



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.

Stevenson, AL 35772

Report Summary

Thursday January 29, 2009

Report Number: L385286

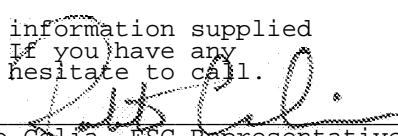
Samples Received: 01/27/09

Client Project: TVAWCF GYPSUM SPILL

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Roberto Celis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.

1 Samples Reported: 01/29/09 16:32 Printed: 01/29/09 16:32

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REPORT OF ANALYSIS

Mr. Stanley Bramlett
TVA-Widows Creek Fossil Plant
2800 Steamplant Rd.
Stevenson, AL 35772

January 29, 2009

Date Received : 01/27/09 15:40
Description :
Sample ID : TNSL-SW-174-20090127
Collected By : Michael Gamble
Collection Date : 01/27/09 10:26

ESC Sample # : L385286-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Antimony, Dissolved	BDL	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Beryllium, Dissolved	BDL	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Cadmium, Dissolved	BDL	0.00050	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Chromium, Dissolved	BDL	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Cobalt, Dissolved	BDL	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Copper, Dissolved	0.0014	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Lead, Dissolved	BDL	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Nickel, Dissolved	0.0011	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Selenium, Dissolved	0.0012	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Silver, Dissolved	0.00068	0.00050	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Thallium, Dissolved	BDL	0.0010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Zinc, Dissolved	BDL	0.010	mg/l	200.8	01/28/09 1537	01/29/09 0651	LAT	
Mercury, Dissolved	BDL	0.00020	mg/l	245.1	01/28/09 0819	429 01/29/09 0932	ARF	
Aluminum, Dissolved	0.14	0.10	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Barium, Dissolved	0.026	0.0050	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Calcium, Dissolved	26.	0.50	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Iron, Dissolved	0.13	0.10	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Magnesium, Dissolved	4.9	0.10	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Manganese, Dissolved	0.022	0.010	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Potassium, Dissolved	1.7	0.50	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Sodium, Dissolved	6.2	0.50	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	
Vanadium, Dissolved	BDL	0.010	mg/l	200.7	01/28/09 1619	117 01/29/09 1145	LAT	

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

Notes:

The reported analytical results relate only to the sample submitted
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L385286-01	WG404655	SAMP	Copper,Dissolved	R609805	P1
	WG404655	SAMP	Selenium,Dissolved	R609805	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
01/29/09 at 16:32:49

TSR Signing Reports: 400
R2 - Rush: Next Day

Must have cooler receipt form-LC

Sample: L385286-01 Account: TVAWCF Received: 01/27/09 15:40 Due Date: 01/29/09 00:00 RPT Date: 01/29/09 16:32