<	110%	70%	130%				128%	70%	130%	
Phenolic Compounds in Soil																
Phenol	127	3020046	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
2-Chlorophenol	127	3020046	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	97%	60%	140%	
2-Nitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
4-Chloro-3-methylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	92%	60%	140%	
2,4-Dichlorophenol	127	3020046	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	94%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	93%	60%	140%	
2,3,6-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	96%	60%	140%	
2,3,4-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2,4,6-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	97%	60%	140%	
2,4,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	97%	60%	140%	
2,3,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	99%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	99%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	99%	60%	140%	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)																
Benzene	1488	3020066	< 0.005	< 0.005	NA	< 0.005	85%	80%	120%	95%	80%	120%	90%	60%	140%	
Toluene	1488	3020066	< 0.05	< 0.05	NA	< 0.05	82%	80%	120%	97%	80%	120%	87%	60%	140%	
Ethylbenzene	1488	3020066	< 0.01	< 0.01	NA	< 0.01	81%	80%	120%	107%	80%	120%	91%	60%	140%	
Xylenes	1488	3020066	< 0.05	< 0.05	NA	< 0.05	86%	80%	120%	108%	80%	120%	93%	60%	140%	
C6 - C10 (F1)	1488	3020066	< 10	< 10	NA	< 10	102%	80%	120%	108%	80%	120%	117%	60%	140%	
C10 - C16 (F2)	878	3020066	<10	<10	NA	< 10	115%	80%	120%	90%	80%	120%	119%	60%	140%	
C16 - C34 (F3)	878	3020066	108	86	23.0%	< 10	115%	80%	120%	86%	80%	120%	126%	60%	140%	
C34 - C50 (F4)	878	3020066	412	408	1.0%	< 10	115%	80%	120%	86%	80%	120%	130%	60%	140%	

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER
Chloride, Soluble	SOIL 0110; SOIL 0120; INST 0330	SHEPPARD 2007; EATON 2005	CONTINUOUS FLOW ANALYZER
Sodium, Soluble	SOIL 0110; SOIL 0120; INST 0140	SHEPPARD 2007; EATON 2005	ICP/OES

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c.d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Chloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Vinyl Chloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromomethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichlorofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Acetone	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
2-Butanone (MEK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Carbon Tetrachloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloropropane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
4-Methyl-2-pentanone (MIBK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromochloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylene Dibromide	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Tetrachloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1,2,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,3-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,4-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2,4-Trichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
Rush TAT 24 to 48 hours
48 to 72 hours

Report To:

Company: Franz Environmental
Contact: _____
Address: Same as previous
Phone: _____ Fax: _____
LSD: _____
Client Project #: _____

Invoice To:

Same as above Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/A/E #: _____

Report Information

1. Name: _____
Email: Same as previous
2. Name: _____
Email: _____

Regulatory Requirements (Check):

BC CSR - Soil BC CSR - Water
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation Livestock
 CCME Industrial
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Ph: 778.452.4000 - Fax: 778.452.7074

Date Required: _____
Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: 2.5°C
AGAT Job Number: 11V560614

Notes: DEC 17 4:04

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	CGME FI-F4	PAH	Switches	Sodium and chloride	Promis (Chloride-chromate)	CGME FI-F4	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR - 60 days
3020052	MV-11BM-02M-1	soil	16/12/2011	for samples with 5 jars and only metals analysis, hold the other 4 jars													1			
053	MV-11BM-02M-2																5			
054	MV-11BM-02M-3																5			
055	MV-11BM-02M-4																5			
056	MV-11BM-02M-5																5			
057	MV-11BM-02M-6																5			
058	BV-11BM-08M-1																2			
059	BV-11BM-08M-2																2			
060	BV-11BM-08M-3																2			
062	BV-11BM-08M-4																2			
063	BV-11BM-08M-5																2			
066	BV-11BM-08M-6																2			
Samples Relinquished by (print name & sign): _____					Date: <u>16/12/2011</u>	Samples Received by (Print name & sign): <u>S. Correns</u>					Date: <u>17-DEC-11 @ 8:04 AM</u>	Pink Copy - Client								
Samples Relinquished by (print name & sign): _____					Date: _____	Samples Received by (Print name & sign): _____					Date: _____	Yellow Copy - AGAT								
Samples Relinquished by (print name & sign): _____					Date: _____	Samples Received by (Print name & sign): _____					Date: _____	White Copy - AGAT								



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 - Fax: 778.452.7074

Report To:
 Company: Same as previous
 Contact: previous
 Address: _____
 Phone: _____ Fax: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 Rush TAT 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 2.5°C
 AGAT Job Number: 11V560614

Notes: DEC 17 08:04

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE #: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info.	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
3020065	BV-11B1-02M-1	Soil	16/12/2011		X	X	X				4			X
1066	BV-11B1-02M-2				X	X	X				4			X
1067	BV-11B1-02M-3				X	X	X				4			X
1068	BV-11B1-02M-4				X	X	X				4			X
1069	BV-11B1-02M-5				X	X	X				4			X
1070	BV-11B1-02M-6				X	X	X				4			X

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Client Project #: _____

Chain of Custody:
 Samples Relinquished by (print name & sign): _____ Date: 16/12/2011
 Samples Relinquished by (print name & sign): S. Cozart Date: 17-DEC-11 @ 8:04 AM
 Samples Relinquished by (print name & sign): _____ Date: _____

Page 3 of 3
 No: 000298



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11560614

RECEIVING BASICS:

*Complete CoC as well where required
Date and Time: 17-DEC-11 @ 8:04 AM
Courier: _____
Received by: S. Couzens
Relinquished by: In dropoff Area
Branch Received From: _____
Company: Franz Env
Consultant: _____
Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
Completed in full: Yes No If NO, why: _____
TURNAROUND TIME: Reg
COC Numbers: 00296, 297, 298

SAMPLE QUANTITIES:

Coolers: _____ Bottles/Jars: 86 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 16-DEC-11
Microbiology: Test: _____
Hydrocarbons: Test: BTEX
Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
Expiry: _____
Expiry: 23-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
International Samples: Yes No
**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____
Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
Correct bottles used for testing: Yes No
If No, explain: _____
Correct amount of sample for analysis: Yes No
If No, explain: _____
Are all samples labeled correctly: Yes No
If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 2 + 2 = 2 °C (2) 2 + 4 + 2 = 3 °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) _____
- 2) _____
- 3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No
Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560614

SOIL ANALYSIS REVIEWED BY: Angela Bond, Technical Reviewer

TRACE ORGANICS REVIEWED BY: Angela Bond, Technical Reviewer

DATE REPORTED: Dec 30, 2011

PAGES (INCLUDING COVER): 20

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

VERSION 1: Sample 3020056 was reprepped and analyzed in duplicate, and the chromium value was confirmed.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-04M-3	MV-11BH-04M-4	MV-11BH-04M-5	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-03M-5	MV-11BH-02M-3	MV-11BH-02M-4
				3020034	3020035	3020036	3020046	3020047	3020049	3020054	3020055
Antimony	µg/g	40	0.05	0.44	0.65	0.63	0.29	0.55	0.65	0.47	0.28
Arsenic	µg/g	12	0.1	4.0	6.5	5.4	4.0	5.1	9.3	4.9	3.1
Barium	µg/g	2000	0.5	154	155	149	53.1	125	150	83.3	75.1
Beryllium	µg/g	8	0.02	0.45	0.55	0.50	0.17	0.40	0.53	0.29	0.21
Boron (Hot Water Soluble)	µg/g	1.4	0.1	<0.1	0.2	0.2	0.2	0.5	0.4	0.1	<0.1
Cadmium	µg/g	22	0.01	0.09	0.31	0.31	0.16	0.26	0.28	0.27	0.14
Chromium	µg/g	87	1	50	46	46	44	50	47	34	28
Cobalt	µg/g	300	0.1	10.5	10.3	10.5	6.4	15.7	11.8	10.6	7.7
Copper	µg/g	91	0.2	16.1	37.9	33.9	18.9	37.9	42.4	25.4	15.8
Lead	µg/g	600	0.05	10.0	9.55	10.3	5.72	7.24	8.25	4.85	2.74
Mercury	µg/g	50	0.01	0.04	0.06	0.06	0.03	0.05	0.06	0.04	0.02
Molybdenum	µg/g	40	0.05	1.24	1.91	1.78	0.38	0.82	2.60	1.00	0.49
Nickel	µg/g	50	0.5	32.9	36.0	35.4	23.7	47.0	39.3	39.3	32.1
Selenium	µg/g	2.9	0.1	0.6	1.0	1.0	0.2	0.7	0.8	0.7	0.3
Silver	µg/g	40	0.05	<0.05	0.11	0.10	<0.05	0.11	0.13	0.08	<0.05
Thallium	µg/g	1	0.05	0.17	0.16	0.16	0.06	0.12	0.14	0.08	0.06
Tin	µg/g	300	0.05	1.41	1.03	1.19	1.16	0.96	0.94	0.60	0.62
Uranium	µg/g	300	0.05	1.13	2.01	2.15	0.36	0.87	1.80	0.61	0.33
Vanadium	µg/g	130	1	63	64	61	35	59	64	44	33
Zinc	µg/g	360	1	73	71	72	38	69	72	55	40
pH 1:2	pH units		0.1	7.9	6.3	6.0	6.2	6.3	6.1	6.2	6.4

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-02M-5 BV-11BH-02M-2 BV-11BH-02M-3		
				3020056	3020066	3020067
Antimony	µg/g	40	0.05	0.79	0.19	0.52
Arsenic	µg/g	12	0.1	7.6	2.8	7.9
Barium	µg/g	2000	0.5	87.6	49.0	97.1
Beryllium	µg/g	8	0.02	0.29	0.17	0.34
Boron (Hot Water Soluble)	µg/g	1.4	0.1	0.6	<0.1	1.4
Cadmium	µg/g	22	0.01	0.40	0.12	0.26
Chromium	µg/g	87	1	885	27	43
Cobalt	µg/g	300	0.1	10.5	7.5	12.4
Copper	µg/g	91	0.2	30.0	14.4	29.5
Lead	µg/g	600	0.05	12.2	2.75	8.09
Mercury	µg/g	50	0.01	0.11	0.02	0.07
Molybdenum	µg/g	40	0.05	0.59	0.33	0.72
Nickel	µg/g	50	0.5	35.9	31.9	47.3
Selenium	µg/g	2.9	0.1	0.4	0.1	0.5
Silver	µg/g	40	0.05	0.07	<0.05	0.09
Thallium	µg/g	1	0.05	0.09	<0.05	0.09
Tin	µg/g	300	0.05	6.51	0.45	0.82
Uranium	µg/g	300	0.05	0.63	0.26	0.60
Vanadium	µg/g	130	1	45	42	50
Zinc	µg/g	360	1	66	36	67
pH 1:2	pH units		0.1	6.4	7.3	6.6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)
 3020034-3020067 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Soil Analysis - Ion Analysis with Conversions - Cl & Na

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3 MV-11BH-02M-5	
				3020046	3020056
Chloride, Soluble	mg/L		2	11	101
Sodium, Soluble	mg/L		2	8	13
Chloride, Soluble (mg/kg)	mg/kg		2	4	45
Sodium, Soluble (mg/kg)	mg/kg		2	3	6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-02M-2	BV-11BH-02M-3	
				3020046	3020047	3020056	3020057	3020066	3020067	
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	mg/kg	0.37	0.05	<0.05	0.07	0.13	0.09	<0.05	0.13	
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10	
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	
C10 - C16 (F2)	mg/kg	260	10	16	33	<10	<10	<10	<10	
C16 - C34 (F3)	mg/kg	1700	10	<10	<10	186	62	108	20	
C34 - C50 (F4)	mg/kg	3300	10	156	<10	115	70	412	65	
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	
Moisture Content	%		1	18.2	26.8	25.9	25.5	5.1	26	
Surrogate	Unit	Acceptable Limits								
Toluene-d8 (BTEX)	%	50-150			96	94	97	98	98	98
Ethylbenzene-d10 (BTEX)	%	50-150			107	98	108	113	97	101
o-Terphenyl (F2-F4)	%	50-150			115	100	103	100	98	97

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3020046-3020067 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-08M-1 BV-11BH-08M-4	
				3020058	3020062
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	1700	10	<10	<10
C34 - C50 (F4)	mg/kg	3300	10	<10	35
Moisture Content	%		1	12.6	25.9
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		98	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3020058-3020062 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020058	3020062	3020066	3020067
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
VPH	µg/g	200	10	<10	<10	<10	<10			<10	<10
Naphthalene	µg/g	50	0.01	0.03	0.01	0.05	0.45	<0.01	<0.01	0.02	0.10
2-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.01	0.22	<0.01	<0.01	0.03	0.01
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	0.01	0.01
Acenaphthylene	µg/g		0.01	0.01	<0.01	<0.01	0.41	<0.01	<0.01	<0.01	0.01
Acenaphthene	µg/g		0.01	<0.01	<0.01	0.01	0.25	<0.01	<0.01	<0.01	0.02
Fluorene	µg/g		0.02	<0.02	<0.02	0.02	0.22	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.04	0.02	0.09	1.08	<0.02	<0.02	0.02	0.17
Anthracene	µg/g		0.02	<0.02	<0.02	0.02	0.55	<0.02	<0.02	<0.02	0.04
Fluoranthene	µg/g		0.05	0.05	<0.05	0.05	3.98	<0.05	<0.05	<0.05	0.59
Pyrene	µg/g	100	0.02	0.03	0.02	0.05	4.62	<0.02	<0.02	<0.02	0.63
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	2.83	<0.02	<0.02	<0.02	0.29
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	2.77	<0.05	<0.05	<0.05	0.37
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.70	<0.02	<0.02	<0.02	0.30
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.20	<0.02	<0.02	<0.02	0.17
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	3.00	<0.05	<0.05	<0.05	0.38
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.40	<0.02	<0.02	<0.02	0.18
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.49	<0.02	<0.02	<0.02	0.04
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	1.50	<0.05	<0.05	<0.05	0.19
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	<25	<25	<25	<25	<25
HEPH C19-C32	µg/g	5000	25	26	<25	182	120	<25	<25	64	27

Certified By:



Certificate of Analysis

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-02M-2	BV-11BH-02M-3
			3020046	3020047	3020056	3020057	3020058	3020062	3020066	3020067
Nitrobenzene - d5	%	50-130	98	93	89	86	95	87	89	88
2-Fluorobiphenyl	%	50-130	94	96	104	95	96	96	89	97
P-Terphenyl - d14	%	50-130	90	105	114	102	94	96	91	100
Bromofluorobenzene	%	70-130	103	96.8	101	100			106	95
Toluene - d8	%	70-130	124	117	128	117			127	122

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3020046-3020057 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3020058-3020062 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.

3020066-3020067 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020066	3020067
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits							
2-Fluorophenol	%	50-150		112	112	109	109	110	108
2,4,6-Tribromophenol	%	50-150		111	111	108	110	109	107

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
3020046-3020067 Results relate only to the items tested.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6
				3020046	3020047	3020056	3020057
Chloromethane	µg/g	160	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	µg/g	7.5	0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	µg/g	13	0.05	<0.05	<0.05	<0.05	<0.05
Chloroethane	µg/g	65	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	2000	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	µg/g	54000	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Dichloromethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
2-Butanone (MEK)	µg/g	110000	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	50	0.025	<0.025	<0.025	<0.025	<0.025
1,2-Dichloropropane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethene	µg/g	0.015	0.05	<0.05	<0.05	<0.05	<0.05
Bromodichloromethane	µg/g	18	0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)	µg/g		0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	µg/g	26	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	µg/g	0.73	0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	73	0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	µg/g	2200	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	9.3	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05

Certified By:



Certificate of Analysis

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6
				3020046	3020047	3020056	3020057
1,2,4-Trichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits					
Bromofluorobenzene	%	50-150		107	98	117	103
Dibromofluoromethane	%	50-150		121	111	128	118
Toluene - d8	%	50-150		125	121	129	123

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3020046-3020057 Results are based on dry weight of sample.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V560614
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony		3020034	0.44	0.43	2.3%	< 0.05	96%	70%	130%	93%	90%	110%	97%	80%	120%	
Arsenic		3020034	4.0	3.8	5.1%	< 0.1	102%	70%	130%	100%	90%	110%	103%	80%	120%	
Barium		3020034	154	157	1.9%	< 0.5	89%	70%	130%	97%	90%	110%	97%	80%	120%	
Beryllium		3020034	0.45	0.47	4.3%	< 0.02	91%	70%	130%	99%	90%	110%	99%	80%	120%	
Boron (Hot Water Soluble)		3020034	< 0.1	< 0.1	0.0%	< 0.1				106%	90%	110%	113%	80%	120%	
Cadmium		3020034	0.09	0.1	10.5%	< 0.01				97%	90%	110%	98%	80%	120%	
Chromium		3020034	50	51	2.0%	< 1	93%	70%	130%	101%	90%	110%	100%	80%	120%	
Cobalt		3020034	10.5	10.9	3.7%	< 0.1	89%	70%	130%	101%	90%	110%	102%	80%	120%	
Copper		3020034	16.0	15.9	0.6%	< 0.2	85%	70%	130%	101%	90%	110%	102%	80%	120%	
Lead		3020034	10.0	10.4	3.9%	< 0.05	84%	70%	130%	93%	90%	110%	96%	80%	120%	
Mercury		3020034	0.04	0.05	22.2%	< 0.01	110%	70%	130%	94%	90%	110%	93%	80%	120%	
Molybdenum		3020034	1.24	1.23	0.8%	< 0.05	93%	70%	130%	98%	90%	110%	100%	80%	120%	
Nickel		3020034	32.9	33.4	1.5%	< 0.5	89%	70%	130%	101%	90%	110%	101%	80%	120%	
Selenium		3020034	0.6	0.6	0.0%	< 0.1					90%	110%	100%	80%	120%	
Silver		3020034	< 0.05	< 0.05	0.0%	< 0.05				98%	90%	110%	96%	80%	120%	
Thallium		3020034	0.17	0.18	5.7%	< 0.05				96%	90%	110%	99%	80%	120%	
Tin		3020034	1.22	1.59	26.3%	< 0.05				105%	90%	110%	99%	80%	120%	
Uranium		3020034	1.13	1.08	4.5%	< 0.05		0%	0%	94%	90%	110%	92%	80%	120%	
Vanadium		3020034	63	66	4.7%	< 1	95%	70%	130%	102%	90%	110%	101%	80%	120%	
Zinc		3020034	73	71	2.8%	< 1	94%	70%	130%	107%	90%	110%	106%	80%	120%	
pH 1:2		3020034	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%	
Soil Analysis - Ion Analysis with Conversions - Cl & Na																
Chloride, Soluble		94	451	12	10	18.2%	< 2	97%	80%	120%						
Sodium, Soluble		141	7606	1890	1840	2.9%	< 2	102%	80%	120%						

Comments: N/A: Not applicable

Certified By:



Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Petroleum Hydrocarbons in Soil															
Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%			91%	70%	130%	
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			93%	70%	130%	
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			90%	70%	130%	
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			85%	70%	130%	
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%			79%	70%	130%	
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			84%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			85%	70%	130%	
VPH	1	3020046	<10	<10	0.0%	< 10									
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%			105%	50%	130%	
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%	
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%	
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%	
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%			90%	50%	130%	
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%	
Phenanthrene	1	3018978	0.04	0.05	22.2%	< 0.02	98%	80%	120%			92%	60%	130%	
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%	
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%	
Pyrene	1	3018978	0.06	0.05	18.2%	< 0.02	100%	80%	120%			98%	60%	130%	
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%	
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%	
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%	
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%	
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%	
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%	
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%	
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%	
Nitrobenzene - d5	1	3018978	81	90	10.5%	<	100%	80%	120%			100%	50%	130%	
2-Fluorobiphenyl	1	3018978	86	94	8.9%	<	101%	80%	120%			91%	50%	130%	
P-Terphenyl - d14	1	3018978	90	99	9.5%	<	98%	80%	120%			88%	50%	130%	
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25									
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25									
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%			108%	70%	130%	
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%			111%	70%	130%	
Volatile Organic Compounds in Soil (180-054)															
Chloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			109%	70%	130%	
Vinyl Chloride	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			109%	70%	130%	
Bromomethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	96%	80%	120%			106%	70%	130%	
Chloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			115%	70%	130%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Trichlorofluoromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				111%	70%	130%	
Acetone	1	3020046	<0.5	<0.5	0.0%	< 0.5	109%	80%	120%				129%	70%	130%	
1,1-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				112%	70%	130%	
Dichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				113%	70%	130%	
2-Butanone (MEK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	102%	80%	120%				111%	70%	130%	
trans-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				114%	70%	130%	
1,1-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
cis-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Chloroform	1	3020046	<0.05	<0.05	0.0%	< 0.05	91%	80%	120%				104%	70%	130%	
1,2-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%	
1,1,1-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				113%	70%	130%	
Carbon Tetrachloride	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				112%	70%	130%	
1,2-Dichloropropane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Trichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
Bromodichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				116%	70%	130%	
trans-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				112%	70%	130%	
4-Methyl-2-pentanone (MIBK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	104%	80%	120%				112%	70%	130%	
cis-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	70%	130%	
1,1,2-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				114%	70%	130%	
Dibromochloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				114%	70%	130%	
Ethylene Dibromide	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Tetrachloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				126%	70%	130%	
1,1,1,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				114%	70%	130%	
Chlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				109%	70%	130%	
Bromoform	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				109%	70%	130%	
1,1,2,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				108%	70%	130%	
1,3-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				105%	70%	130%	
1,4-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				105%	70%	130%	
1,2-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				106%	70%	130%	
1,2,4-Trichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				105%	70%	130%	
Bromofluorobenzene	1	3020046	107	78	31.0%	<	111%	70%	130%				128%	70%	130%	
Dibromofluoromethane	1	3020046	121	80	41.0%	<	111%	70%	130%				129%	70%	130%	
Toluene - d8	1	3020046	125	86	37.0%	<	110%	70%	130%				128%	70%	130%	
Phenolic Compounds in Soil																
Phenol	127	3020046	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
2-Chlorophenol	127	3020046	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	97%	60%	140%	
2-Nitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
4-Chloro-3-methylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	92%	60%	140%	
2,4-Dichlorophenol	127	3020046	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	94%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	93%	60%	140%	
2,3,6-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	96%	60%	140%	
2,3,4-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2,4,6-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	97%	60%	140%	
2,4,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	97%	60%	140%	
2,3,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	99%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	99%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	99%	60%	140%	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)																
Benzene	1488	3020066	< 0.005	< 0.005	NA	< 0.005	85%	80%	120%	95%	80%	120%	90%	60%	140%	
Toluene	1488	3020066	< 0.05	< 0.05	NA	< 0.05	82%	80%	120%	97%	80%	120%	87%	60%	140%	
Ethylbenzene	1488	3020066	< 0.01	< 0.01	NA	< 0.01	81%	80%	120%	107%	80%	120%	91%	60%	140%	
Xylenes	1488	3020066	< 0.05	< 0.05	NA	< 0.05	86%	80%	120%	108%	80%	120%	93%	60%	140%	
C6 - C10 (F1)	1488	3020066	< 10	< 10	NA	< 10	102%	80%	120%	108%	80%	120%	117%	60%	140%	
C10 - C16 (F2)	878	3020066	<10	<10	NA	< 10	115%	80%	120%	90%	80%	120%	119%	60%	140%	
C16 - C34 (F3)	878	3020066	108	86	23.0%	< 10	115%	80%	120%	86%	80%	120%	126%	60%	140%	
C34 - C50 (F4)	878	3020066	412	408	1.0%	< 10	115%	80%	120%	86%	80%	120%	130%	60%	140%	

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER
Chloride, Soluble	SOIL 0110; SOIL 0120; INST 0330	SHEPPARD 2007; EATON 2005	CONTINUOUS FLOW ANALYZER
Sodium, Soluble	SOIL 0110; SOIL 0120; INST 0140	SHEPPARD 2007; EATON 2005	ICP/OES

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c.d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Chloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Vinyl Chloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromomethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichlorofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Acetone	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
2-Butanone (MEK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Carbon Tetrachloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloropropane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
4-Methyl-2-pentanone (MIBK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromochloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylene Dibromide	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Tetrachloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,3-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,4-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2,4-Trichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph: 778.452.4000 - Fax: 778.452.7074

Report To:

Company: Franz Environmental
Contact: _____
Address: Same as previous
Phone: _____ Fax: _____
LSD: _____
Client Project #: _____

Invoice To:

Same as above Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/A/E #: _____

Report Information

1. Name: _____
Email: Same as previous
2. Name: _____
Email: _____

Regulatory Requirements (Check):

- BC CSR - Soil BC CSR - Water
- Agricultural Drinking Water
- Industrial Aquatic Life
- Urban/Park Irrigation
- Commercial Livestock
- CCME
- Drinking Water Industrial
- Residential/Park Drinking Water
- Commercial FWAL

Comments - Site/Sample Info.

Sample Containment

for samples with 5 jars and only metals analysis, hold the other 4 jars

Report Format

- Single Sample per page
- Multiple Samples per page
- Excel Format Included

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
- Rush TAT 24 to 48 hours
- 48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: 2.5°C
AGAT Job Number: 11V560614

Notes: DEC 17 4:04

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	CGME FI-F4	PAN	Switches	Sodium and chloride	PROMIS (Chloride, Chloride)	CGME FI-F4	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR - 60 days
3020052	MV-11BM-02M-1	soil	16/12/2011													1			
053	MV-11BM-02M-2															5			
054	MV-11BM-02M-3															5			
055	MV-11BM-02M-4															5			
056	MV-11BM-02M-5															5			
057	MV-11BM-02M-6															5			
058	BV-11BM-08M-1															2			
059	BV-11BM-08M-2															2			
060	BV-11BM-08M-3															2			
062	BV-11BM-08M-4															2			
063	BV-11BM-08M-5															2			
066	BV-11BM-08M-6															2			
Samples Relinquished by (print name & sign): _____																			
Date: <u>16/12/2011</u>																			
Samples Relinquished by (print name & sign): <u>S. CORENS</u>																			
Date: <u>17-DEC-11 @ 8:04 AM</u>																			
Samples Relinquished by (print name & sign): _____																			
Date: _____																			
Samples Relinquished by (print name & sign): _____																			
Date: _____																			
Pink Copy - Client															Page <u>2</u> of <u>3</u>				
Yellow Copy - AGAT															NO: <u>000297</u>				
White Copy - AGAT																			



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 - Fax: 778.452.7074

Report To:
 Company: Same as previous
 Contact: previous
 Address: _____
 Phone: _____ Fax: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 2.5°C
 AGAT Job Number: 11V560614

Notes: DEC 17 08:04

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE #: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info.	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
3020065	BV-11B1-02M-1	Soil	16/12/2011		X	X	X				4			X
1066	BV-11B1-02M-2				X	X	X				4			X
1067	BV-11B1-02M-3				X	X	X				4			X
1068	BV-11B1-02M-4				X	X	X				4			X
1069	BV-11B1-02M-5				X	X	X				4			X
1070	BV-11B1-02M-6				X	X	X				4			X

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Client Project #: _____

Report Information:
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Chain of Custody:
 Samples Relinquished by (print name & sign): _____ Date: 16/12/2011
 Samples Relinquished by (print name & sign): S. Cozart Date: 17-DEC-11 @ 8:04 AM
 Samples Relinquished by (print name & sign): _____ Date: _____



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11560614

RECEIVING BASICS:

*Complete CoC as well where required
Date and Time: 17-DEC-11 @ 8:04 AM
Courier: _____
Received by: S. Couzens
Relinquished by: In dropoff Area
Branch Received From: _____
Company: Franz Env
Consultant: _____
Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
Completed in full: Yes No If NO, why: _____
TURNAROUND TIME: Reg
COC Numbers: 00296, 297, 298

SAMPLE QUANTITIES:

Coolers: _____ Bottles/Jars: 86 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 16-DEC-11
Microbiology: Test: _____
Hydrocarbons: Test: BTEX
Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
Expiry: _____
Expiry: 23-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
International Samples: Yes No
**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____
Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
Correct bottles used for testing: Yes No
If No, explain: _____
Correct amount of sample for analysis: Yes No
If No, explain: _____
Are all samples labeled correctly: Yes No
If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 2 + 2 = 2 °C (2) 2 + 4 + 2 = 3 °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) _____
- 2) _____
- 3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No
Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560614

SOIL ANALYSIS REVIEWED BY: Andrew Garrard, B.Sc., General Manager

TRACE ORGANICS REVIEWED BY: Angela Bond, Technical Reviewer

DATE REPORTED: Dec 30, 2011

PAGES (INCLUDING COVER): 21

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

VERSION 2: Sample 3020056 was reprepared and analyzed in duplicate, and the chromium value was confirmed.

Report reissued to include sulphide on samples as requested by the client.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-04M-3	MV-11BH-04M-4	MV-11BH-04M-5	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-03M-5	MV-11BH-02M-3	MV-11BH-02M-4
				3020034	3020035	3020036	3020046	3020047	3020049	3020054	3020055
Antimony	µg/g	40	0.05	0.44	0.65	0.63	0.29	0.55	0.65	0.47	0.28
Arsenic	µg/g	15	0.1	4.0	6.5	5.4	4.0	5.1	9.3	4.9	3.1
Barium	µg/g	400	0.5	154	155	149	53.1	125	150	83.3	75.1
Beryllium	µg/g	8	0.02	0.45	0.55	0.50	0.17	0.40	0.53	0.29	0.21
Boron (Hot Water Soluble)	µg/g		0.1	<0.1	0.2	0.2	0.2	0.5	0.4	0.1	<0.1
Cadmium	µg/g		0.01	0.09	0.31	0.31	0.16	0.26	0.28	0.27	0.14
Chromium	µg/g	60	1	50	46	46	44	50	47	34	28
Cobalt	µg/g	300	0.1	10.5	10.3	10.5	6.4	15.7	11.8	10.6	7.7
Copper	µg/g		0.2	16.1	37.9	33.9	18.9	37.9	42.4	25.4	15.8
Lead	µg/g		0.05	10.0	9.55	10.3	5.72	7.24	8.25	4.85	2.74
Mercury	µg/g		0.01	0.04	0.06	0.06	0.03	0.05	0.06	0.04	0.02
Molybdenum	µg/g	40	0.05	1.24	1.91	1.78	0.38	0.82	2.60	1.00	0.49
Nickel	µg/g	500	0.5	32.9	36.0	35.4	23.7	47.0	39.3	39.3	32.1
Selenium	µg/g	10	0.1	0.6	1.0	1.0	0.2	0.7	0.8	0.7	0.3
Silver	µg/g	40	0.05	<0.05	0.11	0.10	<0.05	0.11	0.13	0.08	<0.05
Thallium	µg/g		0.05	0.17	0.16	0.16	0.06	0.12	0.14	0.08	0.06
Tin	µg/g	300	0.05	1.41	1.03	1.19	1.16	0.96	0.94	0.60	0.62
Uranium	µg/g	200	0.05	1.13	2.01	2.15	0.36	0.87	1.80	0.61	0.33
Vanadium	µg/g		1	63	64	61	35	59	64	44	33
Zinc	µg/g		1	73	71	72	38	69	72	55	40
pH 1:2	pH units		0.1	7.9	6.3	6.0	6.2	6.3	6.1	6.2	6.4

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-02M-5	BV-11BH-02M-2	BV-11BH-02M-3
				3020056	3020066	3020067
Antimony	µg/g	40	0.05	0.79	0.19	0.52
Arsenic	µg/g	15	0.1	7.6	2.8	7.9
Barium	µg/g	400	0.5	87.6	49.0	97.1
Beryllium	µg/g	8	0.02	0.29	0.17	0.34
Boron (Hot Water Soluble)	µg/g		0.1	0.6	<0.1	1.4
Cadmium	µg/g		0.01	0.40	0.12	0.26
Chromium	µg/g	60	1	885	27	43
Cobalt	µg/g	300	0.1	10.5	7.5	12.4
Copper	µg/g		0.2	30.0	14.4	29.5
Lead	µg/g		0.05	12.2	2.75	8.09
Mercury	µg/g		0.01	0.11	0.02	0.07
Molybdenum	µg/g	40	0.05	0.59	0.33	0.72
Nickel	µg/g	500	0.5	35.9	31.9	47.3
Selenium	µg/g	10	0.1	0.4	0.1	0.5
Silver	µg/g	40	0.05	0.07	<0.05	0.09
Thallium	µg/g		0.05	0.09	<0.05	0.09
Tin	µg/g	300	0.05	6.51	0.45	0.82
Uranium	µg/g	200	0.05	0.63	0.26	0.60
Vanadium	µg/g		1	45	42	50
Zinc	µg/g		1	66	36	67
pH 1:2	pH units		0.1	6.4	7.3	6.6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3020034-3020067 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Miscellaneous Techniques-Sulfide

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3 MV-11BH-02M-5	
				3020046	3020056
Sulfide	%		0.01	<0.01	0.11

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
CANADA V5J 0B6
TEL (778)452-4000
FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Soil Analysis - Ion Analysis with Conversions - Cl & Na

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3 MV-11BH-02M-5	
				3020046	3020056
Chloride, Soluble	mg/L		2	11	101
Sodium, Soluble	mg/L		2	8	13
Chloride, Soluble (mg/kg)	mg/kg		2	4	45
Sodium, Soluble (mg/kg)	mg/kg		2	3	6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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CANADA V5J 0B6
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-02M-2	BV-11BH-02M-3	
				3020046	3020047	3020056	3020057	3020066	3020067	
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	mg/kg	0.37	0.05	<0.05	0.07	0.13	0.09	<0.05	0.13	
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10	
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	
C10 - C16 (F2)	mg/kg	260	10	16	33	<10	<10	<10	<10	
C16 - C34 (F3)	mg/kg	1700	10	<10	<10	186	62	108	20	
C34 - C50 (F4)	mg/kg	3300	10	156	<10	115	70	412	65	
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	
Moisture Content	%		1	18.2	26.8	25.9	25.5	5.1	26	
Surrogate	Unit	Acceptable Limits								
Toluene-d8 (BTEX)	%	50-150			96	94	97	98	98	98
Ethylbenzene-d10 (BTEX)	%	50-150			107	98	108	113	97	101
o-Terphenyl (F2-F4)	%	50-150			115	100	103	100	98	97

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3020046-3020067 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (F2-F4) in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-08M-1 BV-11BH-08M-4	
				3020058	3020062
C10 - C16 (F2)	mg/kg	260	10	<10	<10
C16 - C34 (F3)	mg/kg	1700	10	<10	<10
C34 - C50 (F4)	mg/kg	3300	10	<10	35
Moisture Content	%		1	12.6	25.9
Surrogate	Unit	Acceptable Limits			
o-Terphenyl (F2-F4)	%	50-150		98	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3020058-3020062 Results are based on the dry weight of the sample.

The C6-C10 (F1) fraction is calculated using toluene response factor.

The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).

Quality control data is available upon request.

Assistance in the interpretation of data is available upon request.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

The chromatogram has returned to baseline by the retention time of nC50.

Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020058	3020062	3020066	3020067
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
VPH	µg/g	200	10	<10	<10	<10	<10			<10	<10
Naphthalene	µg/g	50	0.01	0.03	0.01	0.05	0.45	<0.01	<0.01	0.02	0.10
2-Methylnaphthalene	µg/g		0.01	0.01	<0.01	0.01	0.22	<0.01	<0.01	0.03	0.01
1-Methylnaphthalene	µg/g		0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	0.01	0.01
Acenaphthylene	µg/g		0.01	0.01	<0.01	<0.01	0.41	<0.01	<0.01	<0.01	0.01
Acenaphthene	µg/g		0.01	<0.01	<0.01	0.01	0.25	<0.01	<0.01	<0.01	0.02
Fluorene	µg/g		0.02	<0.02	<0.02	0.02	0.22	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.04	0.02	0.09	1.08	<0.02	<0.02	0.02	0.17
Anthracene	µg/g		0.02	<0.02	<0.02	0.02	0.55	<0.02	<0.02	<0.02	0.04
Fluoranthene	µg/g		0.05	0.05	<0.05	0.05	3.98	<0.05	<0.05	<0.05	0.59
Pyrene	µg/g	100	0.02	0.03	0.02	0.05	4.62	<0.02	<0.02	<0.02	0.63
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	2.83	<0.02	<0.02	<0.02	0.29
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	2.77	<0.05	<0.05	<0.05	0.37
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.70	<0.02	<0.02	<0.02	0.30
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.20	<0.02	<0.02	<0.02	0.17
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	3.00	<0.05	<0.05	<0.05	0.38
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	1.40	<0.02	<0.02	<0.02	0.18
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.49	<0.02	<0.02	<0.02	0.04
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	1.50	<0.05	<0.05	<0.05	0.19
LEPH C10-C19	µg/g	2000	25	<25	<25	<25	<25	<25	<25	<25	<25
HEPH C19-C32	µg/g	5000	25	26	<25	182	120	<25	<25	64	27

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-08M-1	BV-11BH-08M-4	BV-11BH-02M-2	BV-11BH-02M-3
			3020046	3020047	3020056	3020057	3020058	3020062	3020066	3020067
Nitrobenzene - d5	%	50-130	98	93	89	86	95	87	89	88
2-Fluorobiphenyl	%	50-130	94	96	104	95	96	96	89	97
P-Terphenyl - d14	%	50-130	90	105	114	102	94	96	91	100
Bromofluorobenzene	%	70-130	103	96.8	101	100			106	95
Toluene - d8	%	70-130	124	117	128	117			127	122

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3020046-3020057 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

3020058-3020062 Results are based on dry weight of sample.
 LEPH & HEPH results have been corrected for PAH contributions.

3020066-3020067 Results are based on dry weight of sample.
 VPH results have been corrected for BTEXS contributions.
 LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6	BV-11BH-02M-2	BV-11BH-02M-3
				3020046	3020047	3020056	3020057	3020066	3020067
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits							
2-Fluorophenol	%	50-150		112	112	109	109	110	108
2,4,6-Tribromophenol	%	50-150		111	111	108	110	109	107

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
3020046-3020067 Results relate only to the items tested.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
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<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6
				3020046	3020047	3020056	3020057
Chloromethane	µg/g	160	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	µg/g	7.5	0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	µg/g	13	0.05	<0.05	<0.05	<0.05	<0.05
Chloroethane	µg/g	65	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	2000	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	µg/g	54000	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Dichloromethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
2-Butanone (MEK)	µg/g	110000	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	50	0.025	<0.025	<0.025	<0.025	<0.025
1,2-Dichloropropane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethene	µg/g	0.015	0.05	<0.05	<0.05	<0.05	<0.05
Bromodichloromethane	µg/g	18	0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
4-Methyl-2-pentanone (MIBK)	µg/g		0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	µg/g	26	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	µg/g	0.73	0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	73	0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	µg/g	2200	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	9.3	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Volatile Organic Compounds in Soil (180-054)

DATE SAMPLED: Dec 16, 2011

DATE RECEIVED: Dec 17, 2011

DATE REPORTED: Dec 30, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	MV-11BH-03M-3	MV-11BH-03M-4	MV-11BH-02M-5	MV-11BH-02M-6
				3020046	3020047	3020056	3020057
1,2,4-Trichlorobenzene	µg/g	10	0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits					
Bromofluorobenzene	%	50-150		107	98	117	103
Dibromofluoromethane	%	50-150		121	111	128	118
Toluene - d8	%	50-150		125	121	129	123

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
3020046-3020057 Results are based on dry weight of sample.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V560614
 ATTENTION TO: Amanda Salway

Soil Analysis															
RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
British Columbia Metals Schedule 4 and 5 (181-588)															
Antimony		3020034	0.44	0.43	2.3%	< 0.05	96%	70%	130%	93%	90%	110%	97%	80%	120%
Arsenic		3020034	4.0	3.8	5.1%	< 0.1	102%	70%	130%	100%	90%	110%	103%	80%	120%
Barium		3020034	154	157	1.9%	< 0.5	89%	70%	130%	97%	90%	110%	97%	80%	120%
Beryllium		3020034	0.45	0.47	4.3%	< 0.02	91%	70%	130%	99%	90%	110%	99%	80%	120%
Boron (Hot Water Soluble)		3020034	< 0.1	< 0.1	0.0%	< 0.1				106%	90%	110%	113%	80%	120%
Cadmium		3020034	0.09	0.1	10.5%	< 0.01				97%	90%	110%	98%	80%	120%
Chromium		3020034	50	51	2.0%	< 1	93%	70%	130%	101%	90%	110%	100%	80%	120%
Cobalt		3020034	10.5	10.9	3.7%	< 0.1	89%	70%	130%	101%	90%	110%	102%	80%	120%
Copper		3020034	16.0	15.9	0.6%	< 0.2	85%	70%	130%	101%	90%	110%	102%	80%	120%
Lead		3020034	10.0	10.4	3.9%	< 0.05	84%	70%	130%	93%	90%	110%	96%	80%	120%
Mercury		3020034	0.04	0.05	22.2%	< 0.01	110%	70%	130%	94%	90%	110%	93%	80%	120%
Molybdenum		3020034	1.24	1.23	0.8%	< 0.05	93%	70%	130%	98%	90%	110%	100%	80%	120%
Nickel		3020034	32.9	33.4	1.5%	< 0.5	89%	70%	130%	101%	90%	110%	101%	80%	120%
Selenium		3020034	0.6	0.6	0.0%	< 0.1					90%	110%	100%	80%	120%
Silver		3020034	< 0.05	< 0.05	0.0%	< 0.05				98%	90%	110%	96%	80%	120%
Thallium		3020034	0.17	0.18	5.7%	< 0.05				96%	90%	110%	99%	80%	120%
Tin		3020034	1.22	1.59	26.3%	< 0.05				105%	90%	110%	99%	80%	120%
Uranium		3020034	1.13	1.08	4.5%	< 0.05		0%	0%	94%	90%	110%	92%	80%	120%
Vanadium		3020034	63	66	4.7%	< 1	95%	70%	130%	102%	90%	110%	101%	80%	120%
Zinc		3020034	73	71	2.8%	< 1	94%	70%	130%	107%	90%	110%	106%	80%	120%
pH 1:2		3020034	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%
Soil Analysis - Ion Analysis with Conversions - Cl & Na															
Chloride, Soluble		94	451	12	10	18.2%	< 2	97%	80%	120%					
Sodium, Soluble		141	7606	1890	1840	2.9%	< 2	102%	80%	120%					

Comments: N/A: Not applicable


 Certified By: _____

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Petroleum Hydrocarbons in Soil															
Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%			91%	70%	130%	
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			93%	70%	130%	
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			90%	70%	130%	
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			85%	70%	130%	
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%			79%	70%	130%	
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			84%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			85%	70%	130%	
VPH	1	3020046	<10	<10	0.0%	< 10									
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%			105%	50%	130%	
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%	
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%	
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%	
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%			90%	50%	130%	
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%	
Phenanthrene	1	3018978	0.04	0.05	22.2%	< 0.02	98%	80%	120%			92%	60%	130%	
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%	
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%	
Pyrene	1	3018978	0.06	0.05	18.2%	< 0.02	100%	80%	120%			98%	60%	130%	
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%	
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%	
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%	
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%	
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%	
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%	
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%	
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%	
Nitrobenzene - d5	1	3018978	81	90	10.5%	<	100%	80%	120%			100%	50%	130%	
2-Fluorobiphenyl	1	3018978	86	94	8.9%	<	101%	80%	120%			91%	50%	130%	
P-Terphenyl - d14	1	3018978	90	99	9.5%	<	98%	80%	120%			88%	50%	130%	
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25									
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25									
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%			108%	70%	130%	
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%			111%	70%	130%	
Volatile Organic Compounds in Soil (180-054)															
Chloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			109%	70%	130%	
Vinyl Chloride	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			109%	70%	130%	
Bromomethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	96%	80%	120%			106%	70%	130%	
Chloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			115%	70%	130%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Trichlorofluoromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				111%	70%	130%	
Acetone	1	3020046	<0.5	<0.5	0.0%	< 0.5	109%	80%	120%				129%	70%	130%	
1,1-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				112%	70%	130%	
Dichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%				113%	70%	130%	
2-Butanone (MEK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	102%	80%	120%				111%	70%	130%	
trans-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				114%	70%	130%	
1,1-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
cis-1,2-Dichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Chloroform	1	3020046	<0.05	<0.05	0.0%	< 0.05	91%	80%	120%				104%	70%	130%	
1,2-Dichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				116%	70%	130%	
1,1,1-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				113%	70%	130%	
Carbon Tetrachloride	1	3020046	<0.025	<0.025	0.0%	< 0.025	101%	80%	120%				112%	70%	130%	
1,2-Dichloropropane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Trichloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				115%	70%	130%	
Bromodichloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				116%	70%	130%	
trans-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				112%	70%	130%	
4-Methyl-2-pentanone (MIBK)	1	3020046	<0.5	<0.5	0.0%	< 0.5	104%	80%	120%				112%	70%	130%	
cis-1,3-Dichloropropene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%				113%	70%	130%	
1,1,2-Trichloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				114%	70%	130%	
Dibromochloromethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				114%	70%	130%	
Ethylene Dibromide	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				115%	70%	130%	
Tetrachloroethene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				126%	70%	130%	
1,1,1,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				114%	70%	130%	
Chlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				109%	70%	130%	
Bromoform	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%				109%	70%	130%	
1,1,2,2-Tetrachloroethane	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				108%	70%	130%	
1,3-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%				105%	70%	130%	
1,4-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%				105%	70%	130%	
1,2-Dichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%				106%	70%	130%	
1,2,4-Trichlorobenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	102%	80%	120%				105%	70%	130%	
Bromofluorobenzene	1	3020046	107	78	31.0%	<	111%	70%	130%				128%	70%	130%	
Dibromofluoromethane	1	3020046	121	80	41.0%	<	111%	70%	130%				129%	70%	130%	
Toluene - d8	1	3020046	125	86	37.0%	<	110%	70%	130%				128%	70%	130%	
Phenolic Compounds in Soil																
Phenol	127	3020046	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 30, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
2-Chlorophenol	127	3020046	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	97%	60%	140%	
2-Nitrophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
4-Chloro-3-methylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	92%	60%	140%	
2,4-Dichlorophenol	127	3020046	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	94%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	93%	60%	140%	
2,3,6-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	96%	60%	140%	
2,3,4-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2,4,6-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	97%	60%	140%	
2,4,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	97%	60%	140%	
2,3,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	99%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	99%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005				102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3020046	<0.005	<0.005	0.0%	< 0.005				101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3020046	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	99%	60%	140%	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)																
Benzene	1488	3020066	< 0.005	< 0.005	NA	< 0.005	85%	80%	120%	95%	80%	120%	90%	60%	140%	
Toluene	1488	3020066	< 0.05	< 0.05	NA	< 0.05	82%	80%	120%	97%	80%	120%	87%	60%	140%	
Ethylbenzene	1488	3020066	< 0.01	< 0.01	NA	< 0.01	81%	80%	120%	107%	80%	120%	91%	60%	140%	
Xylenes	1488	3020066	< 0.05	< 0.05	NA	< 0.05	86%	80%	120%	108%	80%	120%	93%	60%	140%	
C6 - C10 (F1)	1488	3020066	< 10	< 10	NA	< 10	102%	80%	120%	108%	80%	120%	117%	60%	140%	
C10 - C16 (F2)	878	3020066	<10	<10	NA	< 10	115%	80%	120%	90%	80%	120%	119%	60%	140%	
C16 - C34 (F3)	878	3020066	108	86	23.0%	< 10	115%	80%	120%	86%	80%	120%	126%	60%	140%	
C34 - C50 (F4)	878	3020066	412	408	1.0%	< 10	115%	80%	120%	86%	80%	120%	130%	60%	140%	

Certified By:



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2 Sulfide	INOR-181-6031	BC MOE Lab Manual	PH METER GRAVIMETRIC
Chloride, Soluble	SOIL 0110; SOIL 0120; INST 0330	SHEPPARD 2007; EATON 2005	CONTINUOUS FLOW ANALYZER
Sodium, Soluble	SOIL 0110; SOIL 0120; INST 0140	SHEPPARD 2007; EATON 2005	ICP/OES

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO 0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO 0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c.d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Chloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Vinyl Chloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromomethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichlorofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Acetone	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
2-Butanone (MEK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,2-Dichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chloroform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Carbon Tetrachloride	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichloropropane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Trichloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromodichloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
trans-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
4-Methyl-2-pentanone (MIBK)	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
cis-1,3-Dichloropropene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,2-Trichloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromochloromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Ethylene Dibromide	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Tetrachloroethene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560614

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Chlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromoform	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,1,1,2-Tetrachloroethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,3-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,4-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2-Dichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
1,2,4-Trichlorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Bromofluorobenzene	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Dibromofluoromethane	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS
Toluene - d8	ORG-180-5103	Modified from BC MOE Lab Manual Section D (VOC)	GC/MS



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Report To:

Company: FAM2 Environmental
Contact: Amanda Salway
Address: 308-1080 Mannings St
Vancouver, BC V6B 2T4
Phone: 604 632-9941 Fax: 604 632-9942
LSD: _____
Client Project #: 2090-1103

Invoice To: Same as above Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/A/E #: _____

Report Information

1. Name: Amanda Salway
Email: asalway@frankbe.com
2. Name: Viviane Dubois-Cole
Email: vdcoie@frankbe.com

Regulatory Requirements (Check):

- BC CSR - Soil** **BC CSR - Water**
- Agricultural Drinking Water
 - Industrial Aquatic Life
 - Urban/Park Irrigation
 - Commercial Livestock
- CCME**
- Drinking Water Industrial
 - Residential/Park Drinking Water
 - Commercial FWAL

Report Format

- Single Sample per page
- Multiple Samples per page
- Excel Format Included

Ph.: 778.452.4000 • Fax: 778.452.7074

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
- Rush TAT 24 to 48 hours
- 48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: 2.5°C
AGAT Job Number: 11V560614

Notes: DEC 17 AM 8:04

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME Metals	VOCs	BC CSR Schedule II	Routine Potability	CMF F-14	PAN	switches	Chlorinated and Chlorinated <u>phenols (non-chlorinated)</u>	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR - 60 days
3020032	MV-11B1-04M-1	soil	16/12/2011												1			
033	MV-11B1-04M-2														1			
034	MV-11B1-04M-3														1			
035	MV-11B1-04M-4														1			
036	MV-11B1-04M-5														1			
037	MV-11B1-04M-6														1			
038	MV-11B1-03M-1														1			
043	MV-11B1-03M-2														1			
046	MV-11B1-03M-3														5			
047	MV-11B1-03M-4														5			
049	MV-11B1-03M-5														5			
051	MV-11B1-03M-6														1			

for samples with 5 jars and only metals analysis, hold the remaining 4 jars

Samples Relinquished by (print name & sign): S. COLES Date: 17-DEC-11 @ 8:04 AM
Samples Relinquished by (print name & sign): _____ Date: _____
Samples Relinquished by (print name & sign): _____ Date: _____

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page 3 of 3

NO: 000296



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Turnaround Time Required (TAT)

Regular TAT 5 to 7 working days
Rush TAT 24 to 48 hours
48 to 72 hours

Report To:

Company: Franz Environmental
Contact: _____
Address: Same as previous
Phone: _____ Fax: _____
LSD: _____
Client Project #: _____

Invoice To:

Same as above Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____ Fax: _____
PO/A/E #: _____

Report Information

1. Name: _____
Email: Same as previous
2. Name: _____
Email: _____

Regulatory Requirements (Check):

BC CSR - Soil BC CSR - Water
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation Livestock
 CCME Industrial
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Report Format

Single Sample per page
 Multiple Samples per page
 Excel Format Included

Ph: 778.452.4000 - Fax: 778.452.7074

Notes: DEC 17 AM 8:04

Laboratory Use Only

Arrival Temperature: 2.5°C
AGAT Job Number: 11V560614

Date Required: _____

Please contact laboratory if Rush is required

Notes: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	CGME FI-F4	FAH	Switches	Sodium and chloride	Promis (Chloride-chromate)	CGME F2-F4	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR - 60 days
3020052	MV-11BM-02M-1	soil	16/12/2011	for samples with 5 jars and only metals analysis, hold the other 4 jars													1			
053	MV-11BM-02M-2																5			
054	MV-11BM-02M-3																5			
055	MV-11BM-02M-4																5			
056	MV-11BM-02M-5																5			
057	MV-11BM-02M-6																5			
058	BV-11BM-08M-1																2			
059	BV-11BM-08M-2																2			
060	BV-11BM-08M-3																2			
062	BV-11BM-08M-4																2			
063	BV-11BM-08M-5																2			
066	BV-11BM-08M-6																2			
Samples Relinquished by (print name & sign): _____					Date: 16/12/2011	Samples Received by (Print name & sign): <u>S. CORENS</u>					Date: 17-DEC-11 @ 8:04 AM	Pink Copy - Client								
Samples Relinquished by (print name & sign): _____					Date: _____	Samples Received by (Print name & sign): _____					Date: _____	Yellow Copy - AGAT								
Samples Relinquished by (print name & sign): _____					Date: _____	Samples Received by (Print name & sign): _____					Date: _____	White Copy - AGAT								



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 - Fax: 778.452.7074

Report To:
 Company: Same as previous
 Contact: previous
 Address: _____
 Phone: _____ Fax: _____
 LSD: _____
 Client Project #: _____

Report Information
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Turnaround Time Required (TAT)
 Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours 48 to 72 hours

Date Required: _____
 Please contact laboratory if Rush is required

Laboratory Use Only
 Arrival Temperature: 2.5°C
 AGAT Job Number: 11V560614

Notes: DEC 17 08:04

Invoice To: Same as above Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 PO/AFE #: _____

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info.	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
3020065	BV-11B1-02M-1	Soil	16/12/2011		X	X	X				4			X
1066	BV-11B1-02M-2				X	X	X				4			X
1067	BV-11B1-02M-3				X	X	X				4			X
1068	BV-11B1-02M-4				X	X	X				4			X
1069	BV-11B1-02M-5				X	X	X				4			X
1070	BV-11B1-02M-6				X	X	X				4			X

Report Format
 Single Sample per page
 Multiple Samples per page
 Excel Format Included

Client Project #: _____

Report Information:
 1. Name: Same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):
 BC CSR - Soil **BC CSR - Water**
 Agricultural Drinking Water
 Industrial Aquatic Life
 Urban/Park Irrigation
 Commercial Livestock
 CCME
 Drinking Water Industrial
 Residential/Park Drinking Water
 Commercial FWAL

Chain of Custody:
 Samples Relinquished by (print name & sign): [Signature] Date: 16/12/2011
 Samples Relinquished by (print name & sign): S. Cozart Date: 17-DEC-11 @ 8:04 AM
 Samples Relinquished by (print name & sign): _____ Date: _____



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11560614

RECEIVING BASICS:

*Complete CoC as well where required
Date and Time: 17-DEC-11 @ 8:04 AM
Courier: _____
Received by: S. Couzens
Relinquished by: In dropoff Area
Branch Received From: _____
Company: Franz Env
Consultant: _____
Client left without count verified: N/A

CoC INFORMATION:

Received: Yes No Emailed to PM
Completed in full: Yes No If NO, why: _____
TURNAROUND TIME: Reg
COC Numbers: 00296, 297, 298

SAMPLE QUANTITIES:

Coolers: _____ Bottles/Jars: 86 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 16-DEC-11
Microbiology: Test: _____
Hydrocarbons: Test: BTEX
Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No
Expiry: _____
Expiry: 23-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A
International Samples: Yes No
**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____
Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.
Correct bottles used for testing: Yes No
If No, explain: _____
Correct amount of sample for analysis: Yes No
If No, explain: _____
Are all samples labeled correctly: Yes No
If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 2 + 2 = 2 °C (2) 2 + 4 + 2 = 3 °C (3) _____ + _____ + _____ = _____ °C (4) _____ + _____ + _____ = _____ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

- 1) _____
- 2) _____
- 3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No
Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560784

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Andrew Garrard, B.Sc., General Manager

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 12

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	BV-11BH-05M-1	BV-11BH-05M-5	BV-Dup10
				3021236	3021240	3021245	3021246	3021252	3021254
Antimony	µg/g	40	0.05	0.56	0.66	0.29	0.92	0.48	0.44
Arsenic	µg/g	15	0.1	4.4	7.0	5.4	5.2	11.7	14.6
Barium	µg/g	400	0.5	80.5	57.0	54.7	69.5	81.0	76.8
Beryllium	µg/g	8	0.02	0.24	0.20	0.18	0.21	0.26	0.27
Boron (Hot Water Soluble)	µg/g		0.1	1.2	0.2	0.2	0.3	0.2	0.2
Cadmium	µg/g		0.01	0.37	0.12	0.12	0.22	0.22	0.24
Chromium	µg/g	60	1	37	30	28	29	35	34
Cobalt	µg/g	300	0.1	8.5	8.2	7.9	8.3	10.6	10.4
Copper	µg/g		0.2	27.3	16.7	15.2	24.0	27.6	28.1
Lead	µg/g		0.05	18.6	3.24	2.89	14.8	5.59	6.34
Mercury	µg/g		0.01	0.05	0.03	0.02	0.04	0.04	0.04
Molybdenum	µg/g	40	0.05	2.24	0.47	0.42	0.75	0.58	0.70
Nickel	µg/g	500	0.5	31.1	32.0	31.2	30.1	36.4	36.4
Selenium	µg/g	10	0.1	0.4	0.2	0.3	0.3	0.4	0.4
Silver	µg/g	40	0.05	0.09	0.06	<0.05	0.06	0.07	0.08
Thallium	µg/g		0.05	0.07	0.06	<0.05	0.06	0.08	0.08
Tin	µg/g	300	0.05	1.30	0.32	0.35	0.86	0.49	0.46
Uranium	µg/g	200	0.05	0.54	0.39	0.33	0.43	0.54	0.55
Vanadium	µg/g		1	40	41	40	43	46	44
Zinc	µg/g		1	108	40	41	125	60	59
pH 1:2	pH units		0.1	6.9	7.0	7.1	7.0	7.1	7.2

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
 3021236-3021254 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-07M-2	BV-11BH-07M-3	BV-DUP8	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
				3021230	3021231	3021234	3021236	3021240	3021246	3021252
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	0.37	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg	260	10	29	17	13	<10	<10	11	<10
C16 - C34 (F3)	mg/kg	1700	10	206	150	136	314	<10	145	34
C34 - C50 (F4)	mg/kg	3300	10	92	112	80	205	19	524	63
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	21	41	21	14	24	16	24
Surrogate	Unit	Acceptable Limits								
Toluene-d8 (BTEX)	%	50-150		100	99	98	99	98	98	98
Ethylbenzene-d10 (BTEX)	%	50-150		104	76	101	100	98	98	99
o-Terphenyl (F2-F4)	%	50-150		140	125	129	120	121	131	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3021230-3021252 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-07M-2	BV-11BH-07M-3	BV-DUP8	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
				3021230	3021231	3021234	3021236	3021240	3021246	3021252
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VPH	µg/g	200	10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	µg/g	50	0.01	0.02	0.07	0.02	0.02	<0.01	<0.01	0.01
2-Methylnaphthalene	µg/g		0.01	0.14	0.05	0.14	0.01	<0.01	<0.01	<0.01
1-Methylnaphthalene	µg/g		0.01	0.09	0.03	0.08	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/g		0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	µg/g		0.02	0.03	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.07	0.05	0.07	0.04	<0.02	<0.02	0.05
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Fluoranthene	µg/g		0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.29
Pyrene	µg/g	100	0.02	<0.02	0.04	0.02	0.06	<0.02	<0.02	0.38
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	0.13
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.11
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
LEPH C10-C19	µg/g	2000	25	30	43	<25	<25	<25	<25	<25
HEPH C19-C32	µg/g	5000	25	110	220	33	170	<25	54	78

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	BV-11BH-07M-2	BV-11BH-07M-3	BV-DUP8	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
			3021230	3021231	3021234	3021236	3021240	3021246	3021252
Nitrobenzene - d5	%	50-130	96	100	100	100	94	91	120
2-Fluorobiphenyl	%	50-130	86	96	91	97	91	87	91
P-Terphenyl - d14	%	50-130	86	95	89	99	89	88	92
Bromofluorobenzene	%	70-130	95.5	98.1	97.2	111	101	99.2	103
Toluene - d8	%	70-130	114	122	116	137	120	116	122

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3021230-3021252 Results are based on dry weight of sample.

VPH results have been corrected for BTEXS contributions.

LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	BV-11BH-05M-1	BV-11BH-05M-5
				3021236	3021240	3021245	3021246	3021252
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits						
2-Fluorophenol	%	50-150		113	110	105	121	111
2,4,6-Tribromophenol	%	50-150		113	109	105	105	110

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
3021236-3021252 Results relate only to the items tested.

Certified By:



Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL
PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560784
ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony		3020034	0.44	0.43	2.3%	< 0.05	96%	70%	130%	93%	90%	110%	96%	80%	120%	
Arsenic		3020034	4.0	3.9	2.5%	< 0.1	102%	70%	130%	100%	90%	110%	103%	80%	120%	
Barium		3020034	154	157	1.9%	< 0.5	89%	70%	130%	97%	90%	110%	97%	80%	120%	
Beryllium		3020034	0.45	0.47	4.3%	< 0.02	91%	70%	130%	99%	90%	110%	99%	80%	120%	
Boron (Hot Water Soluble)		3020034	0.1	< 0.1	NA	< 0.1				109%	90%	110%	113%	80%	120%	
Cadmium		3020034	0.09	0.1	10.5%	< 0.01				97%	90%	110%	98%	80%	120%	
Chromium		3020034	50	51	2.0%	< 1	93%	70%	130%	101%	90%	110%	100%	80%	120%	
Cobalt		3020034	10.5	10.9	3.7%	< 0.1	89%	70%	130%	101%	90%	110%	102%	80%	120%	
Copper		3020034	16.0	15.9	0.6%	< 0.2	85%	70%	130%	101%	90%	110%	102%	80%	120%	
Lead		3020034	10.0	10.4	3.9%	< 0.05	84%	70%	130%	93%	90%	110%	96%	80%	120%	
Mercury		3020034	0.04	0.05	22.2%	< 0.01	110%	70%	130%	94%	90%	110%	93%	80%	120%	
Molybdenum		3020034	1.24	1.13	9.3%	< 0.05	93%	70%	130%	98%	90%	110%	100%	80%	120%	
Nickel		3020034	32.9	33.4	1.5%	< 0.5	89%	70%	130%	101%	90%	110%	101%	80%	120%	
Selenium		3020034	0.6	0.6	0.0%	< 0.1				106%	90%	110%	100%	80%	120%	
Silver		3020034	< 0.05			< 0.05				98%	90%	110%	96%	80%	120%	
Thallium		3020034	0.17	0.18	5.7%	< 0.05				96%	90%	110%	99%	80%	120%	
Tin		3020034	1.22	1.59	26.3%	< 0.05				105%	90%	110%	99%	80%	120%	
Uranium		3020034	1.13	1.08		< 0.05		0%	0%	94%	90%	110%	92%	80%	120%	
Vanadium		3020034	63	66	4.7%	< 1	95%	70%	130%	102%	90%	110%	101%	80%	120%	
Zinc		3020034	73	71	2.8%	< 1	94%	70%	130%	107%	90%	110%	106%	80%	120%	
pH 1:2		3021236	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%	

Certified By: 

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Petroleum Hydrocarbons in Soil

Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%			91%	70%	130%
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			93%	70%	130%
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			90%	70%	130%
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			85%	70%	130%
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%			79%	70%	130%
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			84%	70%	130%
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			85%	70%	130%
VPH	1	3020046	<10	<10	0.0%	< 10								
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%			105%	50%	130%
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%			90%	50%	130%
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%
Phenanthrene	1	3018978	0.04	0.05	22.0%	< 0.02	98%	80%	120%			92%	60%	130%
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%
Pyrene	1	3018978	0.06	0.05	18.0%	< 0.02	100%	80%	120%			98%	60%	130%
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%
Nitrobenzene - d5	1	3018978	81	90	11.0%	<	100%	80%	120%			100%	50%	130%
2-Fluorobiphenyl	1	3018978	86	94	9.0%	<	101%	80%	120%			91%	50%	130%
P-Terphenyl - d14	1	3018978	90	99	10.0%	<	98%	80%	120%			88%	50%	130%
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25								
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25								
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%			108%	70%	130%
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%			111%	70%	130%

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

C10 - C16 (F2)	1381	3021234	13	37	96.0%	< 10	108%	80%	120%	95%	80%	120%	121%	60%	140%
C16 - C34 (F3)	1381	3021234	136	84	47.0%	< 10	108%	80%	120%	105%	80%	120%	116%	60%	140%
C34 - C50 (F4)	1381	3021234	80	58	32.0%	< 10	108%	80%	120%	112%	80%	120%	116%	60%	140%

Phenolic Compounds in Soil

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V560784
 ATTENTION TO: Amanda Salway

Trace Organics Analysis (Continued)

RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Phenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	97%	70%	130%	96%	60%	140%	
4-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	94%	70%	130%	93%	60%	140%	
m&p-Cresol (3&4-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
o-Cresol (2-methylphenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	95%	60%	140%	
2-Chlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002				98%	70%	130%	97%	60%	140%	
2,4-Dinitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	96%	70%	130%	95%	60%	140%	
2-Nitrophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	94%	80%	120%	109%	70%	130%	107%	60%	140%	
2,4-Dimethylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	83%	80%	120%	97%	70%	130%	95%	60%	140%	
2,6-Dichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	94%	60%	140%	
4-Chloro-3-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	82%	80%	120%	99%	70%	130%	100%	60%	140%	
2,4-Dichlorophenol	127	3021236	<0.002	<0.002	0.0%	< 0.002	84%	80%	120%	100%	70%	130%	95%	60%	140%	
4,6-Dinitro-2-methylphenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	93%	80%	120%	100%	70%	130%	102%	60%	140%	
2,3,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				96%	70%	130%	95%	60%	140%	
2,3,4-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				97%	70%	130%	96%	60%	140%	
2,4,6-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	84%	80%	120%	99%	70%	130%	98%	60%	140%	
2,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005				98%	70%	130%	96%	60%	140%	
2,3,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	0%			99%	70%	130%	98%	60%	140%	
3,4,5-Trichlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	0%			95%	70%	130%	94%	60%	140%	
2,3,4,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	0%			102%	70%	130%	100%	60%	140%	
2,3,5,6-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	0%			101%	70%	130%	100%	60%	140%	
2,3,4,5-Tetrachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	0%			102%	70%	130%	100%	60%	140%	
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	127	3021236	<0.005	<0.005	0.0%	< 0.005	0%			101%	70%	130%	98%	60%	140%	
Pentachlorophenol	127	3021236	<0.005	<0.005	0.0%	< 0.005	90%	80%	120%	102%	70%	130%	100%	60%	140%	


 Certified By: _____



Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Arsenic	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Barium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Beryllium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-181-6101, LAB-181-4011	Modified from SSMA 2ND ED. CH 9 and SM 3120 B	ICP/OES
Cadmium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Chromium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Cobalt	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Copper	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Lead	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Mercury	MET-181-6100, LAB-181-4008	Mod BC MOE Sec C (SALM) & BC MOE (Mercury)	CV/AA
Molybdenum	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Nickel	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Selenium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Silver	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Thallium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Tin	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Uranium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6020A	ICP-MS
Vanadium	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
Zinc	MET-181-6102, LAB-181-4008	BC MOE Lab Manual C (SALM) and EPA 6010C	ICP-MS
pH 1:2	INOR-181-6031	BC MOE Lab Manual	PH METER

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	TO 0570	EPA SW-846 8260	GC/MS
Toluene	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene	TO 0570	EPA SW-846 8260	GC/MS
Xylenes	TO 0570	EPA SW-846 8260	GC/MS
C6 - C10 (F1)	TO 0570	CCME Tier 1 Method	GC/FID
C6 - C10 (F1 minus BTEX)	TO 0570	CCME Tier 1 Method	GC/FID
C10 - C16 (F2)	TO-0560	CCME Tier 1 Method	GC/FID
C16 - C34 (F3)	TO-0560	CCME Tier 1 Method	GC/FID
C34 - C50 (F4)	TO 0560	CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	TO 0560	CCME Tier 1 Method	GC/FID
Moisture Content	TO 0560	CCME Tier 1 Method	GRAVIMETRIC
Toluene-d8 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
Ethylbenzene-d10 (BTEX)	TO 0570	EPA SW-846 8260	GC/MS
o-Terphenyl (F2-F4)	TO 0560	CCME Tier 1 Method	GC/FID
Methyl tert-butyl ether (MTBE)	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Benzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Ethylbenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
m&p-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
o-Xylene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Styrene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
VPH	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Naphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
1-Methylnaphthalene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Acenaphthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluorene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Phenanthrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS

Method Summary

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Chrysene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(b)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(k)fluoranthene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(a)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Indeno(1,2,3-c,d)pyrene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Dibenzo(a,h)anthracene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Benzo(g,h,i)perylene	ORG-180-5102	Modified from BC MOE Lab Manual Section D (PAH)	GC/MS
Nitrobenzene - d5	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
2-Fluorobiphenyl	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
P-Terphenyl - d14	ORG-180-5102	modified from BC MOE Lab Manual Section D (PAH)	GC/MS
LEPH C10-C19	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
HEPH C19-C32	ORG-180-5101	Modified from BCMOE Lab Manual Section D (EPH)	GC/FID
Bromofluorobenzene	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Toluene - d8	ORG-180-5100	Modified from BC MOE Lab Manual Sec D (BETX, VPH)	GC/MS/FID
Phenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
m&p-Cresol (3&4-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
o-Cresol (2-methylphenol)	TO 1200	EPA SW-846 8321	HPLC/UV
2-Chlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dinitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Nitrophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dimethylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,6-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4-Chloro-3-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4-Dichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
4,6-Dinitro-2-methylphenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
3,4,5-Trichlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,5,6-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,3,4,5-Tetrachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	TO 1200	EPA SW-846 8321	HPLC/UV
Pentachlorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2-Fluorophenol	TO 1200	EPA SW-846 8321	HPLC/UV
2,4,6-Tribromophenol	TO 1200	EPA SW-846 8321	HPLC/UV



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Report To:

Company: FRANZ Environmental
Contact: Amanda Salway
Address: 308-1080 Mountain St
Vancouver, BC V6R 2T4
Phone: 604 652-9944 Fax: 604 652-9942
LSD: _____
Client Project #: 2090-103

Invoice To: Same as above Yes No
Company: _____
Contact: _____
Address: _____
Phone: _____
PO/APE #: _____

Report Information

1. Name: Amanda Salway
Email: asalway@franzbc.com
2. Name: Viviane Dupois-Côté
Email: vdcois@franzbc.com

Regulatory Requirements (Check):

- BC CSR - Soil** **BC CSR - Water**
- Agricultural Drinking Water
 - Industrial Aquatic Life
 - Urban/Park Irrigation
 - Commercial Livestock
- CCME**
- Drinking Water Industrial
 - Residential/Park Drinking Water
 - Commercial FWAL

Report Format

- Single Sample per page
- Multiple Samples per page
- Excel Format Included

Ph.: 778.452.4000 • Fax: 778.452.7074

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
- Rush TAT 24 to 48 hours
- 48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Laboratory Use Only

Arrival Temperature: 2°C
AGAT Job Number: 11V560784

Notes: _____

DEC 19 AM 8:58

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	CCME P-1-4	PAN	phenols (chlorinated)	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 1 YEAR 60 days
201228	BV-118M-07M-1	Soil	17/12/2011											2			
230	BV-118M-07M-2													2			
231	BV-118M-07M-3													2			
232	BV-118M-07M-4													2			
233	BV-118M-07M-5													2			
234	BV-DUPR													2			
236	BV-118M-04M-1													2			
237	BV-118M-04M-2													2			
240	BV-118M-04M-3													2			
242	BV-118M-04M-4													2			
243	BV-118M-04M-5													2			

Samples Relinquished by (print name & sign): _____ Date: 17/12/2011

Samples Relinquished by (print name & sign): S. CARLOS Date: 19-DEC-11 @ 8:58pm

Samples Relinquished by (print name & sign): _____ Date: _____

Samples Relinquished by (print name & sign): _____ Date: _____

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page 1 of 2
NO: 000299



AGAT Laboratories

120 - 8600 Glenlyon Parkway
Burnaby, BC,
V5J 0B6
webearth.agatlabs.com

Chain of Custody Record

Ph.: 778.452.4000 - Fax: 778.452.7074

Report To:

Company: same as previous
 Contact: _____
 Address: _____
 Phone: _____
 LSD: _____
 Client Project #: _____

Report Information

1. Name: same as previous
 Email: _____
 2. Name: _____
 Email: _____

Regulatory Requirements (Check):

- BC CSR - Soil** **BC CSR - Water**
- Agricultural Drinking Water
 - Industrial Aquatic Life
 - Urban/Park Irrigation
 - Commercial Livestock
- CCME**
- Drinking Water Industrial
 - Residential/Park Drinking Water
 - Commercial FWAL

Invoice To:

Same as above Yes No

Company: _____
 Contact: _____
 Address: _____
 Phone: _____
 PO/A/E #: _____

Report Format

- Single Sample per page
 Multiple Samples per page
 Excel Format Included

Laboratory Use Only

Arrival Temperature: 2°C
 AGAT Job Number: 11V560784

Notes: DEC 19 AM 8:58

Turnaround Time Required (TAT)

- Regular TAT 5 to 7 working days
 Rush TAT 24 to 48 hours
 48 to 72 hours

Date Required: _____

Please contact laboratory if Rush is required

Lab ID #	Sample Identification	Sample Matrix	Date/Time Sampled	Comments - Site/Sample Info. Sample Containment	BC CSR BTEX/VPH	BC CSR LEPH/HEPH	BC CSR Metals + CCME metals	VOCs	BC CSR Schedule II	Routine Potability	Number of Containers	Preserved (Y/N)	Hazardous (Y/N)	Hold for 4 YEAR
3021244	BV-118K-04M-6	Soil	17/12/2011								4			X
1245	BV-DUP9										2			X
246	BV-118K-05M-1										4			X
249	BV-118K-05M-2										4			X
250	BV-118K-05M-3										4			X
251	BV-118K-05M-4										4			X
252	BV-118K-05M-5										4			X
253	BV-118K-05M-6										4			X
1254	BV-DUP10										1			X
Samples Relinquished by (print name & sign): _____ Date: 17/12/2011 Samples Relinquished by (print name & sign): _____ Date: 19-DEC-11 @ 8:58A Samples Relinquished by (print name & sign): _____ Date: _____														

Page 2 of 2
 NO: 000143



AGAT Laboratories

SAMPLE INTEGRITY RECEIPT FORM - BURNABY

Work Order # 11V560784

RECEIVING BASICS:

*Complete CoC as well where required

Date and Time: 19-DEC-11

Courier: _____

Received by: S. COVENS

Relinquished by: Amanda Selway

Branch Received From: _____

Company: Franz Env

Consultant: _____

Client left without count verified: No

CoC INFORMATION:

Received: Yes No Emailed to PM

Completed in full: Yes No If NO, why: _____

TURNAROUND TIME: Reg

CoC Numbers: 000299, 000143

SAMPLE QUANTITIES:

Coolers: 2 Bottles/Jars: 62 Bags: _____

TIME SENSITIVE ISSUES:

Earliest Date Sampled: 17-DEC-11

Microbiology: Test: _____

Hydrocarbons: Test: BTEX

Samples are received >5 days after sampling: Yes No

ALREADY EXCEEDED? Yes No

Expiry: _____

Expiry: 24-DEC-11

SPECIALTY ISSUES:

Legal Samples: Yes No N/A

International Samples: Yes No

**Proper tape/labels applied: Yes No

Hazardous Samples:

Why hazardous: _____

Precaution taken: _____

SAMPLE REQUIREMENTS:

*Complete while logging in by login staff.

Correct bottles used for testing: Yes No

If No, explain: _____

Correct amount of sample for analysis: Yes No

If No, explain: _____

Are all samples labeled correctly: Yes No

If No, explain: _____

NON-CONFORMANCES:

3 temperatures of samples* and average of each cooler: (record differing temperatures on the CoC next to sample ID's)

(1) 3 + 3 + 4 = 3 °C (2) 0 + 2 + 1 = 1 °C (3) ___ + ___ + ___ = ___ °C (4) ___ + ___ + ___ = ___ °C

*Jars used when available

Additional integrity issues (note here and on CoC next to the sample ID):

1) _____

2) _____

3) _____

Account Project Manager: _____ Have they been notified of the above issues: Yes No

Whom spoken to: _____ Date and Time: _____

ADDITIONAL NOTES:

CLIENT NAME: FRANZ ENVIRONMENTAL
308-108 MAILAND STREET
VANCOUVER, BC V6B2T4

ATTENTION TO: Amanda Salway

PROJECT NO: 2090-1103

AGAT WORK ORDER: 11V560784

SOIL ANALYSIS REVIEWED BY: Marie England, Inorganics Supervisor

TRACE ORGANICS REVIEWED BY: Andrew Garrard, B.Sc., General Manager

DATE REPORTED: Dec 23, 2011

PAGES (INCLUDING COVER): 12

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (778) 452-4000

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
 Burnaby, British Columbia
 CANADA V5J 0B6
 TEL (778)452-4000
 FAX (778)452-4074
<http://www.agatlabs.com>

CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

British Columbia Metals Schedule 4 and 5 (181-588)

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	BV-11BH-05M-1	BV-11BH-05M-5	BV-Dup10
				3021236	3021240	3021245	3021246	3021252	3021254
Antimony	µg/g	40	0.05	0.56	0.66	0.29	0.92	0.48	0.44
Arsenic	µg/g	12	0.1	4.4	7.0	5.4	5.2	11.7	14.6
Barium	µg/g	2000	0.5	80.5	57.0	54.7	69.5	81.0	76.8
Beryllium	µg/g	8	0.02	0.24	0.20	0.18	0.21	0.26	0.27
Boron (Hot Water Soluble)	µg/g	1.4	0.1	1.2	0.2	0.2	0.3	0.2	0.2
Cadmium	µg/g	22	0.01	0.37	0.12	0.12	0.22	0.22	0.24
Chromium	µg/g	87	1	37	30	28	29	35	34
Cobalt	µg/g	300	0.1	8.5	8.2	7.9	8.3	10.6	10.4
Copper	µg/g	91	0.2	27.3	16.7	15.2	24.0	27.6	28.1
Lead	µg/g	600	0.05	18.6	3.24	2.89	14.8	5.59	6.34
Mercury	µg/g	50	0.01	0.05	0.03	0.02	0.04	0.04	0.04
Molybdenum	µg/g	40	0.05	2.24	0.47	0.42	0.75	0.58	0.70
Nickel	µg/g	50	0.5	31.1	32.0	31.2	30.1	36.4	36.4
Selenium	µg/g	2.9	0.1	0.4	0.2	0.3	0.3	0.4	0.4
Silver	µg/g	40	0.05	0.09	0.06	<0.05	0.06	0.07	0.08
Thallium	µg/g	1	0.05	0.07	0.06	<0.05	0.06	0.08	0.08
Tin	µg/g	300	0.05	1.30	0.32	0.35	0.86	0.49	0.46
Uranium	µg/g	300	0.05	0.54	0.39	0.33	0.43	0.54	0.55
Vanadium	µg/g	130	1	40	41	40	43	46	44
Zinc	µg/g	360	1	108	40	41	125	60	59
pH 1:2	pH units		0.1	6.9	7.0	7.1	7.0	7.1	7.2

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (IL) (Van)
 3021236-3021254 Results are based on the dry weight of the sample

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-07M-2	BV-11BH-07M-3	BV-DUP8	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
				3021230	3021231	3021234	3021236	3021240	3021246	3021252
Benzene	mg/kg	0.030	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/kg	0.37	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	mg/kg	0.082	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenes	mg/kg	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C6 - C10 (F1)	mg/kg	320	10	<10	<10	<10	<10	<10	<10	<10
C6 - C10 (F1 minus BTEX)	mg/kg		10	<10	<10	<10	<10	<10	<10	<10
C10 - C16 (F2)	mg/kg	260	10	29	17	13	<10	<10	11	<10
C16 - C34 (F3)	mg/kg	1700	10	206	150	136	314	<10	145	34
C34 - C50 (F4)	mg/kg	3300	10	92	112	80	205	19	524	63
Gravimetric Heavy Hydrocarbons	mg/kg		1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Content	%		1	21	41	21	14	24	16	24
Surrogate	Unit	Acceptable Limits								
Toluene-d8 (BTEX)	%	50-150		100	99	98	99	98	98	98
Ethylbenzene-d10 (BTEX)	%	50-150		104	76	101	100	98	98	99
o-Terphenyl (F2-F4)	%	50-150		140	125	129	120	121	131	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to CCME (Ind,C)

3021230-3021252 Results are based on the dry weight of the sample.
 The C6-C10 (F1) fraction is calculated using toluene response factor.
 The C10 - C16 (F2), C16 - C34 (F3), and C34 - C50 (F4) fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
 Gravimetric Heavy Hydrocarbons (F4g) are not included in and cannot be added to the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
 Total C6 - C50 results are corrected for BTEX and PAH contributions (if requested).
 Quality control data is available upon request.
 Assistance in the interpretation of data is available upon request.
 This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
 nC6 and nC10 response factors are within 30% of Toluene response factor.
 nC10, nC16 and nC34 response factors are within 10% of their average.
 C50 response factor is within 70% of nC10 + nC16 + nC34 average.
 Linearity is within 15%.
 The chromatogram returned to baseline by the retention time of nC50.
 Extraction and holding times were met for this sample.

Certified By:



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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-07M-2	BV-11BH-07M-3	BV-DUP8	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
				3021230	3021231	3021234	3021236	3021240	3021246	3021252
Methyl tert-butyl ether (MTBE)	µg/g	700	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene	µg/g	0.04	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m&p-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g	20	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	µg/g	50	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VPH	µg/g	200	10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	µg/g	50	0.01	0.02	0.07	0.02	0.02	<0.01	<0.01	0.01
2-Methylnaphthalene	µg/g		0.01	0.14	0.05	0.14	0.01	<0.01	<0.01	<0.01
1-Methylnaphthalene	µg/g		0.01	0.09	0.03	0.08	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/g		0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02
Acenaphthene	µg/g		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	µg/g		0.02	0.03	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	µg/g	50	0.02	0.07	0.05	0.07	0.04	<0.02	<0.02	0.05
Anthracene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Fluoranthene	µg/g		0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.29
Pyrene	µg/g	100	0.02	<0.02	0.04	0.02	0.06	<0.02	<0.02	0.38
Benzo(a)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	0.13
Chrysene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19
Benzo(b)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	0.11
Benzo(k)fluoranthene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15
Indeno(1,2,3-c,d)pyrene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06
Dibenzo(a,h)anthracene	µg/g	10	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
LEPH C10-C19	µg/g	2000	25	30	43	<25	<25	<25	<25	<25
HEPH C19-C32	µg/g	5000	25	110	220	33	170	<25	54	78

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Petroleum Hydrocarbons in Soil

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Surrogate	Unit	Acceptable Limits	BV-11BH-07M-2	BV-11BH-07M-3	BV-DUP8	BV-11BH-04M-1	BV-11BH-04M-3	BV-11BH-05M-1	BV-11BH-05M-5
			3021230	3021231	3021234	3021236	3021240	3021246	3021252
Nitrobenzene - d5	%	50-130	96	100	100	100	94	91	120
2-Fluorobiphenyl	%	50-130	86	96	91	97	91	87	91
P-Terphenyl - d14	%	50-130	86	95	89	99	89	88	92
Bromofluorobenzene	%	70-130	95.5	98.1	97.2	111	101	99.2	103
Toluene - d8	%	70-130	114	122	116	137	120	116	122

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)

3021230-3021252 Results are based on dry weight of sample.

VPH results have been corrected for BTEXS contributions.

LEPH & HEPH results have been corrected for PAH contributions.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

Unit 120, 8600 Glenlyon Parkway
Burnaby, British Columbia
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CLIENT NAME: FRANZ ENVIRONMENTAL

ATTENTION TO: Amanda Salway

Phenolic Compounds in Soil

DATE SAMPLED: Dec 17, 2011

DATE RECEIVED: Dec 19, 2011

DATE REPORTED: Dec 23, 2011

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BV-11BH-04M-1	BV-11BH-04M-3	BV-Dup9	BV-11BH-05M-1	BV-11BH-05M-5
				3021236	3021240	3021245	3021246	3021252
Phenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4-Nitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m&p-Cresol (3&4-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Cresol (2-methylphenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Chlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2,4-Dinitrophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2-Nitrophenol	mg/kg	10	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,6-Dichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4-Chloro-3-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/kg		0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4,6-Dinitro-2-methylphenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,6-Trichlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,6-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3,4,5-Trichlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,5,6-Tetrachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,3,4,5-Tetrachlorophenol	mg/kg	5	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb (2-sec-butyl-4,6-dinitrophenol)	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	mg/kg		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate	Unit	Acceptable Limits						
2-Fluorophenol	%	50-150		113	110	105	121	111
2,4,6-Tribromophenol	%	50-150		113	109	105	105	110

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to BC CSR (IL-G) (Van)
3021236-3021252 Results relate only to the items tested.

Certified By:

Quality Assurance

 CLIENT NAME: FRANZ ENVIRONMENTAL
 PROJECT NO: 2090-1103

 AGAT WORK ORDER: 11V560784
 ATTENTION TO: Amanda Salway

Soil Analysis																
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
British Columbia Metals Schedule 4 and 5 (181-588)																
Antimony		3020034	0.44	0.43	2.3%	< 0.05	96%	70%	130%	93%	90%	110%	96%	80%	120%	
Arsenic		3020034	4.0	3.9	2.5%	< 0.1	102%	70%	130%	100%	90%	110%	103%	80%	120%	
Barium		3020034	154	157	1.9%	< 0.5	89%	70%	130%	97%	90%	110%	97%	80%	120%	
Beryllium		3020034	0.45	0.47	4.3%	< 0.02	91%	70%	130%	99%	90%	110%	99%	80%	120%	
Boron (Hot Water Soluble)		3020034	0.1	< 0.1	NA	< 0.1				109%	90%	110%	113%	80%	120%	
Cadmium		3020034	0.09	0.1	10.5%	< 0.01				97%	90%	110%	98%	80%	120%	
Chromium		3020034	50	51	2.0%	< 1	93%	70%	130%	101%	90%	110%	100%	80%	120%	
Cobalt		3020034	10.5	10.9	3.7%	< 0.1	89%	70%	130%	101%	90%	110%	102%	80%	120%	
Copper		3020034	16.0	15.9	0.6%	< 0.2	85%	70%	130%	101%	90%	110%	102%	80%	120%	
Lead		3020034	10.0	10.4	3.9%	< 0.05	84%	70%	130%	93%	90%	110%	96%	80%	120%	
Mercury		3020034	0.04	0.05	22.2%	< 0.01	110%	70%	130%	94%	90%	110%	93%	80%	120%	
Molybdenum		3020034	1.24	1.13	9.3%	< 0.05	93%	70%	130%	98%	90%	110%	100%	80%	120%	
Nickel		3020034	32.9	33.4	1.5%	< 0.5	89%	70%	130%	101%	90%	110%	101%	80%	120%	
Selenium		3020034	0.6	0.6	0.0%	< 0.1				106%	90%	110%	100%	80%	120%	
Silver		3020034	< 0.05			< 0.05				98%	90%	110%	96%	80%	120%	
Thallium		3020034	0.17	0.18	5.7%	< 0.05				96%	90%	110%	99%	80%	120%	
Tin		3020034	1.22	1.59	26.3%	< 0.05				105%	90%	110%	99%	80%	120%	
Uranium		3020034	1.13	1.08		< 0.05		0%	0%	94%	90%	110%	92%	80%	120%	
Vanadium		3020034	63	66	4.7%	< 1	95%	70%	130%	102%	90%	110%	101%	80%	120%	
Zinc		3020034	73	71	2.8%	< 1	94%	70%	130%	107%	90%	110%	106%	80%	120%	
pH 1:2		3021236	6.9	6.6	4.4%	< 0.1				100%	95%	105%	100%	90%	110%	

Certified By: 

Quality Assurance

CLIENT NAME: FRANZ ENVIRONMENTAL

AGAT WORK ORDER: 11V560784

PROJECT NO: 2090-1103

ATTENTION TO: Amanda Salway

Trace Organics Analysis															
RPT Date: Dec 23, 2011			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Petroleum Hydrocarbons in Soil															
Methyl tert-butyl ether (MTBE)	1	3020046	<0.1	<0.1	0.0%	< 0.1	99%	80%	120%			91%	70%	130%	
Benzene	1	3020046	<0.02	<0.02	0.0%	< 0.02	100%	80%	120%			93%	70%	130%	
Toluene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			90%	70%	130%	
Ethylbenzene	1	3020046	<0.05	<0.05	0.0%	< 0.05	98%	80%	120%			85%	70%	130%	
m&p-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	103%	80%	120%			79%	70%	130%	
o-Xylene	1	3020046	<0.05	<0.05	0.0%	< 0.05	104%	80%	120%			84%	70%	130%	
Styrene	1	3020046	<0.05	<0.05	0.0%	< 0.05	99%	80%	120%			85%	70%	130%	
VPH	1	3020046	<10	<10	0.0%	< 10									
Naphthalene	1	3018978	0.02	0.02	0.0%	< 0.01	102%	80%	120%			105%	50%	130%	
2-Methylnaphthalene	1	3018978	0.01	0.01	0.0%	< 0.01	103%	80%	120%			99%	50%	130%	
1-Methylnaphthalene	1	3018978	<0.01	0.01	0.0%	< 0.01	103%	80%	120%			102%	50%	130%	
Acenaphthylene	1	3018978	0.01	0.01	0.0%	< 0.01	102%	80%	120%			94%	50%	130%	
Acenaphthene	1	3018978	NA	NA	0.0%	< 0.01	105%	80%	120%			90%	50%	130%	
Fluorene	1	3018978	<0.02	0.02	0.0%	< 0.02	102%	80%	120%			95%	50%	130%	
Phenanthrene	1	3018978	0.04	0.05	22.0%	< 0.02	98%	80%	120%			92%	60%	130%	
Anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	103%	80%	120%			79%	60%	130%	
Fluoranthene	1	3018978	<0.05	<0.05	0.0%	< 0.05	100%	80%	120%			96%	60%	130%	
Pyrene	1	3018978	0.06	0.05	18.0%	< 0.02	100%	80%	120%			98%	60%	130%	
Benzo(a)anthracene	1	3018978	0.02	0.02	0.0%	< 0.02	102%	80%	120%			88%	60%	130%	
Chrysene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			94%	60%	130%	
Benzo(b)fluoranthene	1	3018978	0.02	0.02	0.0%	< 0.02	101%	80%	120%			87%	60%	130%	
Benzo(k)fluoranthene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			91%	60%	130%	
Benzo(a)pyrene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			90%	60%	130%	
Indeno(1,2,3-c,d)pyrene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			90%	60%	130%	
Dibenzo(a,h)anthracene	1	3018978	<0.02	<0.02	0.0%	< 0.02	101%	80%	120%			88%	60%	130%	
Benzo(g,h,i)perylene	1	3018978	<0.05	<0.05	0.0%	< 0.05	101%	80%	120%			93%	60%	130%	
Nitrobenzene - d5	1	3018978	81	90	11.0%	<	100%	80%	120%			100%	50%	130%	
2-Fluorobiphenyl	1	3018978	86	94	9.0%	<	101%	80%	120%			91%	50%	130%	
P-Terphenyl - d14	1	3018978	90	99	10.0%	<	98%	80%	120%			88%	50%	130%	
LEPH C10-C19	1	3018978	<25	<25	0.0%	< 25									
HEPH C19-C32	1	3018978	<25	<25	0.0%	< 25									
Bromofluorobenzene	1	3020046	103	81.8	23.0%	<	108%	70%	130%			108%	70%	130%	
Toluene - d8	1	3020046	124	92.9	29.0%	<	100%	70%	130%			111%	70%	130%	
Petroleum Hydrocarbons (BTEX/F1-F4) in Soil (CWS)															
C10 - C16 (F2)	1381	3021234	13	37	96.0%	< 10	108%	80%	120%	95%	80%	120%	121%	60%	140%
C16 - C34 (F3)	1381	3021234	136	84	47.0%	< 10	108%	80%	120%	105%	80%	120%	116%	60%	140%
C34 - C50 (F4)	1381	3021234	80	58	32.0%	< 10	108%	80%	120%	112%	80%	120%	116%	60%	140%

Phenolic Compounds in Soil