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Quarterly Groundwater Monitoring Report

Red Hill Fuel Storage Facility

Pearl Harbor, Oahu, Hawaii

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Executive Summary

There are 18 active and 2 inactive, 12.5 million gallon, field-constructed underground storage tanks (USTs) located at the Red Hill Fuel Storage Facility. Previous environmental site investigations indicated a release had occurred and contaminated the groundwater underlying the Facility.

The Navy implemented a groundwater monitoring program, which includes collecting groundwater samples quarterly from U.S. Navy well 2254-01 (RHMW2254-01) and three wells installed in the Facility lower access tunnel (RHMW01, RHMW02, RHMW03). The U.S. Navy well 2254-01 is located approximately 3,000 feet downgradient from the Red Hill Fuel Storage Facility and provides approximately 24 percent of the potable water to the Pearl Harbor Water System. The groundwater samples are analyzed for petroleum constituents and compared against State of Hawaii Department of Health (DOH) Drinking Water Environmental Action Levels (EALs) (DOH, 2005a).

This groundwater monitoring report presents the analytical results and comparisons against DOH Drinking Water EALs for samples collected in April 2008. Concentration trends for chemicals that exceeded DOH Drinking Water EALs are also provided in this report.

Laboratory analytical results indicate total petroleum hydrocarbons (TPH) as diesel range organics (TPH-DRO) and polynuclear aromatic hydrocarbons (PAHs) are present in the groundwater beneath the Red Hill Fuel Storage Facility at concentrations that exceed DOH Drinking Water EALs. TPH-DRO was detected at 427 micrograms per liter ($\mu\text{g/L}$) in RHMW01, 3070 $\mu\text{g/L}$ in RHMW02, and 190 $\mu\text{g/L}$ in RHMW03. The DOH Drinking Water EAL for TPH-DRO is 100 $\mu\text{g/L}$. Three PAHs were detected in RHMW02 at concentrations above the DOH Drinking Water EALs: naphthalene at 89 $\mu\text{g/L}$ (DOH EAL is 6.2 $\mu\text{g/L}$), 1-methylnaphthalene at 73.9 $\mu\text{g/L}$ (DOH EAL is 10 $\mu\text{g/L}$), and 2-methylnaphthalene at 37.7 $\mu\text{g/L}$ (DOH EAL is 10 $\mu\text{g/L}$).

Concentrations of TPH-DRO at RHMW01 have been above the DOH Drinking Water EAL during groundwater sampling events since September 2005 and showed a decreasing trend until the January 2008 sampling event. TPH-DRO observed during the April 2008 sampling event at RHMW01 was lower than the concentration observed in January 2008, but higher than the previous four rounds. Concentrations of TPH-DRO at RHMW03 showed a decreasing trend until the January 2008 sampling event. TPH-DRO observed during the April 2008 sampling event was lower than the concentrations observed in January 2008, but higher than the previous rounds. The concentrations of TPH-DRO remained relatively stable at RHMW02, ranging from 2,250 to 3,180 $\mu\text{g/L}$, which are well above the DOH Drinking Water EAL of 100 $\mu\text{g/L}$. Concentrations of three PAHs at RHMW02 remained above the DOH Drinking Water EALs, but showed a decreasing trend over the past two years. During the April 2008 sampling round, the concentrations of these PAHs increased slightly.

The ongoing quarterly collection and analysis of groundwater samples will continue to monitor the quality of the groundwater located beneath the Red Hill Fuel Storage Facility. The analytical

results from the groundwater monitoring program will determine whether contamination presents a risk to consumers of the water within the Red Hill sub-basin.

1.0 Introduction

This report presents the results of the 11th groundwater sampling and analysis event, conducted in April 2008 at the Red Hill Fuel Storage Facility, Oahu, Hawaii (hereafter referred to as “the Facility”). The Facility consists of 18 active and 2 inactive underground storage tanks (USTs) operated by the Fleet Industrial and Supply Center (FISC), Pearl Harbor. The groundwater sampling and analysis event is part of a groundwater monitoring program for the UST site in response to past UST releases, previous environmental investigations, and recommendations from the State of Hawaii Department of Health (DOH).

1.1 Project Objective

This groundwater sampling and analysis project was performed to evaluate the presence of chemicals of potential concern in groundwater underlying the Facility. The project was conducted to ensure the Navy remains in compliance with DOH UST release response requirements as described in Hawaii Administrative Rules (HAR) 11-281 Subchapter 7, Release Response Action. The groundwater sampling and analysis procedures generally followed the procedures described in *Red Hill Bulk Fuel Storage Facility Groundwater Protection Plan* (TEC Inc [TEC], 2008).

This groundwater sampling and analysis event was conducted by TEC under Air Force Center for Engineering and the Environment (AFCEE) Contract Number F41624-03-D-8618, Task Order 021.

1.2 Previous Reports

The following groundwater monitoring reports were previously submitted to the DOH:

1. Groundwater Sampling Report, First Quarter 2005 (submitted April 2005);
2. Groundwater Sampling Report, Second Quarter 2005 (submitted August 2005);
3. Groundwater Sampling Report, Third Quarter 2005 (submitted November 2005);
4. Groundwater Sampling Report, Fourth Quarter 2005 (submitted February 2006);
5. Groundwater Monitoring Results, July 2006 (submitted September 2006);
6. Groundwater Monitoring Results, December 2006 (submitted January 2007);
7. Groundwater Monitoring Results, March 2007 (submitted May 2007);
8. Groundwater Monitoring Results, June 2007 (submitted August 2007);
9. Groundwater Monitoring Results, September 2007 (submitted October 2007); and
10. Groundwater Monitoring Results, January 2008 (submitted March 2008);

1.3 Background

The following sections provide a description of the site and information on the Facility and USTs.

1.3.1 Site Description

The Facility is located in Halawa Heights on Oahu, Hawaii. Land adjacent to the north of the Facility is occupied by Halawa Correctional Facility and private businesses. Land to the south and west of the Facility includes the Coast Guard Reservation. Moanalua Valley is located east of the Facility (Dawson, 2006).

The Navy Public Works Department operates a potable water infiltration tunnel approximately 1,550 feet hydraulically downgradient from the Facility (Dawson, 2006). The U.S. Navy well 2254-01 is located approximately 3,000 feet downgradient (west) of the Facility and provides approximately 24 percent of the potable water to the Pearl Harbor Water System, which serves approximately 52,200 military consumers (TEC, 2008).

1.3.2 Facility Information

The Facility consists of 18 active and 2 inactive USTs operated by Navy FISC Pearl Harbor. Each UST has a capacity of 12.5 million gallons. The Facility is located approximately 100 feet above the basal aquifer (Dawson, 2006).

1.3.3 UST Information

The USTs were constructed in the early 1940s. The tanks were constructed of steel and currently contain Jet Propulsion fuel 5 (JP-5) and F-76 (a marine diesel fuel). Previously, several tanks stored Navy Special Fuel Oil, Navy Distillate, aviation gasoline, and motor gasoline. Each tank measures approximately 245 feet in height and 100 feet in diameter. The upper domes of the tanks lie at depths varying between approximately 100 feet and 200 feet below the existing ground surface (TEC, 2006).

1.4 Previous Environmental Investigations

1998 to 2001: From 1998 to 2001, the Navy conducted an investigation at the Facility to assess potential releases from the fuel storage USTs and piping systems. In February 2001, the Navy installed a one-inch diameter sentinel well RHMW01 (previously known as MW-V1D) to monitor for contamination of the basal aquifer underlying the Facility. The well was installed and completed at approximately 100 feet below grade within the underground access tunnel. At the time of well completion, depth to water in RHMW01 was measured at 86 feet below grade (Dawson, 2006).

In February 2001, groundwater samples collected from sentinel well RHMW01 contained total petroleum hydrocarbons (TPH) concentrations ranging from 0.883 milligrams per liter (mg/L) to 1.05 mg/L and total lead ranging from 0.0104 mg/L to 0.015 mg/L. The maximum total lead concentration in the samples was equal to the primary drinking water standard of 0.015 mg/L for lead and exceeded the DOH Tier 1 groundwater action level of 0.0056 mg/L (Dawson, 2006).

2005 – Groundwater Sampling: The Navy began quarterly groundwater sampling at existing monitoring wells in 2005. Dawson Group, Inc. collected groundwater samples from RHMW01 and the Red Hill Navy Pump Station (U.S. Navy well 2254-01) in February, June, September, and December 2005.

Samples collected in February and June 2005 were not filtered in the field prior to analysis for lead. Analytical results for samples collected from RHMW01 indicated concentrations of total lead were above the DOH Tier 1 action level of 0.0056 mg/L. The results were not considered appropriate for risk assessment since the sample had not been filtered. In addition, lead was not a component of fuels from the tanks near RHMW01. Lead may have been part of the Facility construction material (TEC, 2007).

Samples were filtered in September and December 2005, and dissolved lead concentrations were below the DOH Tier 1 action level. Concentrations of all other contaminants of potential concern were below DOH Tier 1 action levels.

2005 – Site Investigation: As part of a site investigation, TEC installed three groundwater monitoring wells at the Facility between June and September 2005. Well RHMW02 was installed in the lower access tunnel near Tanks 5 and 6. Well RHMW03 was installed in the lower access tunnel near Tanks 13 and 14. Well RHMW04 was installed hydraulically upgradient of the USTs to provide geochemistry for water moving through the basal aquifer beneath the Facility. Wells RHMW02 and RHMW03 were completed to depths of approximately 125 feet below the tunnel floor, and well RHMW04 was completed to a depth of approximately 300 feet below ground surface outside the tunnel. Groundwater samples were collected from the three newly installed wells and two existing wells (RHMW01 and U.S. Navy well 2254-01) in September 2005.

Naphthalene and trichloroethylene were detected in samples collected from RHMW02 at concentrations greater than the DOH Tier 1 action levels. Lead was detected in the sample collected from RHMW01 at a concentration greater than the DOH Tier 1 action level; however, the sample was not filtered in the field prior to analysis. Analytical results for filtered samples obtained by Dawson during the same period indicated concentrations of dissolved lead were below the DOH Tier 1 action level.

2006 – Site Investigation: Dedicated sampling pumps were installed in five wells (RHMW01, RHMW02, RHMW03, RHMW04, and U.S. Navy well 2254-01). TEC collected groundwater samples from the wells in July 2006. The groundwater samples were analyzed for petroleum constituents. Naphthalene was detected in samples collected from RHMW02 at concentrations above the DOH Tier 1 action level.

In September 2005, with concurrence from the DOH, the Navy decided to use the newer DOH Environmental Action Levels (EALs) for the Red Hill Site Investigation and Risk Assessment project. The EALs are current and provide action levels for more chemicals, and are much more useful for conducting screening risk assessments. Since the DOH June 2005 Policy Letter stated that the two sets of action levels should not be mixed, the Tier 1 screening levels presented in

HAR Section 11-281-78 would no longer be used to evaluate environmental impact at the Facility.

2006 – Groundwater Sampling: Groundwater samples were collected in December 2006. Analytical results indicated the following:

- No chemicals were detected in groundwater from U.S. Navy well 2254-01 or RHMW03;
- TPH as diesel range organics (TPH-DRO) was detected in groundwater above the DOH Drinking Water EALs in RHMW01; and
- TPH as gasoline range organics (TPH-GRO), TPH-DRO, and naphthalene were detected in groundwater above the DOH Drinking Water EALs in RHMW02.

2007 – Groundwater Sampling: Groundwater samples were collected in March, June, and September 2007. Analytical results indicated the following:

- No chemicals were detected above DOH Drinking Water EALs at U.S. Navy well 2254-01;
- TPH-DRO exceeded DOH Drinking Water EALs at RHMW01 during all three sampling events;
- TPH-GRO exceeded DOH Drinking Water EALs at RHMW02 in March;
- TPH-DRO and naphthalene exceeded DOH Drinking Water EALs at RHMW02 during all three sampling events;
- 1-methylnaphthalene and 2-methylnaphthalene exceeded DOH Drinking Water EAL for taste and odor at RHMW02 during all three sampling events; and
- TPH-DRO exceeded DOH Drinking Water EALs at RHMW03 in June.

2008 – Groundwater Sampling: Groundwater samples were collected in January 2008. Analytical results indicated the following:

- No chemicals were detected above DOH Drinking Water EALs at U.S. Navy well 2254-01;
- TPH-DRO exceeded DOH Drinking Water EALs at RHMW01;
- TPH-GRO did not exceed DOH Drinking Water EALs at RHMW02;
- TPH-DRO and naphthalene exceeded DOH Drinking Water EALs at RHMW02;
- 1-methylnaphthalene and 2-methylnaphthalene exceeded DOH Drinking Water EAL for taste and odor at RHMW02; and
- TPH-DRO exceeded DOH Drinking Water EALs at RHMW03.

2.0 Sample Collection and Analyses

Field activities relating to groundwater sample collection were conducted on April 15, 2008. Groundwater samples were collected from three monitoring wells located inside the Facility lower access tunnel and one monitoring well located at the Red Hill Navy Pump Station. Sampling and analysis were conducted according to *Red Hill Bulk Fuel Storage Facility Groundwater Protection Plan* (TEC, 2008). A total of seven samples were collected; one normal sample from monitoring wells US Navy well 2254-01, RHMW01, RHMW02 and RHMW03, one duplicate sample from RHMW02 (Sampled as RHMWA01 and reported as RHMW02-WG11D), and one matrix spike and matrix spike duplicate from US Navy well 2254-01.

2.1 Monitoring Well Purging

The groundwater monitoring wells were purged and sampled using a dedicated pump system. Well purging was considered complete when no less than three successive water quality parameter measurements had stabilized within approximately 10 percent. Field parameters were measured at regular intervals during well purging and included pH, temperature, specific conductivity, dissolved oxygen, and turbidity. Purge water was disposed in the Facility oil/water separator system.

2.2 Groundwater Sample Collection

Each monitoring well was sampled immediately following purging. All wells were sampled directly from their dedicated bladder pump system. Samples were placed into sampling containers with appropriate preservatives (i.e., hydrochloric acid [HCl] for volatile organic analysis, nitric acid [HNO₃] for dissolved lead). Dissolved lead samples were filtered in the field and placed in preserved bottles. Sample containers were labeled with the date, sample identification number, type of analysis, and sampler's name. The containers were placed on ice in sample coolers and transported under chain-of-custody procedures to the certified laboratory for analysis.

2.3 Groundwater Sample Analyses

Groundwater samples were analyzed by SGS Environmental Service, Inc. in Anchorage, Alaska for TPH-DRO and TPH-GRO by EPA Method 8015B, volatile organic compounds (VOCs) by EPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270C SIMS, and dissolved lead by EPA Method 6020.

3.0 Groundwater Sample Analytical Results

This section provides a summary of analytical results for groundwater samples collected from three monitoring wells located in the lower access tunnel of the Facility and one monitoring well located at the Red Hill Navy Pump Station. All sample results reported for monitoring well RHMW02 are mean values of the normal sample (N) and duplicate sample (D). A summary of groundwater analytical results is included in Table 1. Complete analytical laboratory reports are provided in Appendix A.

3.1 April 2008 Sample Analytical Results

All groundwater samples were analyzed for TPH-DRO, TPH-GRO, VOCs, PAHs, and dissolved lead. No chemicals of potential concern were detected at or above the method detection limits at U.S. Navy well 2254-01. Data qualifier "F" indicates the result is between the method detection limit (MDL) and the reporting limit (RL) and considered an estimated value.

TPH-GRO was detected at RHMW01 at 13.6F µg/L, which is below the DOH Drinking Water EAL of 100 µg/L. TPH-DRO was detected at RHMW01 at 427 µg/L, which is above the DOH Drinking Water EAL of 100 µg/L. All other chemicals of potential concern were below DOH Drinking Water EALs at RHMW01.

Normal and duplicate samples were collected at RHMW02. TPH-DRO was detected at RHMW02 at 3,120N and 3,020D $\mu\text{g/L}$ (DOH EAL is 100 $\mu\text{g/L}$). Naphthalene was analyzed by EPA Method 8270 SIM and EPA Method 8260B and detected by both methods at RHMW02. EPA Method 8260B produced the highest concentrations, which were 290N and 293D $\mu\text{g/L}$ (DOH EAL is 6.2 $\mu\text{g/L}$). The concentrations of 1-methylnaphthalene and 2-methylnaphthalene were above the DOH Drinking Water EALs for taste and odor. All other chemicals of potential concern were below DOH Drinking Water EALs at RHMW02.

TPH-DRO was detected at RHMW03 at 190 $\mu\text{g/L}$, (DOH EAL of 100 $\mu\text{g/L}$). All other chemicals of potential concern were below DOH Drinking Water EALs at RHMW03.

Table 1. Analytical Results for Quarterly Groundwater Sampling Release Response Report, April 15, 2008
Red Hill Fuel Storage Facility, Hawaii

Method	Chemical	HDOH Residential Drinking Water EALs ¹ UG/L	HDOH Drinking Water Ceiling EALs ² UG/L	Units	RHMW01-WG11 UG/L April 15, 2008				RHMW02-WG11 UG/L April 15, 2008				RHMW02-WG11D UG/L April 15, 2008				RHMW03-WG11 UG/L April 15, 2008				RHMW2254-01-WG11 UG/L April 15, 2008			
					Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL
SW8015B	TPH as DIESEL RANGE ORGANICS	100	100	UG/L	427	F	85.6	428	3120	F	84.7	423	3020	F	83.3	417	190	F	82.9	415	ND	U	86	430
	TPH as GASOLINE RANGE ORGANICS	100	100	UG/L	13.6	F	10	100	58.9	F	10	100	58.9	F	10	100	ND	U	10	100	ND	U	10	100
BNASIM	1-METHYLNAPHTHALENE	240	10	UG/L	0.101		0.016	0.0532	75.8		0.777	2.59	71.9		1.55	5.15	0.0268	F	0.0165	0.0549	0.0435	F	0.016	0.0535
	2-METHYLNAPHTHALENE	240	10	UG/L	0.0789		0.016	0.0532	34.5		0.777	2.59	40.8		1.55	5.15	0.0279	F	0.0165	0.0549	0.0561	F	0.016	0.0535
	ACENAPHTHENE	370	20	UG/L	0.0406	F	0.016	0.0532	0.404		0.0155	0.0518	0.346		0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	ACENAPHTHYLENE	240	2000	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	ANTHRACENE	1800	22	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	BENZO(a)ANTHRACENE	0.092	5	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	BENZO(a)PYRENE	0.2	1.9	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	BENZO(b)FLUORANTHENE	0.092	7	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	BENZO(g,h,i)PERYLENE	1500	0.13	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	BENZO(k)FLUORANTHENE	0.92	0.4	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	CHRYSENE	92	0.8	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	DIBENZ(a,h)ANTHRACENE	0.0092	0.25	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	FLUORANTHENE	1500	130	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	FLUORENE	240	950	UG/L	0.0375	F	0.016	0.0532	0.22		0.0155	0.0518	0.187		0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
	INDENO(1,2,3-c,d)PYRENE	0.092	0.27	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535
NAPHTHALENE	62	21	UG/L	0.216		0.033	0.106	73		1.61	5.18	105		3.2	10.3	ND	U	0.0341	0.11	ND	U	0.0332	0.107	
PHENANTHRENE	240	410	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535	
PYRENE	180	68	UG/L	ND	U	0.016	0.0532	ND	U	0.0155	0.0518	ND	U	0.0155	0.0515	ND	U	0.0165	0.0549	ND	U	0.016	0.0535	
SW8260	1,1,1,2-TETRACHLOROETHANE	0.43	50000	UG/L	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	1,1,1-TRICHLOROETHANE	200	970	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,1,2,2-TETRACHLOROETHANE	0.056	500	UG/L	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	1,1,2-TRICHLOROETHANE	5	50000	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2,4-TRICHLOROBENZENE	70	3000	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.04	10	UG/L	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2
	1,2-DICHLOROPROPANE	5	10	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,3-DICHLOROBENZENE	180	50000	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	1,3-DICHLOROPROPANE	0.4	50000	UG/L	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4
	1,4-DICHLOROBENZENE	75	5	UG/L	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	ACETONE	5500	20000	UG/L	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10
	BENZENE	5	170	UG/L	ND	U	0.12	0.4	ND	U	0.12	0.4	0.15	F	0.12	0.4	ND	U	0.12	0.4	ND	U	0.12	0.4
	BROMODICHLOROMETHANE	0.18	50000	UG/L	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	BROMOFORM	100	510	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	BROMOMETHANE	8.5	50000	UG/L	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3	ND	U	0.94	3
	CARBON TETRACHLORIDE	5	520	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	CHLOROBENZENE	100	50	UG/L	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5	ND	U	0.15	0.5
	CHLOROETHANE	3.9	16	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	CHLOROFORM	100	2400	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	CHLOROMETHANE	160	50000	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	cis-1,2-DICHLOROETHENE	0	0	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	cis-1,2-DICHLOROETHYLENE	70	50000	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	DIBROMOMETHANE	0.0056	50000	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	ETHYLBENZENE	700	30	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	HEXACHLOROBUTADIENE	0.86	6	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1
	M,P-XYLENE (SUM OF ISOMERS)	10000	20	UG/L	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2	ND	U	0.62	2
	METHYL ETHYL KETONE (2-BUTANONE)	7000	8400	UG/L	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10
	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	2000	1300	UG/L	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10	ND	U	3.1	10
METHYLENE CHLORIDE	43	9100	UG/L	ND	U	1	5	ND	U	1	5	ND	U	1	5	ND	U	1	5	ND	U	1	5	
NAPHTHALENE	62	21	UG/L	ND	U	0.62	2	290		12.4	40	293		12.4	40	ND	U	0.62	2	ND	U	0.62	2	
STYRENE	100	10	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	
TETRACHLOROETHYLENE(PCE)	5	170	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	
TOLUENE	1000	40	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	
trans-1,2-DICHLOROETHENE	100	260	UG/L	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	ND	U	0.31	1	
TRICHLOROETHYLENE (TCE)	5	310	UG/L	ND	U																			

3.2 Groundwater Contaminant Trend

Groundwater samples have been collected and analyzed by TEC since September 2005. Figure 1 shows TPH trends in groundwater at the Facility. Figure 2 shows PAH trends in groundwater at the Facility. In these figures, open icons (without fill) represent the method detection limit for chemicals that were not detected.

RHMW01

TPH-GRO was not detected prior to April 2008. In April 2008, TPH-GRO was detected 13.6F $\mu\text{g/L}$, which is below the DOH Drinking Water EAL of 100 $\mu\text{g/L}$. TPH-DRO was detected above the DOH Drinking Water EAL of 100 $\mu\text{g/L}$ during all groundwater sampling events and had shown a decreasing trend until the January 2008 sampling event. Concentration of TPH-DRO observed during the April 2008 sampling event is lower than the concentrations observed in January 2008, but higher than the previous four rounds.

RHMW02

TPH-GRO was detected in seven of eight sampling events since September 2005, and exceeded the DOH Drinking Water EAL three times during 2006 and 2007. The maximum concentration detected was 148 $\mu\text{g/L}$, which is slightly above the EAL of 100 $\mu\text{g/L}$. The concentration of TPH-DRO has remained relatively stable at RHMW02, ranging from 2,250 to 3,180 $\mu\text{g/L}$, which are well above the DOH Drinking Water EAL of 100 $\mu\text{g/L}$. Although concentrations of PAHs at RHMW02 remain above the DOH Drinking Water EALs, they show a decreasing trend over the past two years.

RHMW03

TPH-GRO was not detected since September 2005. TPH-DRO had shown a decreasing trend until the January 2008 sampling event. Concentrations of TPH-DRO observed during the April 2008 sampling event are lower than the concentrations observed in January 2008, but higher than the previous rounds.

4.0 Summary and Conclusions

TPH-DRO and PAHs are present in the groundwater beneath the Facility at concentrations that exceed DOH Drinking Water EALs. The quarterly collection and analysis of groundwater samples will continue to monitor the quality of the groundwater located beneath the Facility. Groundwater monitoring reports will be submitted to the DOH upon receipt and evaluation of laboratory analytical results.

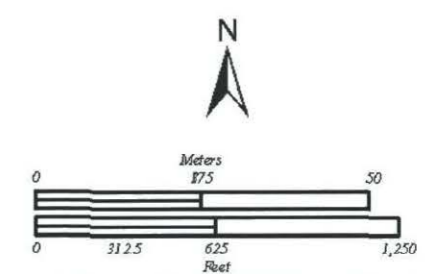
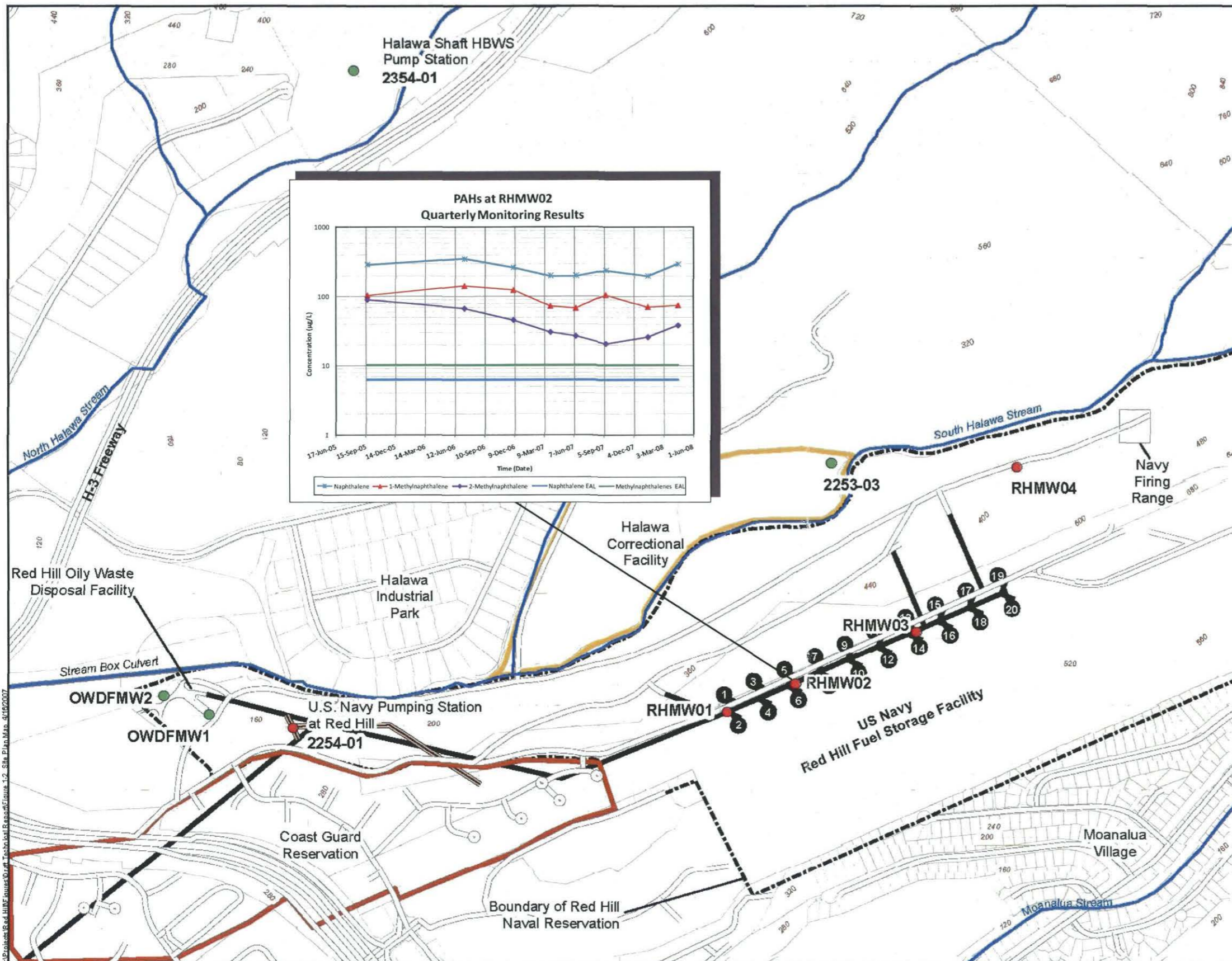


Figure 2
PAH Trends in Groundwater
Round 11 (April 15, 2008)
Red Hill Fuel Storage Facility
Oahu, Hawaii

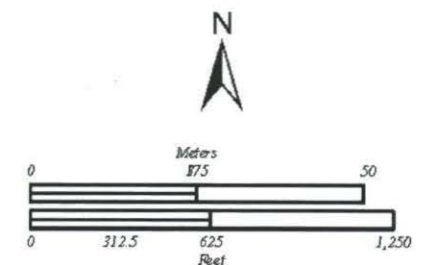
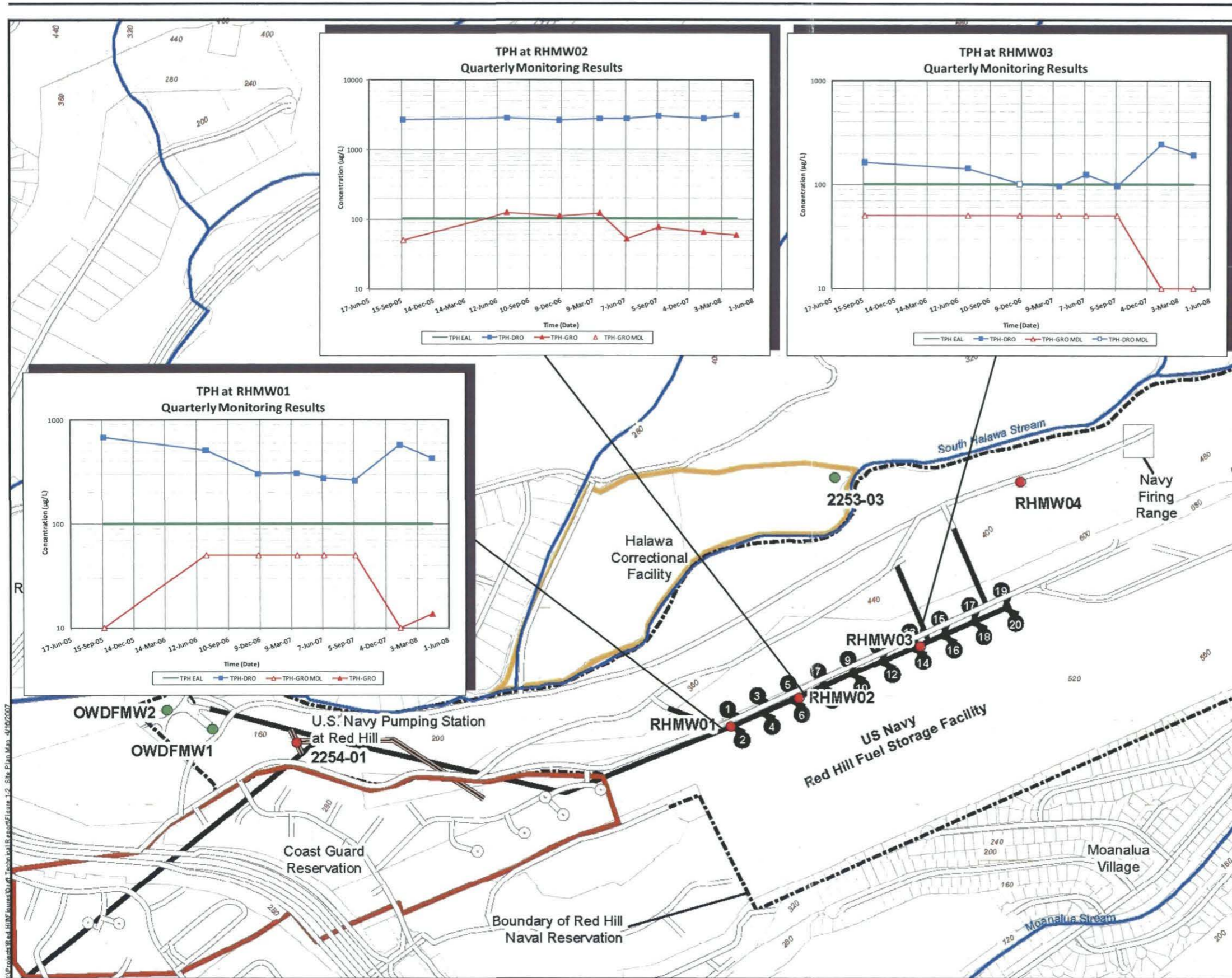


Figure 1
 TPH Trends in Groundwater
 Round 11 (April 15, 2008)
 Red Hill Fuel Storage Facility
 Oahu, Hawaii

5.0 References

Dawson Group, Inc. 2006. *Fourth Quarter 2005 Groundwater Sampling Report, Red Hill Fuel Storage Facility, Hawaii*. February.

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Appendix A
Laboratory Analytical Reports



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW03-WG-11

SGS Ref. #: 1081553004

Project ID: 9121-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time

Collection Date/Time: 04/15/08 14:15

Receipt Date/Time: 04/17/08 11:30

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Acenaphthene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Fluorene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Phenanthrene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Anthracene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Fluoranthene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Pyrene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Benzo(a)Anthracene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Chrysene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Benzo[b]Fluoranthene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Benzo[k]fluoranthene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Benzo[a]pyrene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Indeno[1,2,3-c,d] pyrene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Dibenzo[a,h]anthracene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Benzo[g,h,i]perylene	ND	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Naphthalene	ND	0.110	0.0341	ug/L	1	XMS4467	XXX19235	
1-Methylnaphthalene	0.0268 J	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
2-Methylnaphthalene	0.0279 J	0.0549	0.0165	ug/L	1	XMS4467	XXX19235	
Terphenyl-d14 <surr>	74.4	50-135		%	1	XMS4467	XXX19235	

Batch Information

Analytical Batch: XMS4467

Analytical Method: 8270D SIMS

Analysis Date/Time: 04/25/08 05:28

Dilution Factor: 1

Prep Batch: XXX19235

Prep Method: SW3520C

Prep Date/Time: 04/18/08 09:10

Initial Prep Wt./Vol.: 910 mL

Prep Extract Vol.: 1 mL

Container ID: 1081553004-J

Analyst: WAA



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW02-WG-11
SGS Ref. #: 1081553005
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 15:45
Receipt Date/Time: 04/17/08 11:30

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	ND	1.00	0.310	ug/L	5	MMS5390	MXX20161	

Batch Information

Analytical Batch: MMS5390
Analytical Method: SW6020
Analysis Date/Time: 04/23/08 17:05
Dilution Factor: 5

Prep Batch: MXX20161
Prep Method: SW3010A
Prep Date/Time: 04/22/08 07:05

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID: 1081553005-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW02-WG-11
SGS Ref. #: 1081553005
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 15:45
Receipt Date/Time: 04/17/08 11:30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	58.9 J	100	10.0	ug/L	1	VFC8905	VXX18015	
-Bromofluorobenzene <sur>	138	50-150		%	1	VFC8905	VXX18015	

Batch Information

Analytical Batch: VFC8905	Prep Batch: VXX18015	Initial Prep Wt./Vol.: 5 mL
Analytical Method: SW8015B	Prep Method: SW5030B	Prep Extract Vol.: 5 mL
Analysis Date/Time: 04/23/08 11:20	Prep Date/Time: 04/23/08 08:00	Container ID: 1081553005-A
Dilution Factor: 1		Analyst: HM



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW02-WG-11
SGS Ref. #: 1081553005
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 15:45
Receipt Date/Time: 04/17/08 11:30

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	3.12	0.423	0.0847	mg/L	1	XFC7885	XXX19238	
5a Androstane <sur>	89.6	50-150		%	1	XFC7885	XXX19238	

Batch Information

Analytical Batch: XFC7885
Analytical Method: SW8015B
Analysis Date/Time: 04/22/08 22:45
Dilution Factor: 1

Prep Batch: XXX19238
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:30

Initial Prep Wt./Vol.: 945 mL
Prep Extract Vol.: 1 mL
Container ID:1081553005-I
Analyst: BME



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW02-WG-11

All Dates/Times are Alaska Local Time

SGS Ref. #: 1081553005

Collection Date/Time: 04/15/08 15:45

Project ID: 9121-003 Red Hill BFSF

Receipt Date/Time: 04/17/08 11:30

Matrx: Water (Surface, Eff., Ground)

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Benzene	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
Toluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Butylbenzene	6.64	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
p-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
n-Propylbenzene	11.1	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Styrene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Acetone	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS9727	VXX18041	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
Chloroform	ND	1.00	0.300	ug/L	1	VMS9727	VXX18041	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS9727	VXX18041	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW02-WG-11**
SGS Ref #: 1081553005
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 15:45
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
sec-Butylbenzene	6.76	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS9727	VXX18041	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Naphthalene	290	40.0	12.4	ug/L	20	VMS9730	VXX18047	
o-Xylene	0.740 J	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromoform	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1-Chlorohexane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
tert-Butylbenzene	0.640 J	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropylbenzene (Cumene)	6.19	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane-D4 <surr>	111	73-120		%	1	VMS9727	VXX18041	
Toluene-d8 <surr>	99.7	80-120		%	1	VMS9727	VXX18041	
4-Bromofluorobenzene <surr>	94.3	76-120		%	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW02-WG-11**
SGS Ref. #: 1081553005
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 15:45
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS9727			Prep Batch: VXX18041				Initial Prep Wt./Vol.: 20 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 20 mL	
Analysis Date/Time: 04/29/08 20:11			Prep Date/Time: 04/29/08 09:00				Container ID:1081553005-B	
Dilution Factor: 1							Analyst: DSH	
Analytical Batch: VMS9730			Prep Batch: VXX18047				Initial Prep Wt./Vol.: 20 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 20 mL	
Analysis Date/Time: 04/29/08 21:36			Prep Date/Time: 04/29/08 03:34				Container ID:1081553005-E	
Dilution Factor: 20							Analyst: DSH	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW02-WG-11
SGS Ref. #: 1081553005
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 15:45
Receipt Date/Time: 04/17/08 11:30

Polynuclear Aromatics GC/MS

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Acenaphthylene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Acenaphthene	0.404	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Fluorene	0.220	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Phenanthrene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Anthracene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Fluoranthene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Pyrene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo(a)Anthracene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Chrysene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[b]Fluoranthene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[k]fluoranthene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[a]pyrene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Indeno[1,2,3-c,d] pyrene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Dibenzo[a,h]anthracene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[g,h,i]perylene	ND	0.0518	0.0155	ug/L	1	XMS4467	XXX19235	
Naphthalene	73.0	5.18	1.61	ug/L	50	XMS4469	XXX19235	
1-Methylnaphthalene	75.8	2.59	0.777	ug/L	50	XMS4469	XXX19235	
2-Methylnaphthalene	34.5	2.59	0.777	ug/L	50	XMS4469	XXX19235	
Terphenyl-d14 <surrg>	79.8	50-135		%	1	XMS4467	XXX19235	

Batch Information

Analytical Batch: XMS4467
Analytical Method: 8270D SIMS
Analysis Date/Time: 04/25/08 06:01
Dilution Factor: 1

Prep Batch: XXX19235
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:10

Initial Prep Wt./Vol.: 965 mL
Prep Extract Vol.: 1 mL
Container ID:1081553005-J
Analyst: WAA

Analytical Batch: XMS4469
Analytical Method: 8270D SIMS
Analysis Date/Time: 04/25/08 13:45
Dilution Factor: 50

Prep Batch: XXX19235
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:10

Initial Prep Wt./Vol.: 965 mL
Prep Extract Vol.: 1 mL
Container ID:1081553005-D
Analyst: WAA



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMWA01-WG-11**
SGS Ref. #: 1081553006
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:05
Receipt Date/Time: 04/17/08 11:30

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	ND	1.00	0.310	ug/L	5	MMS5390	MXX20161	

Batch Information

Analytical Batch: MMS5390
Analytical Method: SW6020
Analysis Date/Time: 04/23/08 17:12
Dilution Factor: 5

Prep Batch: MXX20161
Prep Method: SW3010A
Prep Date/Time: 04/22/08 07:05

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID: 1081553006-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMWA01-WG-11
SGS Ref. #: 1081553006
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:05
Receipt Date/Time: 04/17/08 11:30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	58.9 J	100	10.0	ug/L	1	VFC8905	VXX18015	
4-Bromofluorobenzene <sur>	139	50-150		%	1	VFC8905	VXX18015	

Batch Information

Analytical Batch: VFC8905
Analytical Method: SW8015B
Analysis Date/Time: 04/23/08 11:38
Dilution Factor: 1

Prep Batch: VXX18015
Prep Method: SW5030B
Prep Date/Time: 04/23/08 08:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1081553006-A
Analyst: HM



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMWA01-WG-11

All Dates/Times are Alaska Local Time

SGS Ref. #: 1081553006

Collection Date/Time: 04/15/08 14:05

Project ID: 9121-003 Red Hill BFSF

Receipt Date/Time: 04/17/08 11:30

Matrix: Water (Surface, Eff., Ground)

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	3.02	0.417	0.0833	mg/L	1	XFC7885	XXX19238	
Androstane <sur>	88.8	50-150		%	1	XFC7885	XXX19238	

Batch Information

Analytical Batch: XFC7885

Prep Batch: XXX19238

Initial Prep Wt./Vol.: 960 mL

Analytical Method: SW8015B

Prep Method: SW3520C

Prep Extract Vol.: 1 mL

Analysis Date/Time: 04/22/08 22:55

Prep Date/Time: 04/18/08 09:30

Container ID:1081553006-I

Dilution Factor: 1

Analyst: BME



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMWA01-WG-11
SGS Ref. #: 1081553006
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:05
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	0.150 J	0.400	0.120	ug/L	1	VMS9727	VXX18041	
Toluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Butylbenzene	6.76	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
4-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
cis-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
4-Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
n-Propylbenzene	11.3	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Styrene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Acetone	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS9727	VXX18041	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
Chloroform	ND	1.00	0.300	ug/L	1	VMS9727	VXX18041	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS9727	VXX18041	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMWA01-WG-11

SGS Ref. #: 1081553006

Project ID: 9121-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time

Collection Date/Time: 04/15/08 14:05

Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical	Prep	Qualifiers
						Batch	Batch	
Chloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
sec-Butylbenzene	6.71	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
Dichloroethylene chloride	ND	5.00	1.00	ug/L	1	VMS9727	VXX18041	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Naphthalene	293	40.0	12.4	ug/L	20	VMS9730	VXX18047	
o-Xylene	0.750 J	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromoform	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Chlorohexane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
tert-Butylbenzene	0.730 J	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropylbenzene (Cumene)	6.31	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane-D4 <surr>	101	73-120		%	1	VMS9727	VXX18041	
Toluene-d8 <surr>	98.8	80-120		%	1	VMS9727	VXX18041	
1-Bromofluorobenzene <surr>	92.6	76-120		%	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMWA01-WG-11**
SGS Ref. #: 1081553006
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:05
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS9727			Prep Batch: VXX18041				Initial Prep Wt./Vol.: 20 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 20 mL	
Analysis Date/Time: 04/29/08 20:45			Prep Date/Time: 04/29/08 09:00				Container ID:1081553006-B	
Dilution Factor: 1							Analyst: DSH	
<hr/>								
Analytical Batch: VMS9730			Prep Batch: VXX18047				Initial Prep Wt./Vol.: 20 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 20 mL	
Analysis Date/Time: 04/29/08 22:10			Prep Date/Time: 04/29/08 03:34				Container ID:1081553006-E	
Dilution Factor: 20							Analyst: DSH	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMWA01-WG-11
GS Ref. #: 1081553006
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:05
Receipt Date/Time: 04/17/08 11:30

Polynuclear Aromatics GC/MS

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Acenaphthylene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Acenaphthene	0.346	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Fluorene	0.187	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Phenanthrene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Anthracene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Fluoranthene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Pyrene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo(a)Anthracene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Chrysene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[b]Fluoranthene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[k]fluoranthene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[a]pyrene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Indeno[1,2,3-c,d] pyrene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Dibenzo[a,h]anthracene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Benzo[g,h,i]perylene	ND	0.0515	0.0155	ug/L	1	XMS4467	XXX19235	
Naphthalene	105	10.3	3.20	ug/L	100	XMS4470	XXX19235	
1-Methylnaphthalene	71.9	5.15	1.55	ug/L	100	XMS4470	XXX19235	
2-Methylnaphthalene	40.8	5.15	1.55	ug/L	100	XMS4470	XXX19235	
Terphenyl-d14 <sur>	74.4	50-135		%	1	XMS4467	XXX19235	

Batch Information

Analytical Batch: XMS4467	Prep Batch: XXX19235	Initial Prep Wt./Vol.: 970 mL
Analytical Method: 8270D SIMS	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 04/25/08 06:34	Prep Date/Time: 04/18/08 09:10	Container ID:1081553006-J
Dilution Factor: 1		Analyst: WAA
Analytical Batch: XMS4470	Prep Batch: XXX19235	Initial Prep Wt./Vol.: 970 mL
Analytical Method: 8270D SIMS	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 04/26/08 05:23	Prep Date/Time: 04/18/08 09:10	Container ID:1081553006-J
Dilution Factor: 100		Analyst: WAA



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW01-WG-11**
SGS Ref. #: 1081553007
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 17:15
Receipt Date/Time: 04/17/08 11:30

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	ND	1.00	0.310	ug/L	5	MMS5390	MXX20161	

Batch Information

Analytical Batch: MMS5390
Analytical Method: SW6020
Analysis Date/Time: 04/23/08 17:18
Dilution Factor: 5

Prep Batch: MXX20161
Prep Method: SW3010A
Prep Date/Time: 04/22/08 07:05

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID: 1081553007-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW01-WG-11
SGS Ref. #: 1081553007
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 17:15
Receipt Date/Time: 04/17/08 11:30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	13.6 J	100	10.0	ug/L	1	VFC8905	VXX18015	
-Bromofluorobenzene <sur>	109	50-150		%	1	VFC8905	VXX18015	

Batch Information

Analytical Batch: VFC8905
Analytical Method: SW8015B
Analysis Date/Time: 04/23/08 11:57
Dilution Factor: 1

Prep Batch: VXX18015
Prep Method: SW5030B
Prep Date/Time: 04/23/08 08:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1081553007-A
Analyst: HM



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW01-WG-11
SGS Ref. #: 1081553007
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 17:15
Receipt Date/Time: 04/17/08 11:30

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.427 J	0.428	0.0856	mg/L	1	XFC7885	XXX19238	
5a Androstane <sur>	85.9	50-150		%	1	XFC7885	XXX19238	

Batch Information

Analytical Batch: XFC7885
Analytical Method: SW8015B
Analysis Date/Time: 04/22/08 23:16
Dilution Factor: 1

Prep Batch: XXX19238
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:30

Initial Prep Wt./Vol.: 935 mL
Prep Extract Vol. 1 mL
Container ID:1081553007-I
Analyst: BME



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW01-WG-11

All Dates/Times are Alaska Local Time

SGS Ref. #: 1081553007

Collection Date/Time: 04/15/08 17:15

Project ID: 9121-003 Red Hill BFSF

Receipt Date/Time: 04/17/08 11:30

Matrix: Water (Surface, Eff., Ground)

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
Toluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
p-1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
o-1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
m-1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
p-1-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
m-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Styrene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Acetone	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
o-1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS9727	VXX18041	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
o-1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
Chloroform	ND	1.00	0.300	ug/L	1	VMS9727	VXX18041	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-Chloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS9727	VXX18041	
o-Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW01-WG-11
SGS Ref. #: 1081553007
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 17:15
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS9727	VXX18041	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromoform	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1-Chlorohexane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane-D4 <sur>	101	73-120		%	1	VMS9727	VXX18041	
Toluene-d8 <sur>	101	80-120		%	1	VMS9727	VXX18041	
4-Bromofluorobenzene <sur>	92.8	76-120		%	1	VMS9727	VXX18041	

Batch Information

Analytical Batch: VMS9727
Analytical Method: SW8260B
Analysis Date/Time: 04/29/08 18:29
Dilution Factor: 1

Prep Batch: VXX18041
Prep Method: SW5030B
Prep Date/Time: 04/29/08 09:00

Initial Prep Wt./Vol.: 20 mL
Prep Extract Vol.: 20 mL
Container ID: 1081553007-B
Analyst: DSH



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW01-WG-11

All Dates/Times are Alaska Local Time

SGS Ref. #: 1081553007

Collection Date/Time: 04/15/08 17:15

Project ID: 9121-003 Red Hill BFSF

Receipt Date/Time: 04/17/08 11:30

Matrix: Water (Surface, Eff., Ground)

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Acenaphthene	0.0406 J	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Fluorene	0.0375 J	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Phenanthrene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Anthracene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Fluoranthene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Pyrene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo(a)Anthracene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Chrysene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[b]Fluoranthene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[k]fluoranthene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[a]pyrene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Indeno[1,2,3-c,d] pyrene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Dibenzo[a,h]anthracene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[g,h,i]perylene	ND	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Naphthalene	0.216	0.106	0.0330	ug/L	1	XMS4467	XXX19235	
1-Methylnaphthalene	0.101	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
2-Methylnaphthalene	0.0789	0.0532	0.0160	ug/L	1	XMS4467	XXX19235	
Terphenyl-d14 <surr>	75.9	50-135		%	1	XMS4467	XXX19235	

Batch Information

Analytical Batch: XMS4467

Prep Batch: XXX19235

Initial Prep Wt./Vol.: 940 mL

Analytical Method: 8270D SIMS

Prep Method: SW3520C

Prep Extract Vol.: 1 mL

Analysis Date/Time: 04/25/08 07:06

Prep Date/Time: 04/18/08 09:10

Container ID:1081553007-J

Dilution Factor: 1

Analyst: WAA



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **TB01-WG-11**
SGS Ref. #: 1081553008
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 10:05
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
Toluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
4-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
cis-1,2-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
4-Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
n-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Styrene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Acetone	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS9727	VXX18041	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
Chloroform	ND	1.00	0.300	ug/L	1	VMS9727	VXX18041	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS9727	VXX18041	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **TB01-WG-11**
SGS Ref. #: 1081553008
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 10:05
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical	Prep	Qualifiers
						Batch	Batch	
Chloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS9727	VXX18041	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromoform	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Clorohexane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane-D4 <sur>	101	73-120		%	1	VMS9727	VXX18041	
Toluene-d8 <sur>	99.6	80-120		%	1	VMS9727	VXX18041	
4-Bromofluorobenzene <sur>	99.6	76-120		%	1	VMS9727	VXX18041	

Batch Information

Analytical Batch: VMS9727
Analytical Method: SW8260B
Analysis Date/Time: 04/29/08 14:32
Dilution Factor: 1

Prep Batch: VXX18041
Prep Method: SW5030B
Prep Date/Time: 04/29/08 09:00

Initial Prep Wt./Vol.: 20 mL
Prep Extract Vol.: 20 mL
Container ID:1081553008-B
Analyst: DSH



SGS Ref.# 823986 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch XXX19235
Method SW3520C
Date 04/18/2008

QC results affect the following production samples:

1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Polynuclear Aromatics GC/MS					
Acenaphthylene	ND	0.0500	0.0150	ug/L	04/24/08
Acenaphthene	ND	0.0500	0.0150	ug/L	04/24/08
Fluorene	ND	0.0500	0.0150	ug/L	04/24/08
Phenanthrene	ND	0.0500	0.0150	ug/L	04/24/08
Anthracene	ND	0.0500	0.0150	ug/L	04/24/08
Fluoranthene	ND	0.0500	0.0150	ug/L	04/24/08
Pyrene	ND	0.0500	0.0150	ug/L	04/24/08
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	04/24/08
Chrysene	ND	0.0500	0.0150	ug/L	04/24/08
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	04/24/08
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	04/24/08
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	04/24/08
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	04/24/08
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	04/24/08
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	04/24/08
Naphthalene	ND	0.100	0.0310	ug/L	04/24/08
1-Methylnaphthalene	0.0303 J	0.0500	0.0150	ug/L	04/24/08
2-Methylnaphthalene	0.0411 J	0.0500	0.0150	ug/L	04/24/08

Surrogates

Terphenyl-d14 <surr> 70.1 50-135 % 04/24/08

Batch XMS4467
Method 8270D SIMS
Instrument HP 5890 Series II MS2 SVOA



SGS Ref.# 824067 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch XXX19238
Method SW3520C
Date 04/18/2008

QC results affect the following production samples:

1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Semivolatile Organic Fuels Department

Diesel Range Organics	ND	0.400	0.0800	mg/L	04/22/08
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Surrogates

5a Androstane <surr>	86.6	60-120		%	04/22/08
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Batch XFC7885
Method SW8015B
Instrument HP 5890 Series II FID SV A F



SGS Ref.# 824334 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch MXX20161
Method SW3010A
Date 04/22/2008

QC results affect the following production samples:
1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Metals by ICP/MS

Lead	ND	1.00	0.310	ug/L	04/23/08
Batch	MMS5390				
Method	SW6020				
Instrument	Perkin Elmer Sciex ICP-MS P4				



SGS Ref.# 824560 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch VXX18015
Method SW5030B
Date 04/23/2008

QC results affect the following production samples:
1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Fuels Department

Gasoline Range Organics	ND	100	10.0	ug/L	04/23/08
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Surrogates

4-Bromofluorobenzene <surr>	110	50-150		%	04/23/08
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Batch VFC8905
Method SW8015B
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 825339 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch VXX18041
Method SW5030B
Date 04/29/2008

QC results affect the following production samples:

1081553001, 1081553004, 1081553005, 1081553006, 1081553007, 1081553008

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 825339 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch VXX18041
Method SW5030B
Date 04/29/2008

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy					
Benzene	ND	0.400	0.120	ug/L	04/29/08
Toluene	ND	1.00	0.310	ug/L	04/29/08
Ethylbenzene	ND	1.00	0.310	ug/L	04/29/08
n-Butylbenzene	ND	1.00	0.310	ug/L	04/29/08
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	04/29/08
1,2-Dichloroethane	ND	0.500	0.150	ug/L	04/29/08
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	04/29/08
4-Chlorotoluene	ND	1.00	0.310	ug/L	04/29/08
Chlorobenzene	ND	0.500	0.150	ug/L	04/29/08
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	04/29/08
cis-1,2-Dichloroethene	ND	1.00	0.310	ug/L	04/29/08
4-Isopropyltoluene	ND	1.00	0.310	ug/L	04/29/08
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	04/29/08
n-Propylbenzene	ND	1.00	0.310	ug/L	04/29/08
Styrene	ND	1.00	0.310	ug/L	04/29/08
Dibromomethane	ND	1.00	0.310	ug/L	04/29/08
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	04/29/08
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	04/29/08
Acetone	ND	10.0	3.10	ug/L	04/29/08
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	04/29/08
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	04/29/08
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	04/29/08
Tetrachloroethene	ND	1.00	0.310	ug/L	04/29/08
Dibromochloromethane	ND	0.500	0.150	ug/L	04/29/08
1,3-Dichloropropane	ND	0.400	0.120	ug/L	04/29/08
1,2-Dibromoethane	ND	1.00	0.310	ug/L	04/29/08
Carbon tetrachloride	ND	1.00	0.310	ug/L	04/29/08
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	04/29/08
Chloroform	ND	1.00	0.300	ug/L	04/29/08
Bromobenzene	ND	1.00	0.310	ug/L	04/29/08
Chloromethane	ND	1.00	0.310	ug/L	04/29/08
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	04/29/08
Bromomethane	ND	3.00	0.940	ug/L	04/29/08
Bromochloromethane	ND	1.00	0.310	ug/L	04/29/08
Vinyl chloride	ND	1.00	0.310	ug/L	04/29/08
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	04/29/08
Chloroethane	ND	1.00	0.310	ug/L	04/29/08
sec-Butylbenzene	ND	1.00	0.310	ug/L	04/29/08
Bromodichloromethane	ND	0.500	0.150	ug/L	04/29/08



SGS Ref.# 825339 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch VXX18041
Method SW5030B
Date 04/29/2008

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1,1-Dichloroethene	ND	1.00	0.310	ug/L	04/29/08
2-Butanone (MEK)	ND	10.0	3.10	ug/L	04/29/08
Methylene chloride	ND	5.00	1.00	ug/L	04/29/08
Trichlorofluoromethane	ND	1.00	0.310	ug/L	04/29/08
P & M -Xylene	ND	2.00	0.620	ug/L	04/29/08
Naphthalene	ND	2.00	0.620	ug/L	04/29/08
o-Xylene	ND	1.00	0.310	ug/L	04/29/08
Bromoform	ND	1.00	0.310	ug/L	04/29/08
1-Chlorohexane	ND	1.00	0.310	ug/L	04/29/08
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	04/29/08
tert-Butylbenzene	ND	1.00	0.310	ug/L	04/29/08
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	04/29/08
1,1-Dichloroethane	ND	1.00	0.310	ug/L	04/29/08
2-Chlorotoluene	ND	1.00	0.310	ug/L	04/29/08
Trichloroethene	ND	1.00	0.310	ug/L	04/29/08
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	04/29/08
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	04/29/08
2,2-Dichloropropane	ND	1.00	0.310	ug/L	04/29/08
Hexachlorobutadiene	ND	1.00	0.310	ug/L	04/29/08
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	04/29/08
1,2-Dichloropropane	ND	1.00	0.310	ug/L	04/29/08
1,1-Dichloropropene	ND	1.00	0.310	ug/L	04/29/08
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	04/29/08
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	04/29/08
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	04/29/08

Surrogates

1,2-Dichloroethane-D4 <surr>	107	73-120		%	04/29/08
Toluene-d8 <surr>	99.9	80-120		%	04/29/08
4-Bromofluorobenzene <surr>	99.6	76-120		%	04/29/08

Batch VMS9727
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 825521 Method Blank
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:34
Prep Batch VXX18047
Method SW5030B
Date 04/29/2008

QC results affect the following production samples:

1081553005, 1081553006

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Naphthalene	ND	2.00	0.620	ug/L	04/29/08
Surrogates					
1,2-Dichloroethane-D4 <surr>	99.6	73-120		%	04/29/08
Toluene-d8 <surr>	99.9	80-120		%	04/29/08
4-Bromofluorobenzene <surr>	103	76-120		%	04/29/08

Batch VMS9730
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 823987 Lab Control Sample

Printed Date/Time 05/13/2008 16:35

Client Name The Environmental Company, Inc. (TEC)
 Project Name/# 9121-003 Red Hill BFSF
 Matrix Water (Surface, Eff., Ground)

Prep Batch XXX19235
 Method SW3520C
 Date 04/18/2008

QC results affect the following production samples:
 1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Polynuclear Aromatics GC/MS</u>							
Acenaphthylene	LCS 0.388	78	(50-105)			0.5 ug/L	04/24/2008
Acenaphthene	LCS 0.400	80	(45-110)			0.5 ug/L	04/24/2008
Fluorene	LCS 0.413	83	(50-110)			0.5 ug/L	04/24/2008
Phenanthrene	LCS 0.432	87	(50-115)			0.5 ug/L	04/24/2008
Anthracene	LCS 0.401	80	(50-110)			0.5 ug/L	04/24/2008
Fluoranthene	LCS 0.473	95	(55-115)			0.5 ug/L	04/24/2008
Pyrene	LCS 0.458	92	(50-126)			0.5 ug/L	04/24/2008
Benzo(a)Anthracene	LCS 0.451	90	(55-110)			0.5 ug/L	04/24/2008
Chrysene	LCS 0.495	99	(55-110)			0.5 ug/L	04/24/2008
Benzo[b]Fluoranthene	LCS 0.463	93	(45-120)			0.5 ug/L	04/24/2008
Benzo[k]fluoranthene	LCS 0.473	95	(49-125)			0.5 ug/L	04/24/2008
Benzo[a]pyrene	LCS 0.430	86	(55-110)			0.5 ug/L	04/24/2008
Indeno[1,2,3-c,d] pyrene	LCS 0.448	90	(45-125)			0.5 ug/L	04/24/2008
Dibenzo[a,h]anthracene	LCS 0.453	91	(40-125)			0.5 ug/L	04/24/2008
Benzo[g,h,i]perylene	LCS 0.457	91	(40-125)			0.5 ug/L	04/24/2008
Naphthalene	LCS 0.415	83	(40-115)			0.5 ug/L	04/24/2008
1-Methylnaphthalene	LCS 0.436	87	(35-121)			0.5 ug/L	04/24/2008
2-Methylnaphthalene	LCS 0.438	88	(45-105)			0.5 ug/L	04/24/2008
Surrogates							
Terphenyl-d14 <sur>	LCS	70	(50-135)				04/24/2008



SGS Ref.# 823987 Lab Control Sample

Printed Date/Time 05/13/2008 16:35

Prep Batch XXX19235

Client Name The Environmental Company, Inc. (TEC)

Method SW3520C

Project Name/# 9121-003 Red Hill BFSF

Date 04/18/2008

Matrix Water (Surface, Eff., Ground)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Polynuclear Aromatics GC/MS

Batch XMS4467
Method 8270D SIMS
Instrument HP 5890 Series II MS2 SVOA



SGS Ref.# 824069 Lab Control Sample
824071 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
Prep Batch XXX19238
Method SW3520C
Date 04/18/2008

QC results affect the following production samples:

1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department							
Diesel Range Organics	LCS	4.16	(75-125)	2	(< 20)	5 mg/L	04/22/2008
	LCSD	4.07				81	5 mg/L
Surrogates							
5a Androstane <surr>	LCS	97	(60-120)	2		04/22/2008	
	LCSD	95			04/22/2008		

Batch XFC7885
Method SW8015B
Instrument HP 5890 Series II FID SV A F



**SGS Environmental Services
Alaska Division
Level II Laboratory Data Report**

Project: 9121-003 Red Hill BFSF
Client: The Environmental Company, Inc. (TEC)
SGS Work Order: 1081553

Released by:

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

Note:

Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

SGS Environmental Services Inc.

Case Narrative

Customer: THEENVC **The Environmental Company, Inc. (TEC)**
Project: 1081553 **9121-003 Red Hill BFSF**
NPDL WO:

Refer to the sample receipt form for information on sample condition.

- 1081553001 PS RHMW2254-WG-11**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
- 1081553004 PS RHMW03-WG-11**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
- 1081553005 PS RHMW02-WG-11**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
8015B - An unknown hydrocarbon is present.
- 1081553006 PS RHMWA01-WG-11**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
8015B - An unknown hydrocarbon is present.
- 1081553007 PS RHMW01-WG-11**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
- 1081553002 BMS RHMW2254-WG-11 MS**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
8270D SIM - MS/MSD recovery for benzo[a]pyrene and benzo(a)anthracene does not meet QC criteria (biased high).
- 823990 MS 1081553001MS**
8270D SIM - MS/MSD recovery for benzo[a]pyrene and benzo(a)anthracene does not meet QC criteria (biased high).
- 1081553003 BMSD RHMW2254-WG-11 MSD**
6020 - ICSA did not meet QC criteria for lead due to contamination of the ICS stock standard. Lead was not detected in the associated samples.
8260B - The MS/MSD does not meet laboratory RPD criteria for methyl-t-butyl ether. This analyte was not detected above the PQL in the associated samples.
- 823986 MB XXX/19235]**
8270D SIM - MB result for 1-methylnaphthalene and 2-methylnaphthalene is greater than 1/2 PQL yet lower than the PQL.
- 825340 LCS VXX/18041]**
8260B - Laboratory control sample (LCS) result for methyl-t-butyl ether does not meet QC goals (biased high). This analyte was not detected above the PQL in the associated samples.
- 825341 LCSD VXX/18041**
8260B - Laboratory control sample duplicate (LCSD) result for 1,1-dichloroethane and bromodichloromethane does not meet QC goals (biased high). These analytes were not detected above the PQL in the associated samples.
8260B - LCS/LCSD does not meet laboratory RPD criteria for hexachlorobutadiene and methyl-t-butyl ether. These analytes were not detected above the PQL in the associated samples.
- 825343 CCV VMS/9727]**
8260B - Continuing calibration verification (CCV) result for 2,2-dichloropropane and methyl-t-butyl ether does not meet QC goals (biased high). These analytes were not detected above the PQL in the associated samples.



Laboratory Analytical Report

Client: **The Environmental Company, Inc.**
1001 Bishop Street Ste 1400
ASB Tower
Honolulu, HI 96813

Attn: **Jeff Hart**
T: (808)528-1445 F:(808)528-0768
jshart@tecinc.com

Project: **9121-003 Red Hill BFSF**

Workorder No.: **1081553**

Certification:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, other than the conditions noted on the sample data sheet(s) and/or the case narrative. This certification applies only to the tested parameters and the specific sample(s) received at the laboratory.

If you have any questions regarding this report, or if we can be of further assistance, please contact your SGS Project Manager.

Mark Abe
mark.abe@sgs.com
Project Manager

Enclosed are the analytical results associated with this workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and 001992 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any assistance, please contact your SGS Project Manager at 907-562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

MDL	Method Detection Limit
PQL	Practical Quantitation Limit (reporting limit).
CL	Control Limit
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
D	The analyte concentration is the result of dilution.
GT	Greater Than
LT	Less Than
Q	QC parameter out of acceptance range
M	A matrix effect was present.
E	The analyte result is above the calibrated range.
R	Rejected
DF	Analytical Dilution Factor
JL	The analyte was positively identified, but the quantitation is a low estimation.
<Surr>	Surrogate QC spiked standard
<Surr/IS>	Surrogate / Internal Standard QC spiked standard
QC	Quality Control
QA	Quality Assurance
MB	Method Blank
LCS (D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
BMS(D)	Site Specific Matrix Spike
RPD	Relative Percent Difference
ICV	Initial Calibration Verification
CCV	Continuous Calibration Verification
MSA	Method of Standard Addition

Note: Soil samples are reported on a dry weight basis unless otherwise specified



SAMPLE SUMMARY

Print Date: 5/13/2008

Client Name: The Environmental Company, Inc. (TEC)

Project Name: 9121-003 Red Hill BFSF

Workorder No.: 1081553

Analytical Methods

Method Description

Analytical Method

270 PAH SIM Semi-Vol GC/MS Liq/Liq ext.

8270D SIMS

FCEE 3.1 8260 (W)

SW8260B

Dissolved Metals by ICP-MS

SW6020

RO by 8015B (W)

SW8015B

RO (W)

SW8015B

Sample ID Cross Reference

Lab Sample ID

Client Sample ID

081553001

RHMW2254-WG-11

081553002

RHMW2254-WG-11 MS

1081553003

RHMW2254-WG-11 MSD

081553004

RHMW03-WG-11

1081553005

RHMW02-WG-11

1081553006

RHMWA01-WG-11

081553007

RHMW01-WG-11

1081553008

TB01-WG-11



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW2254-WG-11**
SGS Ref. #: 1081553001
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 12:30
Receipt Date/Time: 04/17/08 11:30

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	ND	1.00	0.310	ug/L	5	MMS5390	MXX20161	

Batch Information

Analytical Batch: MMS5390
Analytical Method: SW6020
Analysis Date/Time: 04/23/08 14:25
Dilution Factor: 5

Prep Batch: MXX20161
Prep Method: SW3010A
Prep Date/Time: 04/22/08 07:05

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1081553001-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW2254-WG-11**
SGS Ref. #: 1081553001
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 12:30
Receipt Date/Time: 04/17/08 11:30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8905	VXX18015	
Bromofluorobenzene <sur>	110	50-150		%	1	VFC8905	VXX18015	

Batch Information

Analytical Batch: VFC8905	Prep Batch: VXX18015	Initial Prep Wt./Vol.: 5 mL
Analytical Method: SW8015B	Prep Method: SW5030B	Prep Extract Vol.: 5 mL
Analysis Date/Time: 04/23/08 10:06	Prep Date/Time: 04/23/08 08:00	Container ID:1081553001-A
Dilution Factor: 1		Analyst: HM



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW2254-WG-11**
SGS Ref. #: 1081553001
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 12:30
Receipt Date/Time: 04/17/08 11:30

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	ND	0.430	0.0860	mg/L	1	XFC7885	XXX19238	
5a Androstane <sur>	88.4	50-150		%	1	XFC7885	XXX19238	

Batch Information

Analytical Batch: XFC7885
Analytical Method: SW8015B
Analysis Date/Time: 04/22/08 21:54
Dilution Factor: 1

Prep Batch: XXX19238
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:30

Initial Prep Wt./Vol.: 930 mL
Prep Extract Vol.: 1 mL
Container ID:1081553001-I
Analyst: BME



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW2254-WG-11

All Dates/Times are Alaska Local Time

GS Ref. #: 1081553001

Collection Date/Time: 04/15/08 12:30

Project ID: 9121-003 Red Hill BFSF

Receipt Date/Time: 04/17/08 11:30

Matrix: Water (Surface, Eff., Ground)

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
Toluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
o-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
m-Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
n-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
styrene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Acetone	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS9727	VXX18041	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromochloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
Chloroform	ND	1.00	0.300	ug/L	1	VMS9727	VXX18041	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS9727	VXX18041	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW2254-WG-11
SGS Ref. #: 1081553001
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 12:30
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical	Prep	Qualifiers
						Batch	Batch	
Chloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS9727	VXX18041	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromoform	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1-Chlorohexane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane-D4 <sur>	102	73-120		%	1	VMS9727	VXX18041	
Toluene-d8 <sur>	103	80-120		%	1	VMS9727	VXX18041	
4-Bromofluorobenzene <sur>	100	76-120		%	1	VMS9727	VXX18041	

Batch Information

Analytical Batch: VMS9727
Analytical Method: SW8260B
Analysis Date/Time: 04/29/08 17:22
Dilution Factor: 1

Prep Batch: VXX18041
Prep Method: SW5030B
Prep Date/Time: 04/29/08 09:00

Initial Prep Wt./Vol.: 20 mL
Prep Extract Vol.: 20 mL
Container ID: 1081553001-B
Analyst: DSH



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW2254-WG-11
SGS Ref. #: 1081553001
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 12:30
Receipt Date/Time: 04/17/08 11:30

Polynuclear Aromatics GC/MS

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Acenaphthylene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Acenaphthene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Fluorene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Phenanthrene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Anthracene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Fluoranthene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Pyrene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo(a)Anthracene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Chrysene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[b]Fluoranthene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[k]fluoranthene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[a]pyrene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Indeno[1,2,3-c,d] pyrene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[a,h]anthracene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Benzo[g,h,i]perylene	ND	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Naphthalene	ND	0.107	0.0332	ug/L	1	XMS4467	XXX19235	
1-Methylnaphthalene	0.0435 J	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
2-Methylnaphthalene	0.0561	0.0535	0.0160	ug/L	1	XMS4467	XXX19235	
Triphenyl-d14 <sur>	78.1	50-135		%	1	XMS4467	XXX19235	

Batch Information

Analytical Batch: XMS4467
Analytical Method: 8270D SIMS
Analysis Date/Time: 04/25/08 03:50
Dilution Factor: 1

Prep Batch: XXX19235
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:10

Initial Prep Wt./Vol.: 935 mL
Prep Extract Vol.: 1 mL
Container ID:1081553001-J
Analyst: WAA



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW03-WG-11
SGS Ref. #: 1081553004
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:15
Receipt Date/Time: 04/17/08 11:30

Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Lead	ND	1.00	0.310	ug/L	5	MMS5390	MXX20161	

Batch Information

Analytical Batch: MMS5390
Analytical Method: SW6020
Analysis Date/Time: 04/23/08 16:58
Dilution Factor: 5

Prep Batch: MXX20161
Prep Method: SW3010A
Prep Date/Time: 04/22/08 07:05

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1081553004-G
Analyst: NRB



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW03-WG-11

SGS Ref. #: 1081553004

Project ID: 9121-003 Red Hill BFSF

Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time

Collection Date/Time: 04/15/08 14:15

Receipt Date/Time: 04/17/08 11:30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8905	VXX18015	
-Bromofluorobenzene <sur>	110	50-150		%	1	VFC8905	VXX18015	

Batch Information

Analytical Batch: VFC8905

Analytical Method: SW8015B

Analysis Date/Time: 04/23/08 11:01

Dilution Factor: 1

Prep Batch: VXX18015

Prep Method: SW5030B

Prep Date/Time: 04/23/08 08:00

Initial Prep Wt./Vol.: 5 mL

Prep Extract Vol.: 5 mL

Container ID:1081553004-A

Analyst: HM



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW03-WG-11**
SGS Ref. #: 1081553004
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:15
Receipt Date/Time: 04/17/08 11:30

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.190 J	0.415	0.0829	mg/L	1	XFC7885	XXX19238	
5a Androstane <sur>	90.8	50-150		%	1	XFC7885	XXX19238	

Batch Information

Analytical Batch: XFC7885
Analytical Method: SW8015B
Analysis Date/Time: 04/22/08 22:25
Dilution Factor: 1

Prep Batch: XXX19238
Prep Method: SW3520C
Prep Date/Time: 04/18/08 09:30

Initial Prep Wt./Vol.: 965 mL
Prep Extract Vol.: 1 mL
Container ID:1081553004-I
Analyst: BME



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: RHMW03-WG-11

All Dates/Times are Alaska Local Time

SGS Ref. #: 1081553004

Collection Date/Time: 04/15/08 14:15

Project ID: 9121-003 Red Hill BFSF

Receipt Date/Time: 04/17/08 11:30

Matrix: Water (Surface, Eff., Ground)

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
Toluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
p-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
n-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Styrene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Acetone	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS9727	VXX18041	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS9727	VXX18041	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
Chloroform	ND	1.00	0.300	ug/L	1	VMS9727	VXX18041	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS9727	VXX18041	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	



The Environmental Company, Inc. (TEC)

Print Date: 5/13/2008

Client Sample ID: **RHMW03-WG-11**
SGS Ref. #: 1081553004
Project ID: 9121-003 Red Hill BFSF
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 04/15/08 14:15
Receipt Date/Time: 04/17/08 11:30

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS9727	VXX18041	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS9727	VXX18041	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS9727	VXX18041	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Bromoform	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1-Chlorohexane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS9727	VXX18041	
1,2-Dichloroethane-D4 <sur>	103	73-120		%	1	VMS9727	VXX18041	
Toluene-d8 <sur>	102	80-120		%	1	VMS9727	VXX18041	
4-Bromofluorobenzene <sur>	103	76-120		%	1	VMS9727	VXX18041	

Batch Information

Analytical Batch: VMS9727
Analytical Method: SW8280B
Analysis Date/Time: 04/29/08 17:56
Dilution Factor: 1

Prep Batch: VXX18041
Prep Method: SW5030B
Prep Date/Time: 04/29/08 09:00

Initial Prep Wt./Vol.: 20 mL
Prep Extract Vol.: 20 mL
Container ID: 1081553004-B
Analyst: DSH



SGS Ref.# 824335 Lab Control Sample

Printed Date/Time 05/13/2008 16:35

Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Prep Batch MXX20161
Method SW3010A
Date 04/22/2008

QC results affect the following production samples:
1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Metals by ICP/MS

Lead	LCS	1040	104	(80-120)		1000 ug/L	04/23/2008
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Batch MMS5390
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P4



SGS Ref.# 824561 Lab Control Sample
824562 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18015
Method SW5030B
Date 04/23/2008

QC results affect the following production samples:
1081553001, 1081553004, 1081553005, 1081553006, 1081553007

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Fuels Department</u>							
Gasoline Range Organics	LCS	194	(79-108)	3	(< 20)	200 ug/L	04/23/2008
	LCSD	189				94	200 ug/L
Surrogates							
4-Bromofluorobenzene <surr>	LCS	113	(50-150)	2		04/23/2008	
	LCSD	110			110	04/23/2008	

Batch VFC8905
Method SW8015B
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 825340 Lab Control Sample
825341 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18041
Method SW5030B
Date 04/29/2008

QC results affect the following production samples:
1081553001, 1081553004, 1081553005, 1081553006, 1081553007, 1081553008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 825340 Lab Control Sample
 825341 Lab Control Sample Duplicate
 Client Name The Environmental Company, Inc. (TEC)
 Project Name/# 9121-003 Red Hill BFSF
 Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
 Prep Batch VXX18041
 Method SW5030B
 Date 04/29/2008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Benzene	LCS	32.1	107	(80-120)		30 ug/L	04/29/2008
	LCSD	33.8	113		5	(< 20)	30 ug/L 04/29/2008
Toluene	LCS	30.4	101	(77-120)		30 ug/L	04/29/2008
	LCSD	33.6	112		10	(< 20)	30 ug/L 04/29/2008
Ethylbenzene	LCS	31.7	106	(80-120)		30 ug/L	04/29/2008
	LCSD	35.5	118		11	(< 20)	30 ug/L 04/29/2008
n-Butylbenzene	LCS	27.8	93	(80-124)		30 ug/L	04/29/2008
	LCSD	32.8	109		17	(< 20)	30 ug/L 04/29/2008
1,4-Dichlorobenzene	LCS	30.0	100	(80-120)		30 ug/L	04/29/2008
	LCSD	33.6	112		11	(< 20)	30 ug/L 04/29/2008
1,2-Dichloroethane	LCS	30.9	103	(80-129)		30 ug/L	04/29/2008
	LCSD	31.6	105		2	(< 20)	30 ug/L 04/29/2008
1,3,5-Trimethylbenzene	LCS	30.6	102	(80-128)		30 ug/L	04/29/2008
	LCSD	33.9	113		10	(< 20)	30 ug/L 04/29/2008
4-Chlorotoluene	LCS	29.5	98	(79-128)		30 ug/L	04/29/2008
	LCSD	32.6	109		10	(< 20)	30 ug/L 04/29/2008
Chlorobenzene	LCS	32.0	107	(80-120)		30 ug/L	04/29/2008
	LCSD	34.9	116		9	(< 20)	30 ug/L 04/29/2008
4-Methyl-2-pentanone (MIBK)	LCS	96.7	107	(69-134)		90 ug/L	04/29/2008
	LCSD	96.5	107		0	(< 20)	90 ug/L 04/29/2008
cis-1,2-Dichloroethene	LCS	29.3	98	(80-125)		30 ug/L	04/29/2008
	LCSD	31.3	104		6	(< 20)	30 ug/L 04/29/2008
4-Isopropyltoluene	LCS	28.4	95	(80-125)		30 ug/L	04/29/2008
	LCSD	33.0	110		15	(< 20)	30 ug/L 04/29/2008
cis-1,3-Dichloropropene	LCS	30.4	101	(80-120)		30 ug/L	04/29/2008
	LCSD	32.0	107		5	(< 20)	30 ug/L 04/29/2008
n-Propylbenzene	LCS	29.5	98	(80-129)		30 ug/L	04/29/2008
	LCSD	33.4	111		12	(< 20)	30 ug/L 04/29/2008



SGS Ref.# 825340 Lab Control Sample
 825341 Lab Control Sample Duplicate
 Client Name The Environmental Company, Inc. (TEC)
 Project Name/# 9121-003 Red Hill BFSF
 Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
 Prep Batch VXX18041
 Method SW5030B
 Date 04/29/2008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Styrene	LCS	31.4	105	(80-120)			30 ug/L	04/29/2008
	LCSD	34.2	114		9	(< 20)	30 ug/L	04/29/2008
Dibromomethane	LCS	30.6	102	(80-120)			30 ug/L	04/29/2008
	LCSD	31.0	103		1	(< 20)	30 ug/L	04/29/2008
trans-1,3-Dichloropropene	LCS	34.2	114	(80-124)			30 ug/L	04/29/2008
	LCSD	36.4	121		6	(< 20)	30 ug/L	04/29/2008
1,2,4-Trichlorobenzene	LCS	26.2	87	(80-120)			30 ug/L	04/29/2008
	LCSD	30.4	101		15	(< 20)	30 ug/L	04/29/2008
Acetone	LCS	100	111	(50-135)			90 ug/L	04/29/2008
	LCSD	106	118		6	(< 20)	90 ug/L	04/29/2008
1,1,2,2-Tetrachloroethane	LCS	29.2	97	(76-123)			30 ug/L	04/29/2008
	LCSD	31.4	105		7	(< 20)	30 ug/L	04/29/2008
1,2-Dibromo-3-chloropropane	LCS	30.9	103	(73-130)			30 ug/L	04/29/2008
	LCSD	30.5	102		1	(< 20)	30 ug/L	04/29/2008
Methyl-t-butyl ether	LCS	62.9	140 *	(80-120)			45 ug/L	04/29/2008
	LCSD	49.0	109		25 *	(< 20)	45 ug/L	04/29/2008
Tetrachloroethene	LCS	29.3	98	(79-122)			30 ug/L	04/29/2008
	LCSD	32.6	109		11	(< 20)	30 ug/L	04/29/2008
Dibromochloromethane	LCS	33.0	110	(80-120)			30 ug/L	04/29/2008
	LCSD	34.7	116		5	(< 20)	30 ug/L	04/29/2008
1,3-Dichloropropane	LCS	33.4	111	(80-121)			30 ug/L	04/29/2008
	LCSD	35.4	118		6	(< 20)	30 ug/L	04/29/2008
1,2-Dibromoethane	LCS	32.5	108	(80-120)			30 ug/L	04/29/2008
	LCSD	32.8	109		1	(< 20)	30 ug/L	04/29/2008
Carbon tetrachloride	LCS	32.8	109	(80-126)			30 ug/L	04/29/2008
	LCSD	35.1	117		7	(< 20)	30 ug/L	04/29/2008
1,1,1,2-Tetrachloroethane	LCS	31.5	105	(80-120)			30 ug/L	04/29/2008



SGS Ref.# 825340 Lab Control Sample
 825341 Lab Control Sample Duplicate
 Client Name The Environmental Company, Inc. (TEC)
 Project Name/# 9121-003 Red Hill BFSF
 Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
 Prep Batch VXX18041
 Method SW5030B
 Date 04/29/2008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy							
	LCSD 34.6	115		10	(< 20)	30 ug/L	04/29/2008
Chloroform	LCS 30.3	101	(80-124)			30 ug/L	04/29/2008
	LCSD 32.5	108		7	(< 20)	30 ug/L	04/29/2008
Bromobenzene	LCS 28.5	95	(80-120)			30 ug/L	04/29/2008
	LCSD 31.7	106		11	(< 20)	30 ug/L	04/29/2008
Chloromethane	LCS 28.5	95	(67-125)			30 ug/L	04/29/2008
	LCSD 33.5	112		16	(< 20)	30 ug/L	04/29/2008
1,2,3-Trichloropropane	LCS 28.8	96	(80-120)			30 ug/L	04/29/2008
	LCSD 30.2	101		5	(< 20)	30 ug/L	04/29/2008
Bromomethane	LCS 30.0	100	(30-140)			30 ug/L	04/29/2008
	LCSD 31.4	105		5	(< 20)	30 ug/L	04/29/2008
Bromochloromethane	LCS 29.6	99	(77-129)			30 ug/L	04/29/2008
	LCSD 30.7	102		4	(< 20)	30 ug/L	04/29/2008
Vinyl chloride	LCS 32.3	108	(72-145)			30 ug/L	04/29/2008
	LCSD 34.7	116		7	(< 20)	30 ug/L	04/29/2008
Dichlorodifluoromethane	LCS 31.1	104	(62-153)			30 ug/L	04/29/2008
	LCSD 32.5	108		4	(< 20)	30 ug/L	04/29/2008
Chloroethane	LCS 27.8	93	(67-133)			30 ug/L	04/29/2008
	LCSD 28.7	96		3	(< 20)	30 ug/L	04/29/2008
sec-Butylbenzene	LCS 29.0	97	(80-120)			30 ug/L	04/29/2008
	LCSD 33.1	110		13	(< 20)	30 ug/L	04/29/2008
Bromodichloromethane	LCS 35.0	117	(80-120)			30 ug/L	04/29/2008
	LCSD 36.8	123 *		5	(< 20)	30 ug/L	04/29/2008
1,1-Dichloroethene	LCS 31.0	103	(76-130)			30 ug/L	04/29/2008
	LCSD 32.6	109		5	(< 20)	30 ug/L	04/29/2008
2-Butanone (MEK)	LCS 86.1	96	(66-136)			90 ug/L	04/29/2008
	LCSD 95.0	106		10	(< 20)	90 ug/L	04/29/2008



SGS Ref.# 825340 Lab Control Sample
825341 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18041
Method SW5030B
Date 04/29/2008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy							
Methylene chloride	LCS 30.7	102	(63-131)			30 ug/L	04/29/2008
	LCSD 30.9	103		1	(< 20)	30 ug/L	04/29/2008
Trichlorofluoromethane	LCS 31.1	104	(68-145)			30 ug/L	04/29/2008
	LCSD 33.2	111		7	(< 20)	30 ug/L	04/29/2008
P & M -Xylene	LCS 64.0	107	(80-120)			60 ug/L	04/29/2008
	LCSD 71.7	120		11	(< 20)	60 ug/L	04/29/2008
Naphthalene	LCS 27.6	92	(75-120)			30 ug/L	04/29/2008
	LCSD 30.6	102		10	(< 20)	30 ug/L	04/29/2008
p-Xylene	LCS 30.8	103	(80-120)			30 ug/L	04/29/2008
	LCSD 34.6	115		12	(< 20)	30 ug/L	04/29/2008
Bromoform	LCS 32.4	108	(80-120)			30 ug/L	04/29/2008
	LCSD 34.5	115		6	(< 20)	30 ug/L	04/29/2008
1-Chlorohexane	LCS 47.0	104	(70-125)			45 ug/L	04/29/2008
	LCSD 53.0	118		12	(< 20)	45 ug/L	04/29/2008
1,2,4-Trimethylbenzene	LCS 29.5	98	(80-125)			30 ug/L	04/29/2008
	LCSD 32.7	109		10	(< 20)	30 ug/L	04/29/2008
tert-Butylbenzene	LCS 28.6	95	(80-122)			30 ug/L	04/29/2008
	LCSD 32.5	108		13	(< 20)	30 ug/L	04/29/2008
1,1,1-Trichloroethane	LCS 31.5	105	(80-122)			30 ug/L	04/29/2008
	LCSD 33.5	112		6	(< 20)	30 ug/L	04/29/2008
1,1-Dichloroethane	LCS 35.6	119	(80-120)			30 ug/L	04/29/2008
	LCSD 36.4	121 *		2	(< 20)	30 ug/L	04/29/2008
2-Chlorotoluene	LCS 29.2	97	(80-125)			30 ug/L	04/29/2008
	LCSD 32.2	107		10	(< 20)	30 ug/L	04/29/2008
Trichloroethene	LCS 30.5	102	(80-125)			30 ug/L	04/29/2008
	LCSD 33.0	110		8	(< 20)	30 ug/L	04/29/2008
trans-1,2-Dichloroethene	LCS 33.2	111	(79-132)			30 ug/L	04/29/2008
	LCSD 33.1	110		0	(< 20)	30 ug/L	04/29/2008



SGS Ref.# 825340 Lab Control Sample
 825341 Lab Control Sample Duplicate
 Client Name The Environmental Company, Inc. (TEC)
 Project Name/# 9121-003 Red Hill BFSF
 Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
 Prep Batch VXX18041
 Method SW5030B
 Date 04/29/2008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1,2-Dichlorobenzene	LCS	28.3	94	(80-120)			30 ug/L	04/29/2008
	LCSD	30.9	103		9	(< 20)	30 ug/L	04/29/2008
2,2-Dichloropropane	LCS	37.5	125	(80-132)			30 ug/L	04/29/2008
	LCSD	34.9	116		7	(< 20)	30 ug/L	04/29/2008
Hexachlorobutadiene	LCS	27.3	91	(77-125)			30 ug/L	04/29/2008
	LCSD	34.1	114		22 *	(< 20)	30 ug/L	04/29/2008
Isopropylbenzene (Cumene)	LCS	31.0	103	(80-121)			30 ug/L	04/29/2008
	LCSD	34.6	115		11	(< 20)	30 ug/L	04/29/2008
1,2-Dichloropropane	LCS	31.5	105	(80-121)			30 ug/L	04/29/2008
	LCSD	32.9	110		4	(< 20)	30 ug/L	04/29/2008
1,1-Dichloropropene	LCS	28.6	95	(80-122)			30 ug/L	04/29/2008
	LCSD	31.2	104		9	(< 20)	30 ug/L	04/29/2008
1,1,2-Trichloroethane	LCS	30.4	101	(77-120)			30 ug/L	04/29/2008
	LCSD	33.6	112		10	(< 20)	30 ug/L	04/29/2008
1,3-Dichlorobenzene	LCS	27.9	93	(80-120)			30 ug/L	04/29/2008
	LCSD	30.6	102		9	(< 20)	30 ug/L	04/29/2008
1,2,3-Trichlorobenzene	LCS	26.3	88	(77-120)			30 ug/L	04/29/2008
	LCSD	31.0	103		16	(< 20)	30 ug/L	04/29/2008
Surrogates								
1,2-Dichloroethane-D4 <surrogate>	LCS		100	(73-120)				04/29/2008
	LCSD		98		2			04/29/2008
Toluene-d8 <surrogate>	LCS		101	(80-120)				04/29/2008
	LCSD		104		3			04/29/2008
4-Bromofluorobenzene <surrogate>	LCS		97	(76-120)				04/29/2008
	LCSD		98		1			04/29/2008



SGS Ref.# 825340 Lab Control Sample
825341 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18041
Method SW5030B
Date 04/29/2008

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Batch VMS9727
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 825522 Lab Control Sample
825523 Lab Control Sample Duplicate
Client Name The Environmental Company, Inc. (TEC)
Project Name/# 9121-003 Red Hill BFSF
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18047
Method SW5030B
Date 04/29/2008

QC results affect the following production samples:
1081553005, 1081553006

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Naphthalene	LCS 27.6	92	(75-120)			30 ug/L	04/29/2008
	LCSD 28.7	96		4	(< 20)	30 ug/L	04/29/2008
Surrogates							
1,2-Dichloroethane-D4 <surr>	LCS	87	(73-120)				04/29/2008
	LCSD	86		1			04/29/2008
Toluene-d8 <surr>	LCS	100	(80-120)				04/29/2008
	LCSD	101		1			04/29/2008
4-Bromofluorobenzene <surr>	LCS	99	(76-120)				04/29/2008
	LCSD	97		2			04/29/2008

Batch VMS9730
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 825527 Matrix Spike
825528 Matrix Spike Duplicate

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18047
Method Volatiles Extraction AFCEE 3.1
Date 04/29/2008

Original 825526
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:
1081553005, 1081553006

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
Naphthalene	MS	ND	29	97	(75-120)			30.0	ug/L 04/29/2008
	MSD		28.8	96		1	(<20)	30.0	ug/L 04/29/2008
Surrogates									
1,2-Dichloroethane-D4 <surr>	MS		30.8	103	(73-120)				04/29/2008
	MSD		26.6	89		15			04/29/2008
Toluene-d8 <surr>	MS		29.8	99	(80-120)				04/29/2008
	MSD		30.3	101		2			04/29/2008
4-Bromofluorobenzene <surr>	MS		29.5	98	(76-120)				04/29/2008
	MSD		29.0	97		2			04/29/2008

Batch VMS9730
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 1081553002 Billable Matrix Spike
1081553003 Billable Matrix Spike Dup.

Printed Date/Time 05/13/2008 16:35
Prep Batch MXX20161
Method 3010 H2O Digest for Metals ICI
Date 04/22/2008

Original 1081553001
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Dissolved Metals by ICP/MS									
Lead	BMS ND		1030	103	(80-120)			1000	ug/L 04/23/2008
	BMSD		1060	106		3	(<15)	1000	ug/L 04/23/2008
Batch	MMS5390								
Method	SW6020								
Instrument	Perkin Elmer Sciex ICP-MS P4								

Volatile Fuels Department

Gasoline Range Organics	BMS ND		408	91	(79-108)			450	ug/L 04/23/2008
	BMSD		407	91		0	(<20)	450	ug/L 04/23/2008
Surrogates									
4-Bromofluorobenzene <surr>	BMS		56.8	114	(50-150)				04/23/2008
	BMSD		56.5	113		1			04/23/2008
Batch	VFC8905								
Method	SW8015B								
Instrument	HP 5890 Series II PID+HECD VBA								

Semivolatile Organic Fuels Department

Diesel Range Organics	BMS ND		4.43	85	(75-125)			5.21	mg/L 04/22/2008
	BMSD		4.33	84		2	(<30)	5.15	mg/L 04/22/2008
Surrogates									
5a Androstane <surr>	BMS		.0982	94	(50-150)				04/22/2008
	BMSD		0.0959	93		2			04/22/2008
Batch	XFC7885								
Method	SW8015B								
Instrument	HP 5890 Series II FID SV A F								

Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 1081553002 Billable Matrix Spike
1081553003 Billable Matrix Spike Dup.

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18041
Method Volatiles Extraction AFCEE 3.1
Date 04/29/2008

Original 1081553001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Benzene	BMS	ND	27.5	92	(80-120)			30.0	ug/L 04/29/2008
	BMSD		28.9	97		5	(< 20)	30.0	ug/L 04/29/2008
Toluene	BMS	ND	27.8	93	(77-120)			30.0	ug/L 04/29/2008
	BMSD		27.4	91		1	(< 20)	30.0	ug/L 04/29/2008
Ethylbenzene	BMS	ND	30	100	(80-120)			30.0	ug/L 04/29/2008
	BMSD		30.1	100		0	(< 20)	30.0	ug/L 04/29/2008
n-Butylbenzene	BMS	ND	28	93	(80-124)			30.0	ug/L 04/29/2008
	BMSD		28.6	95		2	(< 20)	30.0	ug/L 04/29/2008
1,4-Dichlorobenzene	BMS	ND	27.7	92	(80-120)			30.0	ug/L 04/29/2008
	BMSD		28.8	96		4	(< 20)	30.0	ug/L 04/29/2008
1,2-Dichloroethane	BMS	ND	26.7	89	(80-129)			30.0	ug/L 04/29/2008
	BMSD		28.5	95		6	(< 20)	30.0	ug/L 04/29/2008
1,3,5-Trimethylbenzene	BMS	ND	28.6	95	(80-128)			30.0	ug/L 04/29/2008
	BMSD		29.3	98		3	(< 20)	30.0	ug/L 04/29/2008
4-Chlorotoluene	BMS	ND	27.8	93	(79-128)			30.0	ug/L 04/29/2008
	BMSD		28.6	95		3	(< 20)	30.0	ug/L 04/29/2008
Chlorobenzene	BMS	ND	29.3	98	(80-120)			30.0	ug/L 04/29/2008
	BMSD		29.3	98		0	(< 20)	30.0	ug/L 04/29/2008
4-Methyl-2-pentanone (MIBK)	BMS	ND	90.7	101	(69-134)			90.0	ug/L 04/29/2008
	BMSD		92.9	103		2	(< 20)	90.0	ug/L 04/29/2008
cis-1,2-Dichloroethene	BMS	ND	25.5	85	(80-125)			30.0	ug/L 04/29/2008
	BMSD		26.5	88		4	(< 20)	30.0	ug/L 04/29/2008
4-Isopropyltoluene	BMS	ND	27.7	92	(80-125)			30.0	ug/L 04/29/2008
	BMSD		28.7	96		4	(< 20)	30.0	ug/L 04/29/2008
cis-1,3-Dichloropropene	BMS	ND	27.3	91	(80-120)			30.0	ug/L 04/29/2008
	BMSD		29.0	97		6	(< 20)	30.0	ug/L 04/29/2008
n-Propylbenzene	BMS	ND	28.4	95	(80-129)			30.0	ug/L 04/29/2008
	BMSD		29.0	97		2	(< 20)	30.0	ug/L 04/29/2008
Styrene	BMS	ND	28.7	96	(80-120)			30.0	ug/L 04/29/2008
	BMSD		28.1	94		2	(< 20)	30.0	ug/L 04/29/2008
Dibromomethane	BMS	ND	26.4	88	(80-120)			30.0	ug/L 04/29/2008
	BMSD		27.8	93		5	(< 20)	30.0	ug/L 04/29/2008
trans-1,3-Dichloropropene	BMS	ND	31.7	106	(80-124)			30.0	ug/L 04/29/2008
	BMSD		32.6	109		3	(< 20)	30.0	ug/L 04/29/2008
1,2,4-Trichlorobenzene	BMS	ND	26	87	(80-120)			30.0	ug/L 04/29/2008
	BMSD		26.6	89		2	(< 20)	30.0	ug/L 04/29/2008
Acetone	BMS	ND	93.6	104	(50-135)			90.0	ug/L 04/29/2008
	BMSD		96.8	108		3	(< 20)	90.0	ug/L 04/29/2008
1,1,2,2-Tetrachloroethane	BMS	ND	27	90	(76-123)			30.0	ug/L 04/29/2008
	BMSD		28.3	94		5	(< 20)	30.0	ug/L 04/29/2008



SGS Ref.# 1081553002 Billable Matrix Spike
 1081553003 Billable Matrix Spike Dup.

Printed Date/Time 05/13/2008 16:35
 Prep Batch VXX18041
 Method Volatiles Extraction AFCEE 3.1
 Date 04/29/2008

Original 1081553001
 Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
1,2-Dibromo-3-chloropropane	BMS	ND	30.4	101	(73-130)			30.0	ug/L 04/29/2008
	BMSD		30.8	103		1	(< 20)	30.0	ug/L 04/29/2008
Methyl-t-butyl ether	BMS	ND	42.8	95	(80-120)			45.0	ug/L 04/29/2008
	BMSD		52.5	117		20 *	(< 20)	45.0	ug/L 04/29/2008
Tetrachloroethene	BMS	ND	28	93	(79-122)			30.0	ug/L 04/29/2008
	BMSD		27.7	92		1	(< 20)	30.0	ug/L 04/29/2008
Dibromochloromethane	BMS	ND	29.8	99	(80-120)			30.0	ug/L 04/29/2008
	BMSD		30.3	101		2	(< 20)	30.0	ug/L 04/29/2008
1,3-Dichloropropane	BMS	ND	30.6	102	(80-121)			30.0	ug/L 04/29/2008
	BMSD		31.0	103		1	(< 20)	30.0	ug/L 04/29/2008
1,2-Dibromoethane	BMS	ND	29.8	99	(80-120)			30.0	ug/L 04/29/2008
	BMSD		30.2	101		2	(< 20)	30.0	ug/L 04/29/2008
Carbon tetrachloride	BMS	ND	31	103	(80-126)			30.0	ug/L 04/29/2008
	BMSD		32.7	109		5	(< 20)	30.0	ug/L 04/29/2008
1,1,1,2-Tetrachloroethane	BMS	ND	28.8	96	(80-120)			30.0	ug/L 04/29/2008
	BMSD		29.2	97		1	(< 20)	30.0	ug/L 04/29/2008
Chloroform	BMS	ND	27.2	91	(80-124)			30.0	ug/L 04/29/2008
	BMSD		27.4	91		1	(< 20)	30.0	ug/L 04/29/2008
Bromobenzene	BMS	ND	26.3	88	(80-120)			30.0	ug/L 04/29/2008
	BMSD		27.1	91		3	(< 20)	30.0	ug/L 04/29/2008
Chloromethane	BMS	ND	29.6	99	(67-125)			30.0	ug/L 04/29/2008
	BMSD		30.1	100		2	(< 20)	30.0	ug/L 04/29/2008
1,2,3-Trichloropropane	BMS	ND	26.8	89	(80-120)			30.0	ug/L 04/29/2008
	BMSD		28.2	94		5	(< 20)	30.0	ug/L 04/29/2008
Bromomethane	BMS	ND	27.1	90	(30-140)			30.0	ug/L 04/29/2008
	BMSD		27.9	93		3	(< 20)	30.0	ug/L 04/29/2008
Bromochloromethane	BMS	ND	26.1	87	(77-129)			30.0	ug/L 04/29/2008
	BMSD		27.7	92		6	(< 20)	30.0	ug/L 04/29/2008
Vinyl chloride	BMS	ND	31.4	105	(72-145)			30.0	ug/L 04/29/2008
	BMSD		31.2	104		1	(< 20)	30.0	ug/L 04/29/2008
Dichlorodifluoromethane	BMS	ND	31.4	105	(62-153)			30.0	ug/L 04/29/2008
	BMSD		33.3	111		6	(< 20)	30.0	ug/L 04/29/2008
Chloroethane	BMS	ND	25.5	85	(67-133)			30.0	ug/L 04/29/2008
	BMSD		29.3	98		14	(< 20)	30.0	ug/L 04/29/2008
sec-Butylbenzene	BMS	ND	28.2	94	(80-120)			30.0	ug/L 04/29/2008
	BMSD		28.9	96		3	(< 20)	30.0	ug/L 04/29/2008
Bromodichloromethane	BMS	ND	31.8	106	(80-120)			30.0	ug/L 04/29/2008
	BMSD		33.2	111		4	(< 20)	30.0	ug/L 04/29/2008
1,1-Dichloroethene	BMS	ND	26.4	88	(76-130)			30.0	ug/L 04/29/2008
	BMSD		28.2	94		7	(< 20)	30.0	ug/L 04/29/2008



SGS Ref.# 1081553002 Billable Matrix Spike Printed Date/Time 05/13/2008 16:35
1081553003 Billable Matrix Spike Dup. Prep Batch VXX18041
Method Volatiles Extraction AFCEE 3.1
Date 04/29/2008

Original 1081553001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

2-Butanone (MEK)	BMS ND	82.3	92	(66-136)				90.0	ug/L 04/29/2008
	BMSD	90.3	100			9	(< 20)	90.0	ug/L 04/29/2008
Methylene chloride	BMS ND	25.6	85	(63-131)				30.0	ug/L 04/29/2008
	BMSD	27.2	91			6	(< 20)	30.0	ug/L 04/29/2008
Trichlorofluoromethane	BMS ND	31.7	106	(68-145)				30.0	ug/L 04/29/2008
	BMSD	32.5	108			3	(< 20)	30.0	ug/L 04/29/2008
P & M -Xylene	BMS ND	60.5	101	(80-120)				60.0	ug/L 04/29/2008
	BMSD	58.8	98			3	(< 20)	60.0	ug/L 04/29/2008
Naphthalene	BMS ND	26.1	87	(75-120)				30.0	ug/L 04/29/2008
	BMSD	28.1	94			7	(< 20)	30.0	ug/L 04/29/2008
o-Xylene	BMS ND	28	93	(80-120)				30.0	ug/L 04/29/2008
	BMSD	28.4	95			1	(< 20)	30.0	ug/L 04/29/2008
Bromoform	BMS ND	30.5	102	(80-120)				30.0	ug/L 04/29/2008
	BMSD	30.8	103			1	(< 20)	30.0	ug/L 04/29/2008
1-Chlorohexane	BMS ND	46.7	104	(70-125)				45.0	ug/L 04/29/2008
	BMSD	45.0	100			4	(< 20)	45.0	ug/L 04/29/2008
1,2,4-Trimethylbenzene	BMS ND	27.3	91	(80-125)				30.0	ug/L 04/29/2008
	BMSD	28.2	94			3	(< 20)	30.0	ug/L 04/29/2008
tert-Butylbenzene	BMS ND	27.6	92	(80-122)				30.0	ug/L 04/29/2008
	BMSD	28.9	96			4	(< 20)	30.0	ug/L 04/29/2008
1,1,1-Trichloroethane	BMS ND	28.2	94	(80-122)				30.0	ug/L 04/29/2008
	BMSD	29.4	98			4	(< 20)	30.0	ug/L 04/29/2008
1,1-Dichloroethane	BMS ND	29.6	99	(80-120)				30.0	ug/L 04/29/2008
	BMSD	31.0	103			5	(< 20)	30.0	ug/L 04/29/2008
2-Chlorotoluene	BMS ND	27.1	90	(80-125)				30.0	ug/L 04/29/2008
	BMSD	27.7	92			2	(< 20)	30.0	ug/L 04/29/2008
Trichloroethene	BMS ND	26.9	90	(80-125)				30.0	ug/L 04/29/2008
	BMSD	28.8	96			7	(< 20)	30.0	ug/L 04/29/2008
trans-1,2-Dichloroethene	BMS ND	27.3	91	(79-132)				30.0	ug/L 04/29/2008
	BMSD	28.5	95			4	(< 20)	30.0	ug/L 04/29/2008
1,2-Dichlorobenzene	BMS ND	26	87	(80-120)				30.0	ug/L 04/29/2008
	BMSD	27.4	91			5	(< 20)	30.0	ug/L 04/29/2008
2,2-Dichloropropane	BMS ND	31.1	104	(80-132)				30.0	ug/L 04/29/2008
	BMSD	34.7	116			11	(< 20)	30.0	ug/L 04/29/2008
Hexachlorobutadiene	BMS ND	29.4	98	(77-125)				30.0	ug/L 04/29/2008
	BMSD	28.9	96			2	(< 20)	30.0	ug/L 04/29/2008
Isopropylbenzene (Cumene)	BMS ND	29.6	99	(80-121)				30.0	ug/L 04/29/2008
	BMSD	28.9	96			3	(< 20)	30.0	ug/L 04/29/2008
1,2-Dichloropropane	BMS ND	27.2	91	(80-121)				30.0	ug/L 04/29/2008
	BMSD	28.7	96			5	(< 20)	30.0	ug/L 04/29/2008



SGS Ref.# 1081553002 Billable Matrix Spike
1081553003 Billable Matrix Spike Dup.

Printed Date/Time 05/13/2008 16:35
Prep Batch VXX18041
Method Volatiles Extraction AFCEE 3.1
Date 04/29/2008

Original 1081553001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
1,1-Dichloropropene	BMS	ND	26	87	(80-122)			30.0	ug/L 04/29/2008
	BMSD		27.1	90		4	(< 20)	30.0	ug/L 04/29/2008
1,1,2-Trichloroethane	BMS	ND	28.9	96	(77-120)			30.0	ug/L 04/29/2008
	BMSD		28.5	95		1	(< 20)	30.0	ug/L 04/29/2008
1,3-Dichlorobenzene	BMS	ND	26	87	(80-120)			30.0	ug/L 04/29/2008
	BMSD		27.2	91		5	(< 20)	30.0	ug/L 04/29/2008
1,2,3-Trichlorobenzene	BMS	ND	25.8	86	(77-120)			30.0	ug/L 04/29/2008
	BMSD		27.0	90		5	(< 20)	30.0	ug/L 04/29/2008
Surrogates									
1,2-Dichloroethane-D4 <surr>	BMS		29.7	99	(73-120)				04/29/2008
	BMSD		30.1	100		1			04/29/2008
Toluene-d8 <surr>	BMS		30.8	103	(80-120)				04/29/2008
	BMSD		30.1	100		2			04/29/2008
4-Bromofluorobenzene <surr>	BMS		28.8	96	(76-120)				04/29/2008
	BMSD		29.0	97		1			04/29/2008

Batch VMS9727
Method SW8260B
Instrument HP 5890 Series II MS3 VNA

Polynuclear Aromatics GC/MS



SGS Ref.# 1081553002 Billable Matrix Spike
1081553003 Billable Matrix Spike Dup.

Printed Date/Time 05/13/2008 16:35
Prep Batch XXX19235
Method 3520 Liquid/Liquid Ext for 827
Date 04/18/2008

Original 1081553001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polynuclear Aromatics GC/MS									
Acenaphthylene	BMS ND	.527		98	(50-105)			0.538	ug/L 04/25/2008
	BMSD	0.496		96		6	(< 30)	0.515	ug/L 04/25/2008
Acenaphthene	BMS ND	.471		88	(45-110)			0.538	ug/L 04/25/2008
	BMSD	0.445		86		6	(< 30)	0.515	ug/L 04/25/2008
Fluorene	BMS ND	.514		96	(50-110)			0.538	ug/L 04/25/2008
	BMSD	0.479		93		7	(< 30)	0.515	ug/L 04/25/2008
Phenanthrene	BMS ND	.528		98	(50-115)			0.538	ug/L 04/25/2008
	BMSD	0.493		96		7	(< 30)	0.515	ug/L 04/25/2008
Anthracene	BMS ND	.53		99	(50-110)			0.538	ug/L 04/25/2008
	BMSD	0.511		99		4	(< 30)	0.515	ug/L 04/25/2008
Fluoranthene	BMS ND	.562		104	(55-115)			0.538	ug/L 04/25/2008
	BMSD	0.517		100		8	(< 30)	0.515	ug/L 04/25/2008
Pyrene	BMS ND	.541		101	(50-126)			0.538	ug/L 04/25/2008
	BMSD	0.501		97		8	(< 30)	0.515	ug/L 04/25/2008
Benzo(a)Anthracene	BMS ND	.595		111*	(55-110)			0.538	ug/L 04/25/2008
	BMSD	0.538		104		10	(< 30)	0.515	ug/L 04/25/2008
Chrysene	BMS ND	.556		103	(55-110)			0.538	ug/L 04/25/2008
	BMSD	0.517		100		7	(< 30)	0.515	ug/L 04/25/2008
Benzo[b]Fluoranthene	BMS ND	.601		112	(45-120)			0.538	ug/L 04/25/2008
	BMSD	0.557		108		8	(< 30)	0.515	ug/L 04/25/2008
Benzo[k]fluoranthene	BMS ND	.605		113	(49-125)			0.538	ug/L 04/25/2008
	BMSD	0.539		105		12	(< 30)	0.515	ug/L 04/25/2008
Benzo[a]pyrene	BMS ND	.602		112*	(55-110)			0.538	ug/L 04/25/2008
	BMSD	0.559		108		8	(< 30)	0.515	ug/L 04/25/2008
Indeno[1,2,3-c,d] pyrene	BMS ND	.576		107	(45-125)			0.538	ug/L 04/25/2008
	BMSD	0.518		100		11	(< 30)	0.515	ug/L 04/25/2008
Dibenzo[a,h]anthracene	BMS ND	.582		108	(40-125)			0.538	ug/L 04/25/2008
	BMSD	0.521		101		11	(< 30)	0.515	ug/L 04/25/2008
Benzo[g,h,i]perylene	BMS ND	.542		101	(40-125)			0.538	ug/L 04/25/2008
	BMSD	0.488		95		11	(< 30)	0.515	ug/L 04/25/2008
Naphthalene	BMS ND	.45		84	(40-115)			0.538	ug/L 04/25/2008
	BMSD	0.446		86		1	(< 30)	0.515	ug/L 04/25/2008
1-Methylnaphthalene	BMS 0.0435 J	.491		83	(35-121)			0.538	ug/L 04/25/2008
	BMSD	0.445		78		10	(< 30)	0.515	ug/L 04/25/2008
2-Methylnaphthalene	BMS 0.0561	.485		80	(45-105)			0.538	ug/L 04/25/2008
	BMSD	0.440		75		10	(< 30)	0.515	ug/L 04/25/2008
Surrogates									
Terphenyl-d14 <surr>	BMS	.397		74	(50-135)				04/25/2008
	BMSD	0.357		69		11			04/25/2008



SGS Ref.# 1081553002 Billable Matrix Spike
1081553003 Billable Matrix Spike Dup.

Printed Date/Time 05/13/2008 16:35
Prep Batch XXX19235
Method 3520 Liquid/Liquid Ext for 827
Date 04/18/2008

Original 1081553001
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Polynuclear Aromatics GC/MS

Batch XMS4467
Method 8270D SIMS
Instrument HP 5890 Series II MS2 SVOA



CHAIN OF CUSTODY RE
SGS Environmental Service

1081553



CLIENT: TEC INC.	SGS Reference #:
CONTACT: Jeff Hart	PHONE NO: 808.528.1445
PROJECT: 9121-003	SITE/PWSID#: Red Hill BFSF
REPORTS TO: Jeff Hart	email jshart@tecinc.com cc snmacmillan@tecinc.com
INVOICE TO: TEC INC	QUOTE #: P.O. NUMBER:

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv. Used SAMPLE TYPE C = COMP G = GRAB	HCL					HNO ₃							
							TPH-GRO (8015B)	TPH-DRO (8015B)	VOC's (8260B)	PAH's (8270C-SIMS)	Diss Pb (6020)								
① A-K	RHMW2254-WG-11	4/15/2008	1030	Water	11		X	X	X	X	X								
② A-K	RHMW03-WG-11	4/15/2008	1215	Water	6		X		X										
⑤ ↓	RHMW02-WG-11	4/15/2008	1345	Water	6		X		X										
⑥ ↓	RHMWA01-WG-11	4/15/2008	1205	Water	6		X		X										
⑦ ↓	RHMW01-WG-11	4/15/2008	1515	Water	6		X		X										
⑧ A-C	TB01-WG-11	4/15/2008	0805	Water	3				X										

Collected/Relinquished By: (1) <i>Jeff Hart, R.C.</i>	Date 4/15/2008	Time 1745	Received By <i>[Signature]</i>	Shipping Carrier
Relinquished By (2) <i>[Signature]</i>	Date 4/16/08	Time 1800	Received By <i>[Signature]</i>	Shipping Ticket No:
Relinquished By: (3)	Date	Time	Received By:	Special Deliverable Requirements. See Contract
Relinquished By (4) <i>[Signature]</i>	Date 4/17/08	Time 1130	Received For Laboratory By: <i>[Signature]</i>	Requested Turnaround Time and-or Spec See Contract

- 200 W Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
- 151 James Drive West St Rose, LA 70087 Tel: (504) 469
- 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
- 1258 Greenbrier Street Charleston, WV 25311 Tel: (304)
- 255 Sand Island Access Rd., Unit 1B Honolulu, HI 96819 Tel: (808) 224-6217 Fax: (808) 845-228
- 5500 Business Drive Wilmington, NC 28405 Tel: (910)



CHAIN OF CUSTODY
SGS Environmental Services

1081553



CLIENT: TEC INC.					SGS Reference									
CONTACT: Jeff Hart					PHONE NO: 808 528.1445									
PROJECT: 9121-003					SITE/PWSID#: Red Hill BFSF									
REPORTS TO: Jeff Hart					email jshart@tecinc.com cc snmacmillan@tecinc.com									
INVOICE TO: TEC INC					QUOTE #: P.O. NUMBER:									
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	CONTAINERS	Preserv. Used	HCL	HCl	HNO ₃					
						SAMPLE TYPE	TPH-GRO (8015B)	TPH-DRO (8015B)	VOC's (8260B)	PAH's (8270C-SIMS)	Dis Pb (8020)			
DAK03A-L	RHMW2254-WG-11	4/15/2008	1030	Water	10	C = COMP G = GRAB	X	X	X					
Collected/Relinquished By (1) <i>Jeff Hart, R.C.</i>					Date	Time	Received By: <i>[Signature]</i>			Shipping Carrier				
Relinquished By (2) <i>[Signature]</i>					Date	Time	Received By: <i>[Signature]</i>			Shipping Ticket No.				
Relinquished By (3)					Date	Time	Received By: <i>[Signature]</i>			Special Deliverable Requirements. See Contract				
Relinquished By (4) <i>[Signature]</i>					Date	Time	Received For Laboratory By: <i>[Signature]</i>			Requested Turnaround Time and/or Special Handling. See Contract				

- 200 W Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 562-5301
- 151 James Drive West St Rose, LA 70087 Tel: (504) 474-5301
- 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
- 1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 343-7000
- 255 Sand Island Access Rd, Unit 1B Honolulu, HI 96819 Tel: (808) 224-6217 Fax: (808) 845-228
- 5500 Business Drive Wilmington, NC 28405 Tel: (910) 398-7000



CHAIN OF CUSTODY
SGS Environmental Services

1081553



CLIENT: TEC INC.		SGS Reference #:	
CONTACT: Jeff Hart		PHONE NO: 808.528.1445	
PROJECT: 9121-003		SITE/PWSID#: Red Hill BFSF	
REPORTS TO: Jeff Hart		email jshart@tecinc.com cc snmacmillan@tecinc.com	
INVOICE TO: TEC INC		QUOTE #: P.O. NUMBER:	

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv.				
						TPH-GRO (8015B)	TPH-DRO (8015B)	VOC's (8280B)	PAH's (8270C-SIMS)	Disas Pb (8020)
④ A-K	RHMW03-WG-11	4/15/2008	1215	Water	5		X	X	X	
⑤ A-K	RHMW01-WG-11	4/15/2008	1515	Water	5		X	X	X	

Collected/Relinquished By: (1) <i>Jeff L. Hart, R.C.</i>	Date 4/15/2008	Time 1745	Received By: <i>[Signature]</i>	Shipping Carrier:
Relinquished By: (2) <i>[Signature]</i>	Date 4/16/08	Time 1800	Received By: <i>[Signature]</i>	Shipping Ticket No.
Relinquished By: (3)	Date	Time	Received By: <i>[Signature]</i>	Special Deliverable Requirements: See Contract
Relinquished By: (4) <i>[Signature]</i>	Date 4/17/08	Time 1130	Received From Laboratory By: <i>[Signature]</i>	Requested Turnaround Time and-or Special Requirements: See Contract

- 200 W Potter Drive Anchorage, AK 99518 Tel (907) 562-2343 Fax (907) 561-5301
- 151 James Drive West St Rose, LA 70087 Tel: (504) 469
- 3180 Peger Road Fairbanks, AK 99701 Tel. (907) 474-8656 Fax: (907) 474-9685
- 1258 Greenbrier Street Charleston, WV 25311 Tel: (304)
- 255 Sand Island Access Rd , Unit 1B Honolulu, HI 96819 Tel (808) 224-6217 Fax: (808) 845-228
- 5500 Business Drive Wilmington, NC 28405 Tel (910)



1081553



JSTODY RECORD
ental Services Inc.

CLIENT: TEC INC.					SGS Reference #:									
CONTACT: Jeff Hart					PHONE NO: 808 528.1445									
PROJECT: 9121-003					SITE/PWSID#: Red Hill BFSF									
REPORTS TO: Jeff Hart					email jshart@tecinc.com cc srmacmillan@tecinc.com									
INVOICE TO: TEC INC					QUOTE #: P.O. NUMBER:									
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv. Used SAMPLE TYPE	HCL	HCL	HNO ₃					
							C= COMP	TPH-GRO (8015B)	TPH-DRO (8015B)	VOC's (8260B)	PAH's (8270C-SIMS)	Dis Pb (8020)		
5) A-K	RHMW02-WG-11	4/15/2008	1345	Water	5			X		X	X			
6) A-K	RHMWA01-WG-11	4/15/2008	1205	Water	5			X		X	X			
Collected/Relinquished By (1) <i>Jeff S. Hart, R.C.</i>					Date	Time	Received By: <i>[Signature]</i>			Shipping Carrier.				
Relinquished By (2) <i>[Signature]</i>					Date	Time	Received By: <i>[Signature]</i>			Shipping Ticket No				
Relinquished By (3) <i>[Signature]</i>					Date	Time	Received By: <i>[Signature]</i>			Special Deliverable Requirements: See Contract				
Relinquished By (4) <i>[Signature]</i>					Date	Time	Received For Laboratory By: <i>[Signature]</i>			Requested Turnaround Time and-or Sp See Contract				

- 200 W Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
- 151 James Drive West St Rose, LA 70087 Tel: (504)
- 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
- 1258 Greenbrier Street Charleston, WV 25311 Tel: (304)
- 255 Sand Island Access Rd, Unit 1B Honolulu, HI 96819 Tel: (808) 224-6217 Fax: (808) 845-228
- 5500 Business Drive Wilmington, NC 28405 Tel: (910)

1081553



SGS

SAMPLE RECEIPT FORM

SGS WO#:

- Yes No NA
- Are samples **RUSH**, priority, or w/n 72 hrs. of hold time?
- If yes have you done *e-mail notification*?
- Are samples *within 24 hrs.* of hold time or due date?
- If yes, have you *spoken with* Supervisor?
- Archiving bottles- if req., are they properly marked?
- Are there any **problems**? PM Notified? _____
- Were samples preserved correctly and pH verified?

Due Date: 5-7-08

Received Date: 4-15-08

Received Time: 1745

Is date/time conversion necessary? YES

of hours to AK Local Time: +2HR

Thermometer ID: D

Cooler ID	Temp Blank	Cooler Temp
#1	4.1 °C	°C
#2	5.6 °C	°C
#3	5.8 °C	°C
#4	4.2 °C	°C
#5	4.5 °C	°C

*Temperature readings include thermometer correction factors

Delivery method (circle all that apply): Client

Alert Courier / UPS / FedEx / USPS /

AA Goldstreak / NAC / ERA / PenAir / Carille

Lynden / SGS / Other: _____

Airbill # _____

Additional Sample Remarks: (*√if applicable*)

Extra Sample Volume? _____

Limited Sample Volume? _____

Field preserved for volatiles? _____

Field-filtered for dissolved? _____

Lab-filtered for dissolved? _____

Ref Lab required? _____

Foreign Soil? _____

This section must be filled if problems are found.

Yes No

Was client notified of problems? _____

Individual contacted: _____

Via: Phone / Fax / Email (*circle one*)

Date/Time: _____

Reason for contact: _____

Change Order Required? _____

SGS Contact: _____

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

- Yes No
- Is received temperature $4 \pm 2^\circ\text{C}$?
Exceptions: _____ Samples/Analyses Affected: _____
- Rad Screen performed? Result: _____
- Was there an airbill? (*Note # above in the right hand column*)
- Was cooler sealed with custody seals?
/ where: _____
- Were seal(s) intact upon arrival?
- Was there a COC with cooler?
- Was COC sealed in plastic bag & taped inside lid of cooler?
- Was the COC filled out properly?
- Did the COC indicate COE / AFCEE / Navy project?
- Did the COC and samples correspond?
- Were all sample packed to prevent breakage?
Packing material: _____
- Were all samples unbroken and clearly labeled?
- Were all samples sealed in separate plastic bags?
- Were all VOCs free of headspace and/or MeOH preserved?
- Were correct container / sample sizes submitted?
- Is sample condition good?
- Was copy of CoC, SRF, and custody seals given to PM to fax?

Notes:

** Silent (And) DRO's*

** PDR + RECAL*

Completed by (sign): [Signature] (print): _____

Login proof (check one): waived _____ required performed by: [Signature]



1081553



SGS WOI

SAMPLE RECEIPT FORM FOR TRANSFERS
From
FAIRBANKS, ALASKA OR HONOLULU, HAWAII
To
ANCHORAGE, AK

TO BE COMPLETED IN ANCHORAGE UPON ARRIVAL FROM FAIRBANKS OR HAWAII.
NOTES RECORDED BELOW ARE ACTIONS NEEDED UPON ARRIVAL IN ANCHORAGE.

Notes: _____

Receipt Date / Time: 9/17/08 1130
 Is Sample Date/Time Conversion Necessary? Yes No
 Number of Hours From Alaska Local Time: +2
 Foreign Soil? Yes No

Delivery method to Anchorage (circle all that apply):
 Alert Courier / UPS / FedEx / USPS / AA Goldstreak / NAC / ERA / PenAir / Carlile / Lynden / SGS
 Other: _____
 Airbill # _____

COOLER AND TEMP BLANK READINGS*

Cooler ID	Temp Blank (°C)	Cooler (°C)	Cooler ID	Temp Blank (°C)	Cooler (°C)
<u>1</u>	<u>1.1</u>	<u>4.1</u>	_____	_____	_____
<u>2</u>	<u>1.4</u>	<u>4.0</u>	_____	_____	_____
<u>3</u>	<u>2.7</u>	<u>1.3</u>	_____	_____	_____
<u>4</u>	<u>5.3</u>	<u>2.9</u>	_____	_____	_____

CUSTODY SEALS INTACT: YES / NO
 # / WHERE: 2, 1 on front + 1 on back x 4

COMPLETED BY: Joe Runt

*Temperature readings include thermometer correction factors.