



Reliance Laboratories, Inc.
2044 Meadowbrook Road | P.O. Box 4657
Bridgeport, WV 26330
Phone: 304.842.5285 | Fax: 304.842.5351

Martinsburg Laboratory
Ridgefield Business Center | 25 Crimson Circle
Martinsburg, WV 25403
Phone: 304.596.2084 | Fax: 304.596.2086

Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901



LABORATORY REPORT SUMMARY

Client: C06407

Tuesday, October 14, 2014

FAIRMONT BRINE PROCESSING, LLC
1501 Reedsdale Street, Suite 505
PITTSBURGH

PA 15233-

Total Number of Pages: 4
(Not Including C.O.C.)
Page 1 of 4

Lab ID	Sample ID	Sample ID 2	Sample Date
218683-2014-SL	501-00001	SLUDGE-BOTTOM OF CONCRETE BASIN	9/12/2014

The enclosed results have been analyzed according to the referenced method and SOP. Any deviations to the method have been noted on the report. Unless otherwise noted, all results have been verified to meet quality control requirements of the method. This report may not be reproduced, except in full, without written approval of Reliance Laboratories, Inc.

Report Reviewed By:



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FAIRMONT BRINE PROCESSING, LLC
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Tuesday, October 14, 2014
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PITTSBURGH, PA 15233-

Lab Number: 218683-2014-SI **Sample ID:** 501-00001
 SLUDGE-BOTTOM OF CONCRETE BASIN

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Analyte Group: <u>Inorganics</u>							
Percent Solids	19.5	%	SM2540B-97	9/15/2014 10:40	CT		
Total Volatile Solids	50.5	%	EPA 160.4	9/15/2014 10:40	CT		
Flashpoint	> 200	Deg F	SW1010A	9/18/2014 14:25	KD		
pH	8.00	S.U.	SW9045D	9/18/2014 13:50	KV		
Reactive Cyanide	< 1	mg/kg	SM4500CND-99	9/19/2014 9:10	KD	1	250
Reactive Sulfide	< 1	mg/kg	SW9030B	9/26/2014 17:07	MC	1	500

Remarks:

Date Sample Collected: 9/12/2014 10:10
 Sample Submitted By: B.PLEMONS
 Date Sample Received: 9/12/2014 10:50
 Sample temp. upon receipt: 20.6 Deg C

ND = Not Detected at the MDL or MRL
 MRL - Minimum Reporting Limit
 [MCL] = Maximum Contaminant Level, Non-Regulated

*Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

NOTE: **mg/kg as received

NOTE: **mg/l in leachate



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Tuesday, October 14, 2014
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PITTSBURGH, PA 15233-

Lab Number: 218683-2014-SI **Sample ID:** 501-00001
 SLUDGE-BOTTOM OF CONCRETE BASIN

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Analyte Group: <u>Total Petroleum Hydrocarbons</u>							
TPH - DRO	8305	mg/kg	SW8015B/3550B	9/25/2014 18:24	MC	6.69	
TPH - ORO	1596	mg/kg	SW8015B/3550B	9/25/2014 18:24	MC	10	
o-Terphenyl (Surrogate)	113	%	SW8015B	9/25/2014 18:24	MC		
TPH - GRO	790	mg/kg	SW8015B/5035	9/24/2014 18:52	MC	0.5	
4-Bromochlorobenzene (Surrogate)	115	%	SW8015B	9/24/2014 18:52	MC		

Remarks:

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 Sample Submitted By: B.PLEMONS
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PITTSBURGH, PA 15233-

Lab Number: 218683-2014-SI **Sample ID:** 501-00001
 SLUDGE-BOTTOM OF CONCRETE BASIN

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Analyte Group: TCLP							
TCLP Arsenic**	0.041	mg/l**	SW6010C	9/24/2014 17:21	MC	0.01	5.0
TCLP Barium**	1.71	mg/l**	SW6010C	9/24/2014 17:21	MC	0.01	100.0
TCLP Cadmium**	ND	mg/l**	SW6010C	9/24/2014 17:21	MC	0.002	1.0
TCLP Chromium**	ND	mg/l**	SW6010C	9/24/2014 17:21	MC	0.006	5.0
TCLP Lead**	ND	mg/l**	SW6010C	9/24/2014 17:21	MC	0.01	5.0
TCLP Mercury**	ND	mg/l**	SW7470A	9/25/2014 16:31	MC	0.0001	0.2
TCLP Selenium**	ND	mg/l**	SW6010C	9/24/2014 17:21	MC	0.005	1.0
TCLP Silver**	ND	mg/l**	SW6010C	9/29/2014 18:04	MC	0.002	5.0
TCLP Solids	52.3	%	SW1311	9/30/2014 7:38	MC		
TCLP 1,1 Dichloroethylene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.002	0.7
TCLP 1,2 Dichloroethane**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.002	0.5
TCLP 1,4 Dichlorobenzene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.002	7.5
TCLP 2-Butanone**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.003	200
TCLP Benzene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.001	0.5
TCLP Carbon Tetrachloride**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.001	0.5
TCLP Chlorobenzene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.001	100
TCLP Chloroform**	0.0203	mg/l**	SW8260B	10/1/2014 19:24	MC	0.001	6
TCLP Hexachlorobutadiene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.003	0.5
TCLP Tetrachloroethylene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.001	0.7
TCLP Trichloroethylene**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.002	0.5
TCLP Vinyl Chloride**	ND	mg/l**	SW8260B	10/1/2014 19:24	MC	0.001	0.2
1,2-Dichloroethane-d4 (Surrogate)	50.6	%	SW8260B	10/1/2014 19:24	MC		
4-Bromofluorobenzene (Surrogate)	99.6	%	SW8260B	10/1/2014 19:24	MC		
Toluene-d8 (Surrogate)	96.6	%	SW8260B	10/1/2014 19:24	MC		

Remarks:

Date Sample Collected: 9/12/2014 10:10
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NOTE: **mg/kg as received

NOTE: **mg/l in leachate



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

October 13, 2014

Tenley Miller
Reliance Laboratories-Bridgeport
Benedum Industrial Park P.O. Box 4657
Bridgeport, WV 26330
TEL:
FAX:
RE: 218683

Order No.: 14092799

Dear Tenley Miller:

Summit Environmental Technologies, Inc. received 1 sample(s) on 9/25/2014 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

A handwritten signature in black ink, appearing to read "Mo Osman".

Dr. Mo Osman

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

A2LA 0724.01, Alabama 41600, Arizona AZ0788, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio Drinking Water 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010



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Cuyahoga Falls, Ohio 44223
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Workorder
Sample Summary
WO#: **14092799**
13-Oct-14

CLIENT: Reliance Laboratories-Bridgeport
Project: 218683

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
14092799-001	218386-2014-SL		9/12/2014 10:10:00 AM	9/25/2014 10:15:00 AM	Sludge



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 14092799
Date: 10/13/2014

CLIENT: Reliance Laboratories-Bridgeport
Project: 218683

This report in its entirety consists of the documents listed below. All documents contain the Summit Environmental Technologies, Inc. Work Order Number assigned to this report.

Paginated Report including: Cover Letter, Case Narrative, Analytical Results, Applicable Quality Control Summary Reports and copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the Limit of Quantitation (LOQ) but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

Method numbers, unless specified as SM (Standard Methods) or ASTM, are EPA methods.

Estimated uncertainty values are available upon request.



Summit Environmental Technologies, Inc.
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 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

WO#: 14092799
 Date Reported: 10/13/2014
 Company: Reliance Laboratories-Bridgeport
 Address: Benedum Industrial Park P.O. Box 4657
 Bridgeport WV 26330
 Received: 9/25/2014
 Project#: 218683

SVOC 8270 TCLP BNA List

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
218386-2014-SL	001	9/12/2014	1,4-Dichlorobenzene	0.10	ND	mg/L	Sludge	EPA 8270 C	1	7.5	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	2,4,5-Trichlorophenol	0.25	ND	mg/L	Sludge	EPA 8270 C	1	400	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	2,4,6-Trichlorophenol	0.25	ND	mg/L	Sludge	EPA 8270 C	1	2.0	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	2,4-Dinitrotoluene	0.10	ND	mg/L	Sludge	EPA 8270 C	1	0.13	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	Hexachloro-1,3-butadiene	0.10	ND	mg/L	Sludge	EPA 8270 C	1	0.50	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	Hexachlorobenzene	0.10	ND	mg/L	Sludge	EPA 8270 C	1	0.13	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	Hexachloroethane	0.10	ND	mg/L	Sludge	EPA 8270 C	1	3.0	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	Nitrobenzene	0.10	ND	mg/L	Sludge	EPA 8270 C	1	2.0	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	Pentachlorophenol	0.25	ND	mg/L	Sludge	EPA 8270 C	1	100	10/11/2014	AKE
218386-2014-SL	001	9/12/2014	Pyridine	0.25	ND	mg/L	Sludge	EPA 8270 C	1	5.0	10/11/2014	AKE



RELIANCE LABORATORIES, INC.

ENVIRONMENTAL ANALYSTS AND CONSULTANTS

BRIDGEPORT, WV

www.RelianceLabs.net

MARTINSBURG, WV

Certifications: WV Department of Health #: 00354, 00433 | WV Department of Environmental Protection #: 158, 181 |
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

Monday, September 15, 2014

Summit Environmental
3310 Win Street
Cuyahoga Falls, OH 44223

Please analyze the following sample(s) for: **TCLP Semi-Volatiles**

Please identify as:

218683-2014-S1

9/12/2014 10:10

Sample ID: 501-00001

Sampled by: B.Plemons

PLEASE SEND RESULTS & INVOICE TO:

RELIANCE LABORATORIES, INC.
ATTN: TENLEY MILLER
P.O. BOX 4657
BRIDGEPORT, WV 26330
tmiller@wvdsi.net

Thank You

PLEASE EXECUTE THE ENCLOSED CHAIN OF CUSTODY RECORD AND RETURN WITH RESULTS. THANK YOU.

TCLP extraction performed 9/23/2014

Summit Environmental Technologies, Inc. Cooler Receipt Form

Client: Reliance Initials of person inspecting cooler and samples: SC
 Date Received: 9-25-14 Time Received: 10:15 Order Number: _____
 Date cooler(s) opened and samples inspected: 9-25-14

Number of Coolers/Boxes: 1 N/A

Shipper: FED EX UPS DHL Airborne US Postal Walk-in Pickup Other: _____

Packaging: Peanuts Bubble Wrap Paper Foam None Other: _____

Tape on cooler/box: Y N N/A

Custody Seals intact Y N N/A

C-O-C in plastic Y N N/A

Ice Blue ice present absent / melted N/A

Sample Temperature IR Gun #16020459 CF 0.0 °C -1.5 °C N/A

Radiological Testing Instrument serial #35127 Y N N/A
 (see page 2 for scan results)

****Use 1 sheet per sample for Radiological Testing. If sample is HOT, the Radiological Safety Officer must be notified immediately.**

C-O-C filled out properly Y N N/A

Samples in separate bags Y N N/A

Sample containers intact* Y N N/A

*If no, list broken sample(s): _____

Sample label(s) complete (ID, date, etc.) Y N N/A

Label(s) agree with C-O-C Y N N/A

Correct containers used Y N N/A

Sufficient sample received Y N N/A

Bubbles absent from 40 mL vials** Y N N/A

** Samples with bubbles <6mm are acceptable. Indicate bubble size if >6mm. _____

Was client contacted about samples Y N

Will client send new samples Y N

Client contact: _____

Date/Time: _____

Logged in by: _____

Comments: _____