



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.16
Sample Tag: 112108-SW-C-01-11
Collected Date/Time: 09/26/2008 15:20
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Metal Digestion (Replicate 01)	Completed			3015A	10/10/08 12:00	SLS		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	4,520	umhos/cm		120.1	09/30/08 13:40	JKB		
pH	9.61	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	80	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Hot Water Extraction	Completed				10/09/08 18:10	TAS		
Sodium Adsorption Ratio	25.9			20B	09/30/08 15:00	BJR		
Arsenic	4.01	mg/kg	0.10	6020	09/30/08 14:07	SLS	7440-38-2	
Barium	75.6	mg/kg	1.0	6020	09/30/08 14:07	SLS	7440-39-3	
Boron	7.42	mg/kg	2.0	6020	09/30/08 14:07	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:07	SLS	7440-43-9	
Chromium	1.1	mg/kg	1.0	6020	09/30/08 14:07	SLS	7440-47-3	
Copper	12.8	mg/kg	1.0	6020	09/30/08 14:07	SLS	7440-50-8	
Lead	15.1	mg/kg	0.50	6020	09/30/08 14:07	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 15:59	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:07	SLS	7439-98-7	
Nickel	8.4	mg/kg	1.0	6020	09/30/08 14:07	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:07	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:07	SLS	7440-22-4	
Zinc	38.7	mg/kg	1.0	6020	09/30/08 14:07	SLS	7440-66-6	
Boron	1.84	mg/L	0.02	200.8	10/10/08 14:49	SLS	7440-42-8	
Calcium	37.1	mg/L	2.0	200.8	09/30/08 13:22	PER	7440-70-2	
Magnesium	63.6	mg/L	0.4	200.8	09/30/08 13:22	PER	7439-95-4	
Sodium	1,120	mg/L	0.4	200.8	09/30/08 13:22	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	3,290,000	ug/kg	100,000	8015B	09/30/08 00:59	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 00:59	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	29,400,000	ug/kg	700,000	8015M	09/30/08 20:02	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.17
Sample Tag: 112108-SW-C-03-11
Collected Date/Time: 09/26/2008 15:25
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	9,400	umhos/cm		120.1	09/30/08 13:45	JKB		
pH	8.13	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	88	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	8.03			20B	09/30/08 15:00	BJR		
Arsenic	0.60	mg/kg	0.10	6020	09/30/08 14:11	SLS	7440-38-2	
Barium	41.5	mg/kg	1.0	6020	09/30/08 14:11	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	09/30/08 14:11	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:11	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	09/30/08 14:11	SLS	7440-47-3	
Copper	2.6	mg/kg	1.0	6020	09/30/08 14:11	SLS	7440-50-8	
Lead	3.71	mg/kg	0.50	6020	09/30/08 14:11	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:01	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:11	SLS	7439-98-7	
Nickel	3.5	mg/kg	1.0	6020	09/30/08 14:11	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:11	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:11	SLS	7440-22-4	
Zinc	2.8	mg/kg	1.0	6020	09/30/08 14:11	SLS	7440-66-6	
Calcium	2,010	mg/L	2.0	200.8	09/30/08 13:24	PER	7440-70-2	
Magnesium	1,120	mg/L	0.4	200.8	09/30/08 13:24	PER	7439-95-4	
Sodium	1,810	mg/L	0.4	200.8	09/30/08 13:24	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	3,290,000	ug/kg	100,000	8015B	09/30/08 01:20	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 01:20	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	21,100,000	ug/kg	600,000	8015M	09/30/08 20:20	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.18
Sample Tag: 112108-SW-C-01-13
Collected Date/Time: 09/26/2008 15:30
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	3,370	umhos/cm		120.1	09/30/08 13:50	JKB		
pH	9.32	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	81	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	25.6			20B	09/30/08 15:00	BJR		
Arsenic	3.65	mg/kg	0.10	6020	09/30/08 14:15	SLS	7440-38-2	
Barium	52.9	mg/kg	1.0	6020	09/30/08 14:15	SLS	7440-39-3	
Boron	6.22	mg/kg	2.0	6020	09/30/08 14:15	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:15	SLS	7440-43-9	
Chromium	1.0	mg/kg	1.0	6020	09/30/08 14:15	SLS	7440-47-3	
Copper	10.4	mg/kg	1.0	6020	09/30/08 14:15	SLS	7440-50-8	
Lead	12.5	mg/kg	0.50	6020	09/30/08 14:15	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:03	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:15	SLS	7439-98-7	
Nickel	6.7	mg/kg	1.0	6020	09/30/08 14:15	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:15	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:15	SLS	7440-22-4	
Zinc	28.6	mg/kg	1.0	6020	09/30/08 14:15	SLS	7440-66-6	
Calcium	56.9	mg/L	2.0	200.8	09/30/08 13:25	PER	7440-70-2	
Magnesium	61.6	mg/L	0.4	200.8	09/30/08 13:25	PER	7439-95-4	
Sodium	1,170	mg/L	0.4	200.8	09/30/08 13:25	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	2,820,000	ug/kg	100,000	8015B	09/30/08 01:41	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 01:41	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	23,300,000	ug/kg	700,000	8015M	09/30/08 20:38	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.19
Sample Tag: 112108-SW-C-03-13
Collected Date/Time: 09/26/2008 15:35
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	4,580	umhos/cm		120.1	09/30/08 13:55	JKB		
pH	9.72	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	82	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	45.8			20B	09/30/08 15:00	BJR		
Arsenic	3.48	mg/kg	0.10	6020	09/30/08 14:19	SLS	7440-38-2	
Barium	42.9	mg/kg	1.0	6020	09/30/08 14:19	SLS	7440-39-3	
Boron	3.72	mg/kg	2.0	6020	09/30/08 14:19	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:19	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	09/30/08 14:19	SLS	7440-47-3	
Copper	10.4	mg/kg	1.0	6020	09/30/08 14:19	SLS	7440-50-8	
Lead	13.0	mg/kg	0.50	6020	09/30/08 14:19	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:05	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:19	SLS	7439-98-7	
Nickel	7.0	mg/kg	1.0	6020	09/30/08 14:19	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:19	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:19	SLS	7440-22-4	
Zinc	29.6	mg/kg	1.0	6020	09/30/08 14:19	SLS	7440-66-6	
Calcium	6.46	mg/L	2.0	200.8	09/30/08 13:27	PER	7440-70-2	
Magnesium	39.2	mg/L	0.4	200.8	09/30/08 13:27	PER	7439-95-4	
Sodium	1,400	mg/L	0.4	200.8	09/30/08 13:27	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	960,000	ug/kg	100,000	8015B	09/30/08 02:02	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 02:02	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	13,000,000	ug/kg	1,000,000	8015M	09/30/08 21:14	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.20
Sample Tag: 112108-SW-B-01-06
Collected Date/Time: 09/26/2008 15:40
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	2,160	umhos/cm		120.1	09/30/08 14:00	JKB		
pH	8.96	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	80	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	19.5			20B	09/30/08 15:00	BJR		
Arsenic	7.16	mg/kg	0.10	6020	09/30/08 14:23	SLS	7440-38-2	
Barium	58.8	mg/kg	1.0	6020	09/30/08 14:23	SLS	7440-39-3	
Boron	6.37	mg/kg	2.0	6020	09/30/08 14:23	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:23	SLS	7440-43-9	
Chromium	1.2	mg/kg	1.0	6020	09/30/08 14:23	SLS	7440-47-3	
Copper	13.4	mg/kg	1.0	6020	09/30/08 14:23	SLS	7440-50-8	
Lead	15.3	mg/kg	0.50	6020	09/30/08 14:23	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:07	JRT	7439-97-6	
Molybdenum	0.59	mg/kg	0.50	6020	09/30/08 14:23	SLS	7439-98-7	
Nickel	8.4	mg/kg	1.0	6020	09/30/08 14:23	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:23	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:23	SLS	7440-22-4	
Zinc	41.6	mg/kg	1.0	6020	09/30/08 14:23	SLS	7440-66-6	
Calcium	72.4	mg/L	2.0	200.8	09/30/08 13:29	PER	7440-70-2	
Magnesium	44.8	mg/L	0.4	200.8	09/30/08 13:29	PER	7439-95-4	
Sodium	857	mg/L	0.4	200.8	09/30/08 13:29	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,800,000	ug/kg	100,000	8015B	09/30/08 02:23	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 02:23	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	35,000,000	ug/kg	2,000,000	8015M	09/30/08 20:56	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.21
Sample Tag: 112108-SW-B-01-11
Collected Date/Time: 09/26/2008 15:45
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	1,740	umhos/cm		120.1	09/30/08 14:30	JKB		
pH	8.92	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	85	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	13.6			20B	09/30/08 15:00	BJR		
Arsenic	2.94	mg/kg	0.10	6020	09/30/08 14:47	SLS	7440-38-2	
Barium	49.4	mg/kg	1.0	6020	09/30/08 14:47	SLS	7440-39-3	
Boron	3.44	mg/kg	2.0	6020	09/30/08 14:47	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:47	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	09/30/08 14:47	SLS	7440-47-3	
Copper	8.0	mg/kg	1.0	6020	09/30/08 14:47	SLS	7440-50-8	
Lead	10.3	mg/kg	0.50	6020	09/30/08 14:47	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:09	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:47	SLS	7439-98-7	
Nickel	6.8	mg/kg	1.0	6020	09/30/08 14:47	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:47	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:47	SLS	7440-22-4	
Zinc	28.4	mg/kg	1.0	6020	09/30/08 14:47	SLS	7440-66-6	
Calcium	18.5	mg/L	2.0	200.8	09/30/08 13:41	PER	7440-70-2	
Magnesium	27.1	mg/L	0.4	200.8	09/30/08 13:41	PER	7439-95-4	
Sodium	391	mg/L	0.4	200.8	09/30/08 13:41	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,970,000	ug/kg	100,000	8015B	09/30/08 02:44	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 02:44	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	26,000,000	ug/kg	1,000,000	8015M	10/01/08 00:16	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.22
Sample Tag: 112108-SW-B-03-11
Collected Date/Time: 09/26/2008 15:50
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	1,310	umhos/cm		120.1	09/30/08 14:35	JKB		
pH	8.91	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	86	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	11.2			20B	09/30/08 15:00	BJR		
Arsenic	3.66	mg/kg	0.10	6020	09/30/08 14:51	SLS	7440-38-2	
Barium	49.2	mg/kg	1.0	6020	09/30/08 14:51	SLS	7440-39-3	
Boron	3.54	mg/kg	2.0	6020	09/30/08 14:51	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:51	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	09/30/08 14:51	SLS	7440-47-3	
Copper	7.3	mg/kg	1.0	6020	09/30/08 14:51	SLS	7440-50-8	
Lead	10.6	mg/kg	0.50	6020	09/30/08 14:51	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:11	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:51	SLS	7439-98-7	
Nickel	5.1	mg/kg	1.0	6020	09/30/08 14:51	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:51	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:51	SLS	7440-22-4	
Zinc	28.7	mg/kg	1.0	6020	09/30/08 14:51	SLS	7440-66-6	
Calcium	13.2	mg/L	2.0	200.8	09/30/08 13:42	PER	7440-70-2	
Magnesium	27.9	mg/L	0.4	200.8	09/30/08 13:42	PER	7439-95-4	
Sodium	314	mg/L	0.4	200.8	09/30/08 13:42	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,520,000	ug/kg	100,000	8015B	09/30/08 03:05	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 03:05	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	31,000,000	ug/kg	1,000,000	8015M	10/01/08 01:29	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.23
Sample Tag: 112108-SW-B-01-13
Collected Date/Time: 09/26/2008 15:55
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	1,827	umhos/cm		120.1	09/30/08 14:55	JKB		
pH	9.29	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	80	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	10.8			20B	09/30/08 15:00	BJR		
Arsenic	3.64	mg/kg	0.10	6020	09/30/08 14:54	SLS	7440-38-2	
Barium	72.3	mg/kg	1.0	6020	09/30/08 14:54	SLS	7440-39-3	
Boron	5.55	mg/kg	2.0	6020	09/30/08 14:54	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:54	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	09/30/08 14:54	SLS	7440-47-3	
Copper	11.1	mg/kg	1.0	6020	09/30/08 14:54	SLS	7440-50-8	
Lead	13.3	mg/kg	0.50	6020	09/30/08 14:54	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:12	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:54	SLS	7439-98-7	
Nickel	8.0	mg/kg	1.0	6020	09/30/08 14:54	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:54	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:54	SLS	7440-22-4	
Zinc	31.8	mg/kg	1.0	6020	09/30/08 14:54	SLS	7440-66-6	
Calcium	39.4	mg/L	2.0	200.8	09/30/08 13:44	PER	7440-70-2	
Magnesium	84.8	mg/L	0.4	200.8	09/30/08 13:44	PER	7439-95-4	
Sodium	523	mg/L	0.4	200.8	09/30/08 13:44	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,660,000	ug/kg	100,000	8015B	09/30/08 03:26	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 03:26	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	29,000,000	ug/kg	1,000,000	8015M	10/01/08 00:52	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38365.24
Sample Tag: 112108-SW-B-03-13
Collected Date/Time: 09/26/2008 16:00
Matrix: Soil
COC Reference: 51085

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	09/29/08 14:22	PL		
Mercury Digestion	Completed			7471A	09/30/08 12:30	JRT		
Metal Digestion	Completed			3050B	09/30/08 12:00	SLS		
Metal Digestion	Completed			3015A	09/30/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	09/29/08 14:04	DJS		

Inorganics

Conductivity	2,880	umhos/cm		120.1	09/30/08 14:50	JKB		
pH	8.76	STD Units	0.1	9045D	09/29/08 17:37	WAR		
Total Solids	81	%	1	Std M 2540 B	09/29/08 10:00	DJS		

Metals

Sodium Adsorption Ratio	8.31			20B	09/30/08 15:00	BJR		
Arsenic	3.27	mg/kg	0.10	6020	09/30/08 14:58	SLS	7440-38-2	
Barium	73.1	mg/kg	1.0	6020	09/30/08 14:58	SLS	7440-39-3	
Boron	2.78	mg/kg	2.0	6020	09/30/08 14:58	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	09/30/08 14:58	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	09/30/08 14:58	SLS	7440-47-3	
Copper	11.1	mg/kg	1.0	6020	09/30/08 14:58	SLS	7440-50-8	
Lead	13.9	mg/kg	0.50	6020	09/30/08 14:58	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	09/30/08 16:14	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	09/30/08 14:58	SLS	7439-98-7	
Nickel	6.5	mg/kg	1.0	6020	09/30/08 14:58	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	09/30/08 14:58	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	09/30/08 14:58	SLS	7440-22-4	
Zinc	27.5	mg/kg	1.0	6020	09/30/08 14:58	SLS	7440-66-6	
Calcium	160	mg/L	2.0	200.8	09/30/08 13:46	PER	7440-70-2	
Magnesium	203	mg/L	0.4	200.8	09/30/08 13:46	PER	7439-95-4	
Sodium	671	mg/L	0.4	200.8	09/30/08 13:46	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,780,000	ug/kg	100,000	8015B	09/30/08 03:47	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	09/30/08 03:47	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	23,000,000	ug/kg	1,000,000	8015M	10/01/08 01:10	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration

Merit

Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
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C.O.C. PAGE # 1 OF 2

51083

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Marisa Patterson (Stantec)
COMPANY: Stantec Consulting Corp.
ADDRESS: 2321 Club Meridian Dr. Suite E
CITY: Okeemos STATE: MT ZIP CODE: 48864
PHONE NO.: 517-349-9499 FAX NO.: 517-349-6863 P.O. NO.:
E-MAIL ADDRESS: marisa.patterson@stantec.com QUOTE NO.: 080915-a

CONTACT NAME: SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:

PROJECT NO./NAME: South Canyon SAMPLER(S) - PLEASE PRINT: On-site (LAB)
TURNAROUND TIME REQUIRED: ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

Containers & Preservatives

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER
	DATE	TIME										
38365.01	092608	1140	112108-EF-A-01		2							
02		1150	112108-EF-A-03									
03		1200	112108-EF-A-05									
04		1210	112108-EF-A-07									
05		1220	112108-EF-B-01									
06		1230	112108-EF-B-03									
07		1240	112108-EF-B-05									
08		1550	112108-EF-B-07									
09		1405	112108-B-08									
10		1430	112108-SW-A-01-00									
11		1440	112108-SW-A-01-03									
12		1450	112108-SW-A-03-03									

TPH	X											
Conductivity (uM)	X											
PH	X											
SAR (ZOB)	X											
Metals (As, Ba, B, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn)	X											
Co-Zn (7477A)												

RELINQUISHED BY: Stantec DATE: 092608 TIME: 1800
RECEIVED BY: Barbara Richard DATE: 9-29-08 TIME: 8:00
RELINQUISHED BY: Stantec DATE: 092608 TIME: 1800
RECEIVED BY: Barbara Richard DATE: 9-29-08 TIME: 8:00

RELINQUISHED BY: Barbara Richard DATE: 9-29-08 TIME: 8:00
RECEIVED BY: Barbara Richard DATE: 9-29-08 TIME: 8:00
SEAL NO. SEAL INTACT YES... NO... INITIALS NOTES TEMP. ON ARRIVAL 44

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



51085

INVOICE TOANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

Containers & Expenses

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



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Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

51083

INVOICE TO

REPORT TO

CONTACT NAME: Marisa Patterson (Stantec)
COMPANY: Stantec Consulting Corp.
ADDRESS: 2321 Club Meridian Dr. Suite E
CITY: Okemos
STATE: MI ZIP CODE: 48864
PHONE NO: 517 349 9199 FAX NO: 517-349-6863
E-MAIL ADDRESS: marisa.patterson@stantec.com
PROJECT NO./NAME: South Canyon

CHAIN OF CUSTODY RECORD

CONTACT NAME: [X] SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO: FAX NO: P.O. NO:

QUOTE NO: 080915-A

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SAMPLE(S) - PLEASE PRINT SAMPLE NAME: Chris Ball (OAB)

SPECIAL INSTRUCTIONS/NOTES

TURNAROUND TIME REQUIRED: ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GROUNDWATER SURGE WASTEWATER O-DI SOLID A-AIR L-HOLID W-WASTE SD-SOLID M-MISC

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MAGH	OTHER	TPW	Conc	H ₂ O ₂	SA	MA
	DATE	TIME															
	07/26/08	1140	112108-EF-A- 25 -07	S	2								X	X	X	X	X
		1150	112108-EF-A- 23 -09														
		1200	112108-EF-A- 05 -11														
		1210	112108-EF-A- 07 -13														
		1220	112108-EF-B- 04 -07														
		1230	112108-EF-B- 03 -09														
		1240	112108-EF-B- 05 -11														
		1550	112108-EF-B- 07 -13														
		1405	112108-B-08--14														
		1430	112108-SW-A-01- 00 06														
		1440	112108-SW-A-01- 03 06														
		1450	112108-SW-A-03- 03 06														

RELINQUISHED BY: SIGNATURE/ORGANIZATION

RECEIVED BY: SIGNATURE/ORGANIZATION

RELINQUISHED BY: SIGNATURE/ORGANIZATION

RECEIVED BY: SIGNATURE/ORGANIZATION

DATE: 072608 TIME: 1800

DATE: TIME:

DATE: TIME:

DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION

RECEIVED BY: SIGNATURE/ORGANIZATION

SEAL NO.

SEAL INTACT YES ☐ NO ☐

INITIALS

NOTES: TEMP. ON ARRIVAL

SEAL NO.

SEAL INTACT YES ☐ NO ☐

INITIALS

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

SEP-28-2008 08:52 PM COMFORT INN

9702452525

P. 06



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Phone (517) 332-0167
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

51085

INVOICE T

REPORT TO

CHAIN OF CUSTODY RECORD

CONTACT NAME: Marisa Patterson
COMPANY: Stattec Consulting Corp.
ADDRESS: 2321 Club Meridian Dr Suite E
CITY: Okemos
STATE: MI ZIP CODE: 48864
PHONE NO: 517-349-7499 FAX NO: 517-349-6863
E-MAIL ADDRESS: marisa.patterson@stattec.com
P.O. NO.:
QUOTE NO.: 080915-01

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY:
PHONE NO.: FAX NO.:
STATE: ZIP CODE:
P.O. NO.:

PROJECT NO./NAME: South Canyon
TURNAROUND TIME REQUIRED: ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW-GROUNDWATER SL-SLUDGE
WW-WASTEWATER O-OR
S-SOIL A-AIR
L-LIQUID W-WASTE
SD-SOLID M-MISC

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION DESCRIPTION	Preservatives																	
	DATE	TIME		MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	NaOH	OTHER	ACC	COND	PH	SAR	INT	CC	H2O	SP	CO
	092606	1455	112108-SW-A-01-05	11	S	2	X							X	X	X	X	X			
		1505	112108-SW-A-03-05	11											X	X	X				
		1515	112108-SW-C-01-00	06																	
		1520	112108-SW-C-01-05	11																	
		1525	112108-SW-C-03-05	11																	
		1530	112108-SW-C-01-07	13																	
		1535	112108-SW-C-03-07	13																	
		1540	112108-SW-B-01-00	06																	
		1545	112108-SW-B-01-05	11																	
		1550	112108-SW-B-03-05	11																	
		1555	112108-SW-B-01-07	13																	
		1600	112108-SW-B-03-07	13																	

RELINQUISHED BY:

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

RELINQUISHED BY:
SIGNATURE/ORGANIZATION: Stattec
DATE: 092606 TIME: 1600
RECEIVED BY:
SIGNATURE/ORGANIZATION:
DATE: TIME:
RELINQUISHED BY:
SIGNATURE/ORGANIZATION:
RECEIVED BY:
SIGNATURE/ORGANIZATION:
DATE: TIME:
DATE: TIME:

RELINQUISHED BY:
SIGNATURE/ORGANIZATION:
DATE: TIME:
RECEIVED BY:
SIGNATURE/ORGANIZATION:
SEAL NO.: SEAL INTACT YES ☐ NO ☐ INITIALS:
SEAL NO.: SEAL INTACT YES ☐ NO ☐ INITIALS:
NOTES: TEMP. ON ARRIVAL:
DATE: TIME:

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

SEP-12-2006 08:52 AM CONFORT INN

9702452325

P. 07



Analytical Laboratory Report

Supplemental Report

Report ID: S38572.01(04)
Generated on 10/20/2008
Replaces report S38572.01(03) generated on 10/16/2008

Report to

Attention: Marisa Patterson
Stantec
2321 Club Meridian Dr. #E
Okemos, MI 48864-4505
MSA# 94023

Phone: 517-349-9499 FAX: 517-349-6863
Email: marisa.patterson@stantec.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S38572.01-S38572.12
Project: South Canyon
Collected Date: 10/07/2008 - 10/09/2008
Submitted Date/Time: 10/10/2008 10:00
Sampled by: LF Boone
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S38572.01	112108-SW-B-12-20	Soil	10/07/2008 11:30
S38572.02	112108-SW-B-13.5-18	Soil	10/07/2008 11:45
S38572.03	112108-SW-C-09-14	Soil	10/07/2008 18:00
S38572.04	112108-EF-B-30	Soil	10/08/2008 11:50
S38572.05	112108-EF-A-30	Soil	10/08/2008 16:45
S38572.06	111793-EF-A-13	Soil	10/09/2008 10:35
S38572.07	111793-EF-A-15	Soil	10/09/2008 10:50
S38572.08	111793-EF-B-15	Soil	10/09/2008 11:49
S38572.09	111793-EF-B-13	Soil	10/09/2008 12:02
S38572.10	111793-SW-C-07-09	Soil	10/09/2008 13:20
S38572.11	111793-EF-B-17	Soil	10/09/2008 13:50
S38572.12	111793-EF-A-17	Soil	10/09/2008 14:04



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.01
Sample Tag: 112108-SW-B-12-20
Collected Date/Time: 10/07/2008 11:30
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/10/08 11:00	PCS		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.02
Sample Tag: 112108-SW-B-13.5-18
Collected Date/Time: 10/07/2008 11:45
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	15,250	umhos/cm		120.1	10/13/08 11:20	JKB		
pH	8.42	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	90	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	31.7			20B	10/14/08 08:00	BJR		
Arsenic	0.82	mg/kg	0.10	6020	10/13/08 12:30	SLS	7440-38-2	
Barium	15.3	mg/kg	1.0	6020	10/13/08 12:30	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:30	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/13/08 12:30	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/13/08 12:30	SLS	7440-47-3	
Copper	1.9	mg/kg	1.0	6020	10/13/08 12:30	SLS	7440-50-8	
Lead	4.15	mg/kg	0.50	6020	10/13/08 12:30	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:33	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:30	SLS	7439-98-7	
Nickel	1.9	mg/kg	1.0	6020	10/13/08 12:30	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/13/08 12:30	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:30	SLS	7440-22-4	
Zinc	4.0	mg/kg	1.0	6020	10/13/08 12:30	SLS	7440-66-6	
Calcium	470	mg/L	1.0	200.8	10/13/08 14:13	PER	7440-70-2	
Magnesium	261	mg/L	0.20	200.8	10/13/08 14:13	PER	7439-95-4	
Sodium	3,450	mg/L	0.20	200.8	10/13/08 14:13	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/13/08 11:59	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/13/08 11:59	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/14/08 15:20	JGH		
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Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.03
Sample Tag: 112108-SW-C-09-14
Collected Date/Time: 10/07/2008 18:00
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	12,250	umhos/cm		120.1	10/13/08 11:30	JKB		
pH	8.58	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	96	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	13.4			20B	10/14/08 08:00	BJR		
Arsenic	0.49	mg/kg	0.10	6020	10/13/08 12:34	SLS	7440-38-2	
Barium	24.5	mg/kg	1.0	6020	10/13/08 12:34	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:34	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/13/08 12:34	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/13/08 12:34	SLS	7440-47-3	
Copper	Not detected	mg/kg	1.0	6020	10/13/08 12:34	SLS	7440-50-8	
Lead	2.16	mg/kg	0.50	6020	10/13/08 12:34	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:43	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:34	SLS	7439-98-7	
Nickel	1.4	mg/kg	1.0	6020	10/13/08 12:34	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/13/08 12:34	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:34	SLS	7440-22-4	
Zinc	1.7	mg/kg	1.0	6020	10/13/08 12:34	SLS	7440-66-6	
Calcium	978	mg/L	1.0	200.8	10/13/08 14:15	PER	7440-70-2	
Magnesium	367	mg/L	0.20	200.8	10/13/08 14:15	PER	7439-95-4	
Sodium	1,930	mg/L	0.20	200.8	10/13/08 14:15	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/13/08 12:20	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/13/08 12:20	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/14/08 15:38	JGH		
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Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.04
Sample Tag: 112108-EF-B-30
Collected Date/Time: 10/08/2008 11:50
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	9,120	umhos/cm		120.1	10/13/08 11:35	JKB		
pH	8.92	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	87	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	26.2			20B	10/14/08 08:00	BJR		
Arsenic	1.22	mg/kg	0.10	6020	10/13/08 12:38	SLS	7440-38-2	
Barium	26.4	mg/kg	1.0	6020	10/13/08 12:38	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:38	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/13/08 12:38	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/13/08 12:38	SLS	7440-47-3	
Copper	6.6	mg/kg	1.0	6020	10/13/08 12:38	SLS	7440-50-8	
Lead	8.91	mg/kg	0.50	6020	10/13/08 12:38	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:34	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:38	SLS	7439-98-7	
Nickel	3.9	mg/kg	1.0	6020	10/13/08 12:38	SLS	7440-02-0	
Selenium	0.25	mg/kg	0.20	6020	10/13/08 12:38	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:38	SLS	7440-22-4	
Zinc	7.3	mg/kg	1.0	6020	10/13/08 12:38	SLS	7440-66-6	
Calcium	59.6	mg/L	1.0	200.8	10/13/08 14:17	PER	7440-70-2	
Magnesium	228	mg/L	0.20	200.8	10/13/08 14:17	PER	7439-95-4	
Sodium	1,980	mg/L	0.20	200.8	10/13/08 14:17	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/13/08 12:42	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/13/08 12:42	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/14/08 15:56	JGH		
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Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.05
Sample Tag: 112108-EF-A-30
Collected Date/Time: 10/08/2008 16:45
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	5,900	umhos/cm		120.1	10/13/08 11:40	JKB		
pH	9.06	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	83	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	6.46			20B	10/14/08 08:00	BJR		
Arsenic	1.32	mg/kg	0.10	6020	10/13/08 12:43	SLS	7440-38-2	
Barium	40.7	mg/kg	1.0	6020	10/13/08 12:43	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:43	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/13/08 12:43	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/13/08 12:43	SLS	7440-47-3	
Copper	6.1	mg/kg	1.0	6020	10/13/08 12:43	SLS	7440-50-8	
Lead	7.98	mg/kg	0.50	6020	10/13/08 12:43	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:36	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:43	SLS	7439-98-7	
Nickel	4.0	mg/kg	1.0	6020	10/13/08 12:43	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/13/08 12:43	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:43	SLS	7440-22-4	
Zinc	6.3	mg/kg	1.0	6020	10/13/08 12:43	SLS	7440-66-6	
Calcium	538	mg/L	1.0	200.8	10/13/08 14:19	PER	7440-70-2	
Magnesium	239	mg/L	0.20	200.8	10/13/08 14:19	PER	7439-95-4	
Sodium	716	mg/L	0.20	200.8	10/13/08 14:19	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/13/08 13:03	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/13/08 13:03	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/14/08 14:44	JGH		
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Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.06
Sample Tag: 111793-EF-A-13
Collected Date/Time: 10/09/2008 10:35
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/10/08 11:00	PCS		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.07
Sample Tag: 111793-EF-A-15
Collected Date/Time: 10/09/2008 10:50
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	1,010	umhos/cm		120.1	10/13/08 11:45	JKB		
pH	8.95	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	89	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	2.67			20B	10/14/08 08:00	BJR		
Arsenic	2.78	mg/kg	0.10	6020	10/13/08 12:47	SLS	7440-38-2	
Barium	181	mg/kg	1.0	6020	10/13/08 12:47	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:47	SLS	7440-42-8	
Cadmium	0.29	mg/kg	0.20	6020	10/13/08 12:47	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/13/08 12:47	SLS	7440-47-3	
Copper	8.2	mg/kg	1.0	6020	10/13/08 12:47	SLS	7440-50-8	
Lead	8.56	mg/kg	0.50	6020	10/13/08 12:47	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:38	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:47	SLS	7439-98-7	
Nickel	5.6	mg/kg	1.0	6020	10/13/08 12:47	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/13/08 12:47	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:47	SLS	7440-22-4	
Zinc	17.3	mg/kg	1.0	6020	10/13/08 12:47	SLS	7440-66-6	
Calcium	11.4	mg/L	1.0	200.8	10/13/08 14:20	PER	7440-70-2	
Magnesium	31.4	mg/L	0.20	200.8	10/13/08 14:20	PER	7439-95-4	
Sodium	77.0	mg/L	0.20	200.8	10/13/08 14:20	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	2,400,000	ug/kg	100,000	8015B	10/12/08 17:45	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/12/08 17:45	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	15,900,000	ug/kg	600,000	8015M	10/14/08 16:14	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.08
Sample Tag: 111793-EF-B-15
Collected Date/Time: 10/09/2008 11:49
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	1,330	umhos/cm		120.1	10/13/08 11:50	JKB		
pH	8.88	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	88	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	1.94			20B	10/14/08 08:00	BJR		
Arsenic	1.65	mg/kg	0.10	6020	10/13/08 12:51	SLS	7440-38-2	
Barium	129	mg/kg	1.0	6020	10/13/08 12:51	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:51	SLS	7440-42-8	
Cadmium	0.24	mg/kg	0.20	6020	10/13/08 12:51	SLS	7440-43-9	
Chromium	1.1	mg/kg	1.0	6020	10/13/08 12:51	SLS	7440-47-3	
Copper	9.4	mg/kg	1.0	6020	10/13/08 12:51	SLS	7440-50-8	
Lead	9.98	mg/kg	0.50	6020	10/13/08 12:51	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:40	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:51	SLS	7439-98-7	
Nickel	5.8	mg/kg	1.0	6020	10/13/08 12:51	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/13/08 12:51	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:51	SLS	7440-22-4	
Zinc	20.6	mg/kg	1.0	6020	10/13/08 12:51	SLS	7440-66-6	
Calcium	37.6	mg/L	1.0	200.8	10/13/08 14:22	PER	7440-70-2	
Magnesium	42.4	mg/L	0.20	200.8	10/13/08 14:22	PER	7439-95-4	
Sodium	73.1	mg/L	0.20	200.8	10/13/08 14:22	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	3,100,000	ug/kg	100,000	8015B	10/12/08 18:06	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/12/08 18:06	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	18,400,000	ug/kg	700,000	8015M	10/14/08 16:32	JGH		Y
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X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.09
Sample Tag: 111793-EF-B-13
Collected Date/Time: 10/09/2008 12:02
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/10/08 11:00	PCS		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.10
Sample Tag: 111793-SW-C-07-09
Collected Date/Time: 10/09/2008 13:20
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

DRO Extraction	Completed			3510C	10/10/08 17:39	DLR		
Mercury Digestion	Completed			7471A	10/10/08 14:30	JRT		
Metal Digestion	Completed			3050B	10/13/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/13/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/10/08 11:15	DJS		

Inorganics

Conductivity	850	umhos/cm		120.1	10/13/08 11:55	JKB		
pH	8.56	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	95	%	1	Std M 2540 B	10/10/08 11:15	DJS		

Metals

Sodium Adsorption Ratio	0.481			20B	10/14/08 08:00	BJR		
Arsenic	0.69	mg/kg	0.10	6020	10/13/08 12:56	SLS	7440-38-2	
Barium	64.7	mg/kg	1.0	6020	10/13/08 12:56	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/13/08 12:56	SLS	7440-42-8	
Cadmium	0.22	mg/kg	0.20	6020	10/13/08 12:56	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/13/08 12:56	SLS	7440-47-3	
Copper	5.1	mg/kg	1.0	6020	10/13/08 12:56	SLS	7440-50-8	
Lead	5.03	mg/kg	0.50	6020	10/13/08 12:56	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/13/08 12:42	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/13/08 12:56	SLS	7439-98-7	
Nickel	3.8	mg/kg	1.0	6020	10/13/08 12:56	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/13/08 12:56	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/13/08 12:56	SLS	7440-22-4	
Zinc	6.4	mg/kg	1.0	6020	10/13/08 12:56	SLS	7440-66-6	
Calcium	81.1	mg/L	1.0	200.8	10/13/08 14:26	PER	7440-70-2	
Magnesium	19.6	mg/L	0.20	200.8	10/13/08 14:26	PER	7439-95-4	
Sodium	18.6	mg/L	0.20	200.8	10/13/08 14:26	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	4,000	ug/kg	4,000	8015B	10/13/08 13:24	ARH		
TPH ORO (C28-C36)	5,000	ug/kg	4,000	8015M	10/13/08 13:24	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/14/08 15:02	JGH		
------------------	--------------	-------	-------	-------	----------------	-----	--	--



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.11
Sample Tag: 111793-EF-B-17
Collected Date/Time: 10/09/2008 13:50
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/15/08 22:12	EMR		
Metal Digestion	Completed			3015A	10/17/08 15:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/17/08 11:42	DJS		
Inorganics								
Conductivity	1,295	umhos/cm		120.1	10/17/08 11:40	JKB		
pH	9.47	STD Units	0.1	9045D	10/20/08 15:26	WAR		
Total Solids	89	%	1	Std M 2540 B	10/15/08 12:00	DJS		
Metals								
Sodium Adsorption Ratio	8.15			20B	10/20/08 11:00	BJR		
Calcium	3.30	mg/L	0.20	200.8	10/17/08 15:36	PER	7440-70-2	
Magnesium	20.5	mg/L	0.20	200.8	10/17/08 15:36	PER	7439-95-4	
Sodium	180	mg/L	0.20	200.8	10/17/08 15:36	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	500,000	ug/kg	100,000	8015B	10/16/08 12:39	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/16/08 12:39	ARH		XY
Organics - Volatiles								
TPH GRO (C6-C10)	8,100,000	ug/kg	600,000	8015M	10/15/08 15:28	JGH		Y

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38572.12
Sample Tag: 111793-EF-A-17
Collected Date/Time: 10/09/2008 14:04
Matrix: Soil
COC Reference: 51100

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/15/08 22:12	EMR		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	10/15/08 12:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	1,400,000	ug/kg	100,000	8015B	10/16/08 13:00	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/16/08 13:00	ARH		XY
Organics - Volatiles								
TPH GRO (C6-C10)	12,200,000	ug/kg	600,000	8015M	10/15/08 15:47	JGH		Y

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-6167 Fax (517) 332-6333
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C.O.C. PAGE # 1 OF 1

51100

PORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CT NAME Marisa Patterson
NY Stantec
SS 2321 Club Meridian Dr., Ste E
Okemos STATE MI ZIP CODE 48864
NO. 171349-9499 FAX NO. (517)349-6863 P.O. NO.
ADDRESS marisa.patterson@stantec.com QUOTE NO. 080915-01

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. FAX NO. P.O. NO.

CT NO./NAME South Canyon SAMPLER(S) - PLEASE PRINT/SIGN NAME L. Boone / L. Boone
AROUND TIME REQUIRED ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
TESTABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

IX GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
E SL-SLUDGE O-OIL A-AIR W-WASTE M-MISC

IRIT B NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives									
	DATE	TIME				NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER			
38572.01	10/07/08	1130	112108-SW-B-12-20	S	2	X									
.02		1145	- SW-B-135-18												
.03		1800	- SW-C-09-14												
.04	10/08/08	1150	- EF-B-30												
.05		1645	- EF-A-30												
.06	10/08/08	1035	111793-EF-A-13												
.07		1050	- EF-A-15												
.08		1149	- EF-B-15												
.09		1202	- EF-D-13												
.10		1320	- SW-C-07-09												
.11		1350	- EF-B-17												
.12		1404	- EF-A-17												

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

TPH (150, 200, 300, 400, 500)
Conductivity (120.1)
pH (7.045C)
SAR (2.06)
Metals (As, Ba, B, Cd, Cr, Cu, Pb, Hg, Mn, Ni, Se, Ag, Zn)
6020A/7471A

HOLD

HOLD

HOLD

HOLD

HOLD

SHIPPED BY: L. Boone DATE 10/08/08 TIME 1:00
RECEIVED BY: Paula DATE 10-10-08 TIME 1000
SHIPPED BY: Paula DATE 10-10-08 TIME 1000
RECEIVED BY: Paula DATE 10-10-08 TIME 1000

RELINQUISHED BY: Paula DATE 10-10-08 TIME 1000
RECEIVED BY: Paula DATE 10-10-08 TIME 1000
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL 9.3

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Marisa Patterson			
COMPANY Stantec			
ADDRESS 2321 Club Meridian Dr., Ste E			
CITY Okemos		STATE MI	ZIP CODE 48864
PHONE NO. (517) 349-9499		FAX NO. (517) 349-6863	P.O. NO.
E-MAIL ADDRESS marisa.patterson@stantec.com		QUOTE NO. 080915-01	

CONTACT NAME		<input type="checkbox"/> SAME	
COMPANY			
ADDRESS			
CITY		STATE	ZIP CODE
PHONE NO.	FAX NO.	P.O. NO.	

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME			SAMPLER(S) - PLEASE PRINT/SIGN NAME										SPECIAL INSTRUCTIONS/NOTES									
TURNAROUND TIME REQUIRED			DELIVERABLES REQUIRED																			
MATRIX CODE:			# Containers & Preservatives																			
YEAR			SAMPLE TAG IDENTIFICATION-DESCRIPTION																			
DATE			TIME																			
10/07/08			1130										112108-SW-B-12-20									
↓			1145										- SW-B-135-18									
↓			1800										- SW-C-9-14									
10/08/08			1150										- EF-B-30									
↓			1645										- EF-A-30									
10/09/08			1035										11793 - EF-A-13									
↓			1050										- EF-A-15									
↓			1149										- EF-B-15									
↓			1202										- EF-B-13									
↓			1320										- SW-C-7-9									
↓			1350										- EF-B-17									
↓			1404										- EF-A-17									

RELINQUISHED BY: SIGNATURE/ORGANIZATION	<i>[Signature]</i>	DATE 10/22/08	TIME 1:00
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE	TIME
SEAL NO.	SEAL INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	INITIALS	NOTES: TEMP. ON ARRIVAL _____	
SEAL NO.	SEAL INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	INITIALS		



Analytical Laboratory Report

Report ID: S38612.01(01)
Generated on 10/15/2008

Report to

Attention: Marisa Patterson
Stantec
2321 Club Meridian Dr. #E
Okemos, MI 48864-4505
MSA# 94023

Phone: 517-349-9499 FAX: 517-349-6863
Email: marisa.patterson@stantec.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S38612.01-S38612.02
Project: South Canyon
Collected Date: 10/09/2008
Submitted Date/Time: 10/14/2008 10:30
Sampled by: LF Boone
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

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A handwritten signature in cursive script that reads "Violetta F. Murshak".

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S38612.01	112108-SW-A-01-17	Soil	10/09/2008 15:20
S38612.02	112108-SW-A-03-17	Soil	10/09/2008 15:30



Analytical Laboratory Report

Lab Sample ID: S38612.01
Sample Tag: 112108-SW-A-01-17
Collected Date/Time: 10/09/2008 15:20
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/14/08 12:00	BJR		



Analytical Laboratory Report

Lab Sample ID: S38612.02
Sample Tag: 112108-SW-A-03-17
Collected Date/Time: 10/09/2008 15:30
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Mercury Digestion	Completed			7471A	10/15/08 11:30	JRT		
Metal Digestion	Completed			3050B	10/14/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/15/08 12:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/14/08 11:00	DJS		

Inorganics

Conductivity	2,595	umhos/cm		120.1	10/15/08 15:20	JKB		
pH	8.23	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	95	%	1	Std M 2540 B	10/14/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	3.49			20B	10/15/08 15:35	BJR		
Arsenic	0.61	mg/kg	0.10	6020	10/14/08 14:55	SLS	7440-38-2	
Barium	22.1	mg/kg	1.0	6020	10/14/08 14:55	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/14/08 14:55	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/14/08 14:55	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/14/08 14:55	SLS	7440-47-3	
Copper	1.8	mg/kg	1.0	6020	10/14/08 14:55	SLS	7440-50-8	
Lead	3.86	mg/kg	0.50	6020	10/14/08 14:55	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/15/08 16:13	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/14/08 14:55	SLS	7439-98-7	
Nickel	2.9	mg/kg	1.0	6020	10/14/08 14:55	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/14/08 14:55	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/14/08 14:55	SLS	7440-22-4	
Zinc	2.9	mg/kg	1.0	6020	10/14/08 14:55	SLS	7440-66-6	
Calcium	236	mg/L	1.0	200.8	10/15/08 13:01	PER	7440-70-2	
Magnesium	41.3	mg/L	0.20	200.8	10/15/08 13:01	PER	7439-95-4	
Sodium	221	mg/L	0.20	200.8	10/15/08 13:01	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/14/08 19:00	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/14/08 19:00	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	200	8015M	10/14/08 22:10	JGH		
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Merit
 Laboratories, Inc.

 2080 East Lansing Dr., East Lansing, MI 48823
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C.O.C. PAGE # 1 OF 2

51101

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME <i>Pharisa Patterson</i>				CONTACT NAME <i>Pharisa Patterson</i>			
COMPANY <i>Stantec</i>				COMPANY <i>Stantec</i>			
ADDRESS <i>2321 Club Meridian Dr., Ste E</i>				ADDRESS <i>2321 Club Meridian Dr., Ste E</i>			
CITY <i>Okemos</i>		STATE <i>MI</i>		CITY <i>Okemos</i>		STATE <i>MI</i>	
PHONE NO. <i>(517) 349-9499</i>		FAX NO. <i>(517) 349-6863</i>		PHONE NO. <i>(517) 349-9499</i>		FAX NO. <i>(517) 349-6863</i>	
EMAIL ADDRESS <i>pharisa.patterson@stantec.com</i>				EMAIL ADDRESS <i>pharisa.patterson@stantec.com</i>			
QUOTE NO. <i>080915-01</i>				QUOTE NO. <i>080915-01</i>			

PROJECT NO./NAME <i>South Canyon</i>				SAMPLE NO. PLEASE PRINT/NAME <i>27 Boone / Boone</i>				SPECIAL INSTRUCTIONS/NOTES			
TURNAROUND TIME REQUIRED <input type="checkbox"/> 24 HR <input checked="" type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> STANDARD <input type="checkbox"/> OTHER											
DELIVERABLES REQUIRED <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> OTHER											
DATE	TIME	LOCATION	DESCRIPTION	STATUS	TEST	ANALYSIS	REPORT	TPH	TPH	TPH	TPH
38612.01	10/01/08 1520	112108-SW-A-01-17		S	2	X		X	X	X	X
.02	1530	-SW-A-03-17						X	X	X	X
38613.01	1545	-SW-D-22-17						X	X	X	X
.02	1550	-SW-D-25-17						X	X	X	X
.03	1610	111763-SW-C-09-07						X	X	X	X
.04	1630	-SW-D-09-07						X	X	X	X
.05	1645	-SW-A-09-07						X	X	X	X
.06	0935	-EF-B-15						X	X	X	X
.07	0932	-EF-A-15						X	X	X	X
.08	0942	-EF-A-18						X	X	X	X
.09	0944	-EF-B-18						X	X	X	X
.10	1515	111763-EF-B-15						X	X	X	X

RELINQUISHED BY SIGNATURE/ORGANIZATION <i>Pharisa Patterson - Stantec</i>	DATE <i>10/01/08</i>	TIME <i>1520</i>	RELINQUISHED BY SIGNATURE/ORGANIZATION <i>Yarland</i>	DATE <i>10/01/08</i>	TIME <i>1030</i>
RECEIVED BY SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY SIGNATURE/ORGANIZATION	DATE	TIME

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Analytical Laboratory Report

Supplemental Report

Report ID: S38613.01(03)
Generated on 10/17/2008
Replaces report S38613.01(02) generated on 10/16/2008

Report to

Attention: Marisa Patterson
Stantec
2321 Club Meridian Dr. #E
Okemos, MI 48864-4505
MSA# 94023

Phone: 517-349-9499 FAX: 517-349-6863
Email: marisa.patterson@stantec.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S38613.01-S38613.14
Project: South Canyon
Collected Date: 10/09/2008 - 10/13/2008
Submitted Date/Time: 10/14/2008 10:30
Sampled by: LF Boone
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
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Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S38613.01	112108-SW-D-22-17	Soil	10/09/2008 15:45
S38613.02	112108-SW-D-24-17	Soil	10/09/2008 15:50
S38613.03	111762-SW-C-09-07	Soil	10/10/2008 16:10
S38613.04	111762-SW-D-09-07	Soil	10/10/2008 16:30
S38613.05	111762-SW-A-09-07	Soil	10/10/2008 16:45
S38613.06	111762-EF-B-15	Soil	10/11/2008 09:35
S38613.07	111762-EF-A-15	Soil	10/11/2008 09:37
S38613.08	111762-EF-A-18	Soil	10/11/2008 09:42
S38613.09	111762-EF-B-18	Soil	10/11/2008 09:44
S38613.10	111763-EF-B-15	Soil	10/11/2008 15:15
S38613.11	111760-SW-B-09-14	Soil	10/13/2008 09:30
S38613.12	111760-EF-B-18	Soil	10/13/2008 09:59
S38613.13	111761-SW-A-07-10	Soil	10/13/2008 10:35
S38613.14	111761-EF-A-17	Soil	10/13/2008 10:45



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.01
Sample Tag: 112108-SW-D-22-17
Collected Date/Time: 10/09/2008 15:45
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Metal Digestion	Completed			3015A	10/16/08 17:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/15/08 17:50	DJS		
Inorganics								
Conductivity	13,250	umhos/cm		120.1	10/17/08 11:20	JKB		
pH	8.33	STD Units	0.1	9045D	10/16/08 16:09	DJS		
Total Solids	90	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Metals								
Sodium Adsorption Ratio	8.39			20B	10/17/08 09:30	BJR		
Calcium	1,940	mg/L	1.0	200.8	10/16/08 17:27	PER	7440-70-2	
Magnesium	848	mg/L	0.20	200.8	10/16/08 17:27	PER	7439-95-4	
Sodium	1,760	mg/L	0.20	200.8	10/16/08 17:27	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	160,000	ug/kg	10,000	8015B	10/14/08 19:21	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	10,000	8015M	10/14/08 19:21	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	590,000	ug/kg	30,000	8015M	10/15/08 14:56	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.02
Sample Tag: 112108-SW-D-24-17
Collected Date/Time: 10/09/2008 15:50
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/14/08 12:00	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.03
Sample Tag: 111762-SW-C-09-07
Collected Date/Time: 10/10/2008 16:10
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Metal Digestion	Completed			3015A	10/16/08 17:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/15/08 17:50	DJS		
Inorganics								
Conductivity	1,210	umhos/cm		120.1	10/17/08 11:30	JKB		
pH	8.11	STD Units	0.1	9045D	10/16/08 16:09	DJS		
Total Solids	81	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Metals								
Sodium Adsorption Ratio	1.93			20B	10/17/08 09:30	BJR		
Calcium	67.9	mg/L	1.0	200.8	10/16/08 17:28	PER	7440-70-2	
Magnesium	51.4	mg/L	0.20	200.8	10/16/08 17:28	PER	7439-95-4	
Sodium	86.5	mg/L	0.20	200.8	10/16/08 17:28	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	1,500,000	ug/kg	100,000	8015B	10/14/08 15:29	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 15:29	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	8,000,000	ug/kg	1,000,000	8015M	10/14/08 19:07	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.04
Sample Tag: 111762-SW-D-09-07
Collected Date/Time: 10/10/2008 16:30
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	1,000,000	ug/kg	100,000	8015B	10/14/08 15:50	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 15:50	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	15,000,000	ug/kg	1,000,000	8015M	10/14/08 19:25	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.05
Sample Tag: 111762-SW-A-09-07
Collected Date/Time: 10/10/2008 16:45
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	2,100,000	ug/kg	100,000	8015B	10/14/08 16:11	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 16:11	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	13,000,000	ug/kg	1,000,000	8015M	10/14/08 19:43	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.06
Sample Tag: 111762-EF-B-15
Collected Date/Time: 10/11/2008 09:35
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	3,400,000	ug/kg	100,000	8015B	10/14/08 16:32	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 16:32	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	20,000,000	ug/kg	1,000,000	8015M	10/14/08 20:02	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.07
Sample Tag: 111762-EF-A-15
Collected Date/Time: 10/11/2008 09:37
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	3,300,000	ug/kg	100,000	8015B	10/14/08 16:53	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 16:53	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	40,000,000	ug/kg	1,000,000	8015M	10/14/08 20:20	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.08
Sample Tag: 111762-EF-A-18
Collected Date/Time: 10/11/2008 09:42
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/15/08 22:12	EMR		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	10/16/08 11:15	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	3,100,000	ug/kg	100,000	8015B	10/16/08 13:21	ARH		XY
TPH ORO (C28-C36)	200,000	ug/kg	100,000	8015M	10/16/08 13:21	ARH		XY
Organics - Volatiles								
TPH GRO (C6-C10)	37,000,000	ug/kg	1,000,000	8015M	10/16/08 15:04	JGH		Y

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.09
Sample Tag: 111762-EF-B-18
Collected Date/Time: 10/11/2008 09:44
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/15/08 22:12	EMR		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	10/16/08 11:15	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	4,100,000	ug/kg	200,000	8015B	10/16/08 14:54	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	200,000	8015M	10/16/08 14:54	ARH		XY
Organics - Volatiles								
TPH GRO (C6-C10)	33,000,000	ug/kg	1,000,000	8015M	10/16/08 15:23	JGH		Y

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.10
Sample Tag: 111763-EF-B-15
Collected Date/Time: 10/11/2008 15:15
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Metal Digestion	Completed			3015A	10/16/08 17:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/15/08 17:50	DJS		
Inorganics								
Conductivity	995	umhos/cm		120.1	10/17/08 11:35	JKB		
pH	8.31	STD Units	0.1	9045D	10/16/08 16:09	DJS		
Total Solids	88	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Metals								
Sodium Adsorption Ratio	0.531			20B	10/17/08 09:30	BJR		
Calcium	155	mg/L	1.0	200.8	10/16/08 17:32	PER	7440-70-2	
Magnesium	51.8	mg/L	0.20	200.8	10/16/08 17:32	PER	7439-95-4	
Sodium	29.9	mg/L	0.20	200.8	10/16/08 17:32	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	1,900,000	ug/kg	100,000	8015B	10/14/08 17:14	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 17:14	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	8,000,000	ug/kg	1,000,000	8015M	10/14/08 20:38	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.11
Sample Tag: 111760-SW-B-09-14
Collected Date/Time: 10/13/2008 09:30
Matrix: Soil
COC Reference: 51102

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	92	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	8,500,000	ug/kg	400,000	8015B	10/15/08 12:15	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	400,000	8015M	10/15/08 12:15	ARH		XY
Organics - Volatiles								
TPH GRO (C6-C10)	19,000,000	ug/kg	1,000,000	8015M	10/14/08 20:57	JGH		Y

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.12
Sample Tag: 111760-EF-B-18
Collected Date/Time: 10/13/2008 09:59
Matrix: Soil
COC Reference: 51102

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	81	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	3,200,000	ug/kg	100,000	8015B	10/14/08 17:57	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 17:57	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	30,000,000	ug/kg	1,000,000	8015M	10/14/08 21:15	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.13
Sample Tag: 111761-SW-A-07-10
Collected Date/Time: 10/13/2008 10:35
Matrix: Soil
COC Reference: 51102

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
pH	9.16	STD Units	0.1	9045D	10/14/08 14:59	WAR		
Total Solids	92	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	75,000	ug/kg	4,000	8015B	10/15/08 12:36	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/15/08 12:36	ARH		
Organics - Volatiles								
TPH GRO (C6-C10)	56,000	ug/kg	6,000	8015M	10/15/08 14:13	JGH		Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.14
Sample Tag: 111761-EF-A-17
Collected Date/Time: 10/13/2008 10:45
Matrix: Soil
COC Reference: 51102

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	85	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	9,700,000	ug/kg	400,000	8015B	10/15/08 12:57	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	400,000	8015M	10/15/08 12:57	ARH		XY
Organics - Volatiles								
TPH GRO (C6-C10)	16,000,000	ug/kg	1,000,000	8015M	10/14/08 21:52	JGH		Y

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration