



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 09, 2015

Danny Velo

RMR Operating

415 W Wall St, Ste 1310

Midland, TX 79701

TEL: (214) 871-0400

FAX (214) 871-0406

RECEIVED

By OCD; Dr. Oberding at 2:59 pm, Apr 24, 2015

RE: Sunray State Remediation

OrderNo.: 1501A83

Dear Danny Velo:

Hall Environmental Analysis Laboratory received 30 sample(s) on 1/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 1A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-001

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	52	7.5		mg/Kg	5	2/2/2015 1:18:44 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	1000	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.56	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 1B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-002

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	23	7.5		mg/Kg	5	2/2/2015 2:08:22 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	2700	200		mg/Kg	10	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.26	0.14		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 2A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-003

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1400	75		mg/Kg	50	2/3/2015 6:53:09 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	41	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.30	0.14		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 2B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-004

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1200	30		mg/Kg	20	2/2/2015 4:00:03 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	49	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.35	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 3A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-005

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	11	7.5		mg/Kg	5	2/2/2015 4:12:27 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.24	0.12		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 3B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-006

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	300	30		mg/Kg	20	2/2/2015 4:49:40 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.48	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 4A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-007

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	83	7.5		mg/Kg	5	2/2/2015 5:02:04 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.30	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 7 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 4B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-008

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	240	30		mg/Kg	20	2/2/2015 6:04:07 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.23	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 8 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 5A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-009

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	53	7.5		mg/Kg	5	2/2/2015 6:16:32 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	36	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.27	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 9 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 5B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-010

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	520	30		mg/Kg	20	2/2/2015 6:53:46 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	26	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.17	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 10 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 6A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-011

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	13	7.5		mg/Kg	5	2/2/2015 7:06:11 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.56	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 11 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 6B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-012

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	72	30		mg/Kg	20	2/2/2015 7:43:25 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.18	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 12 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 7A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-013

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1300	75		mg/Kg	50	2/3/2015 7:05:34 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.24	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 13 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 7B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-014

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1700	75		mg/Kg	50	2/3/2015 7:17:59 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	67	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.27	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 14 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 8A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-015

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	7.5		mg/Kg	5	2/2/2015 9:10:17 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.27	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 15 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 8B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-016

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	13	1.5		mg/Kg	1	2/2/2015 9:35:07 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.21	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 16 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 9A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-017

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	89	7.5		mg/Kg	5	2/2/2015 9:59:55 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.20	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 17 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 9B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-018

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	45	7.5		mg/Kg	5	2/2/2015 10:49:34 PM	17519
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.23	0.13		% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 18 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 10A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-019

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	7.5		mg/Kg	5	2/3/2015 12:16:07 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.35	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 19 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 10B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-020

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	7.5		mg/Kg	5	2/3/2015 1:30:34 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	20	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.20	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 20 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 11A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-021

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	34	1.5		mg/Kg	1	2/3/2015 1:55:22 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.23	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 21 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 11B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-022

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	21	1.5		mg/Kg	1	2/3/2015 2:20:11 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	230	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.60	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 22 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 12A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-023

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	17	7.5		mg/Kg	5	2/3/2015 2:45:00 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.18	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 23 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1501A83

Date Reported: 2/9/2015

CLIENT: RMR Operating

Client Sample ID: 12B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-024

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	16	7.5		mg/Kg	5	2/3/2015 3:34:38 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.19	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 24 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 13A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-025

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	7.7	1.5		mg/Kg	1	2/3/2015 3:59:28 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.19	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 25 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 13B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-026

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	510	30		mg/Kg	20	2/3/2015 4:36:41 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.13	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 26 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 14A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-027

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	92	7.5		mg/Kg	5	2/3/2015 4:49:05 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.21	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 27 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 14B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-028

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	64	7.5		mg/Kg	5	2/3/2015 5:13:54 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.17	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 28 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 15A

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-029

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	24	1.5		mg/Kg	1	2/3/2015 6:03:32 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	0.23	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 29 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1501A83**

Date Reported: **2/9/2015**

CLIENT: RMR Operating

Client Sample ID: 15B

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-030

Matrix: SOIL

Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	25	1.5		mg/Kg	1	2/3/2015 6:28:20 PM	17532
EPA METHOD 418.1: TPH							Analyst: WL
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM							Analyst: SRM
TOC	ND	0.13		% C	1	2/6/2015 9:33:00 AM	17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 30 of 33
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501A83

09-Feb-15

Client: RMR Operating

Project: Sunray State Remediation

Sample ID	1501A83-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions						
Client ID:	1A	Batch ID:	17519	RunNo:	24061						
Prep Date:	2/2/2015	Analysis Date:	2/2/2015	SeqNo:	709173	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	61	7.5	15.00	52.09	60.1	71.6	122			S	

Sample ID	1501A83-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions						
Client ID:	1A	Batch ID:	17519	RunNo:	24061						
Prep Date:	2/2/2015	Analysis Date:	2/2/2015	SeqNo:	709174	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	60	7.5	15.00	52.09	55.9	71.6	122	1.03	20	S	

Sample ID	1501A83-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions						
Client ID:	1B	Batch ID:	17519	RunNo:	24061						
Prep Date:	2/2/2015	Analysis Date:	2/2/2015	SeqNo:	709177	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	38	7.5	15.00	23.21	100	71.6	122				

Sample ID	1501A83-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions						
Client ID:	1B	Batch ID:	17519	RunNo:	24061						
Prep Date:	2/2/2015	Analysis Date:	2/2/2015	SeqNo:	709178	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	36	7.5	15.00	23.21	87.0	71.6	122	5.27	20		

Sample ID	MB-17532	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID:	17532	RunNo:	24080						
Prep Date:	2/3/2015	Analysis Date:	2/3/2015	SeqNo:	709800	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-17532	SampType:	LCS	TestCode:	EPA Method 300.0: Anions						
Client ID:	LCSS	Batch ID:	17532	RunNo:	24080						
Prep Date:	2/3/2015	Analysis Date:	2/3/2015	SeqNo:	709801	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	92.5	90	110				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501A83

09-Feb-15

Client: RMR Operating

Project: Sunray State Remediation

Sample ID	1501A83-019AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	10A	Batch ID:	17532	RunNo:	24080					
Prep Date:	2/3/2015	Analysis Date:	2/3/2015	SeqNo:	709812	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	17	7.5	15.00	0	113	71.6	122			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501A83

09-Feb-15

Client: RMR Operating
Project: Sunray State Remediation

Sample ID	MB-17491		SampType:	MBLK		TestCode:	EPA Method 418.1: TPH				
Client ID:	PBS		Batch ID:	17491		RunNo:	24067				
Prep Date:	1/30/2015		Analysis Date:	2/3/2015		SeqNo:	709367		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	ND	20									

Sample ID	LCS-17491		SampType:	LCS		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS		Batch ID:	17491		RunNo:	24067				
Prep Date:	1/30/2015		Analysis Date:	2/3/2015		SeqNo:	709368		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	100	20	100.0	0	101	86.7	126				

Sample ID	LCSD-17491		SampType:	LCSD		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS02		Batch ID:	17491		RunNo:	24067				
Prep Date:	1/30/2015		Analysis Date:	2/3/2015		SeqNo:	709369		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	100	20	100.0	0	101	86.7	126	0	20		

Sample ID	MB-17492		SampType:	MBLK		TestCode:	EPA Method 418.1: TPH				
Client ID:	PBS		Batch ID:	17492		RunNo:	24069				
Prep Date:	1/30/2015		Analysis Date:	2/3/2015		SeqNo:	710025		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	ND	20									

Sample ID	LCS-17492		SampType:	LCS		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS		Batch ID:	17492		RunNo:	24069				
Prep Date:	1/30/2015		Analysis Date:	2/3/2015		SeqNo:	710026		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	100	20	100.0	0	102	86.7	126				

Sample ID	LCSD-17492		SampType: LCSD		TestCode: EPA Method 418.1: TPH					
Client ID:	LCSS02		Batch ID: 17492		RunNo: 24069					
Prep Date:	1/30/2015		Analysis Date: 2/3/2015		SeqNo: 710027		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	101	86.7	126	1.32	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: RMR OPERATING

Work Order Number: 1501A83

RcptNo: 1

Received by/date:

CS

01/29/15

Logged By: Celina Sessa

1/29/2015 12:00:00 PM

Celina Sessa

Completed By: Celina Sessa

1/30/2015 1:51:16 PM

Celina Sessa

Reviewed By:

CS/Ja

02/02/15

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? USPS

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
Approved by client.
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified: Jacob Holmes

Date: 1/30/2015

By Whom: Celina Sessa

Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: Incomplete COC

Client Instructions: Fill out rest of COC with sample names on jar, analyses same as all 3 previous jobs. -CS

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.1	Good	Yes			

Chain-of-Custody Record

Client: Red Mountain Resources

RMR OPERATIONS

Mailing Address: 415 W. Wall Street,

Suite 1310 Midland, TX 79701

Phone #: 575 200 5589

email or Fax#: 214 871 0400

QACC Package: 214 871 0400

☒ Standard ☐ Level 4 (Full Validation)

Accreditation ☒ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

Standard ☐ Rush

Project Name: Surry State

Remediation

Project #:

Project Manager: Danny Velo

575 200 5589

Sampler:

On Ice: ☐ Yes ☒ No

Sample Temperature: 20.1°C

Container Type and #

Preservative Type

HEAL No.

1-27-15 12:00pm

5011

1A

402-1

1501A83

samples taken at

19 and 36 inches

2B

3A

3B

4A

4B

5A

5B

6A

6B

01/30/15

CS

Received by:

Reline Sam

Date

Date

01/29/15

Time

Received by:

Reline Sam

Date

Date

01/30/15

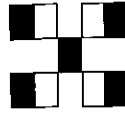
Time

Remarks:

CS 01/30/15 per Jacob Holmes

575 200 5589

dvelo@redmountainresources.com



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

PCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

~~8270 (Semi-VOA)~~

~~8270 (Semi-VOA)~~

~~8270 (Semi-VOA)~~

~~8270 (Semi-VOA)~~

~~8270 (Semi-VOA)~~

~~8270 (Semi-VOA)~~

~~8270 (Semi-VOA)~~

Air Bubbles (Y or N)

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

☒

Chain-of-Custody Record

Client: RMR operating

Mailing Address:

Phone #:

email or Fax#: (575) 706-5589

QA/QC Package:

☒ Standard

☐ Level 4 (Full Validation)

Accreditation

☐ NELAP

☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Sunray State Remediation

Project #:

Project Manager:

Danny Velo

Sampler:

On Ice: ☐ Yes ☒ No

Sample Temperature: 20.1°C

Date Time Matrix Sample Request ID

12/15 12:00 7A 7B 8A 8B 9A 9B 10A 10B 11A 11B 12A 12B

Container Type and #

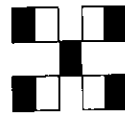
402-1

Preservative Type

HEAL No. 1501A83

BTEX + MTBE + TMB's (8021)
BTEX + MTBE + TPH (Gas only)
TPH 8015B (GRO / DRO / MRO)
TPH (Method 418.1)
EDB (Method 504.1)
PAH's (8310 or 8270 SIMS)
RCRA 8 Metals
Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)
8081 Pesticides / 8082 PCB's
8260B (VOA)
8270 (Semi-VOA)
Total Organic Carbon
Air Bubbles (Y or N)

Analysis Request



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Remarks:

OS 01/30/15 per Jacob Holmes

Received by: Date Time

William Sam 01/29/15 1200

Received by: Date Time

Relinquished by: Date Time

Relinquished by: Date Time

Chain-of-Custody Record

Client: RMR Operating

Mailing Address:

Phone #:

email or Fax#: (575) 766-5589

QA/QC Package:

☒ Standard

☐ Level 4 (Full Validation)

Accreditation

☐ NELAP

☐ Other

☐ EDD (Type)

Sampler:

On Ice: ☐ Yes ☒ No

Sample Temperature: 20.1°C

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

1501A83

-025

-026

-027

-028

-029

-030

Date:

Time:

Relinquished by:

Date

Time

Date:

Time:

Relinquished by:

Date

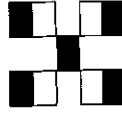
Time

Received by:

Celina Sam 01/29/15 1200

Remarks:

CS 01/30/15 per Jacob Holmes



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Total Organic Carbon

Air Bubbles (Y or N)