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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

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

Stevenson, AL 35772

Report Summary

Wednesday January 28, 2009

Report Number: L385071

Samples Received: 01/24/09

Client Project: TVAWCF GYPSUM SPILL

Description: TVAWCF GYPSUM POND SPILL

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.



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REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-146-20090124
Collected By : RW/MG
Collection Date : 01/24/09 08:57

ESC Sample # : L385071-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.58	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1536	RBS
Sulfate	9.2	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1536	RBS
Alkalinity	82.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1715	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1606	LEM
pH	7.6		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.55	0.10	mg/l	353.2	01/26/09 1302	165	01/26/09 1302	LEM
Oil & Grease (Hexane Extr)	BDL	5.0	mg/l	1664A	01/26/09 0428	78	01/26/09 0913	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0136	LEM
Kjeldahl Nitrogen, TKN	0.37	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0852	DTH
TOC (Total Organic Carbon)	BDL	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2042	ADH
Dissolved Solids	48.	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1714	MF
Suspended Solids	1.9	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Arsenic	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Copper	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Nickel	0.0022	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0201	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1602	KBW

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

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L385071-01 (PH) - 7.6@11.8C



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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-146-20090124
Collected By : RW/MG
Collection Date : 01/24/09 08:57

ESC Sample # : L385071-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.15	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Barium	0.022	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Calcium	34.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Iron	0.28	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Magnesium	4.8	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Manganese	0.048	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Potassium	0.69	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Sodium	1.3	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1510	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-147-20090124
Collected By : RW/MG
Collection Date : 01/24/09 10:38

ESC Sample # : L385071-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.52	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1625	RBS
Sulfate	22.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1625	RBS
Alkalinity	86.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1715	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1607	LEM
pH	7.8		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.47	0.10	mg/l	353.2	01/26/09 1303	165	01/26/09 1303	LEM
Oil & Grease (Hexane Extr)	BDL	5.3	mg/l	1664A	01/26/09 0428	78	01/26/09 0915	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0137	LEM
Kjeldahl Nitrogen, TKN	0.38	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0854	DTH
TOC (Total Organic Carbon)	BDL	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2123	ADH
Dissolved Solids	130	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1713	MF
Suspended Solids	5.6	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Arsenic	0.0014	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Chromium	0.0018	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Copper	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Nickel	0.0029	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0204	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1604	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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Stevenson, AL 35772

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-147-20090124
Collected By : RW/MG
Collection Date : 01/24/09 10:38

ESC Sample # : L385071-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.26	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Barium	0.024	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Calcium	41.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Iron	0.38	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Magnesium	5.2	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Manganese	0.083	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Potassium	0.70	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Sodium	1.3	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1514	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-148-20090124
Collected By : RW/MG
Collection Date : 01/24/09 10:12

ESC Sample # : L385071-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.39	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1642	RBS
Sulfate	13.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1642	RBS
Alkalinity	52.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	26.	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1715	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1608	LEM
pH	7.8		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.35	0.10	mg/l	353.2	01/26/09 1305	165	01/26/09 1305	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0914	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0138	LEM
Kjeldahl Nitrogen, TKN	0.49	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0857	DTH
TOC (Total Organic Carbon)	1.8	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2145	ADH
Dissolved Solids	83.	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1714	MF
Suspended Solids	4.1	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Arsenic	0.0013	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Chromium	0.0010	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Copper	0.0012	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Nickel	0.0018	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Zinc	0.013	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0103	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1607	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-148-20090124
Collected By : RW/MG
Collection Date : 01/24/09 10:12

ESC Sample # : L385071-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.30	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Barium	0.024	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Calcium	19.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Iron	0.28	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Magnesium	4.8	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Manganese	0.029	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Potassium	1.6	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Sodium	6.9	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1517	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-149-20090124
Collected By : RW/MG
Collection Date : 01/24/09 09:34

ESC Sample # : L385071-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.40	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1658	RBS
Sulfate	13.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1658	RBS
Alkalinity	52.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1715	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1609	LEM
pH	7.8		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.36	0.10	mg/l	353.2	01/26/09 1306	165	01/26/09 1306	LEM
Oil & Grease (Hexane Extr)	18.	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0915	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0139	LEM
Kjeldahl Nitrogen, TKN	0.44	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0900	DTH
TOC (Total Organic Carbon)	1.7	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2159	ADH
Dissolved Solids	93.	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1714	MF
Suspended Solids	4.3	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Arsenic	0.0011	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Copper	0.0016	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Nickel	0.0016	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1851	428	01/27/09 0207	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1609	KBW

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-149-20090124
Collected By : RW/MG
Collection Date : 01/24/09 09:34

ESC Sample # : L385071-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.32	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Barium	0.035	0.0050	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Calcium	19.	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Iron	0.30	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Magnesium	4.8	0.10	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Manganese	0.040	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Potassium	1.6	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Sodium	7.1	0.50	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	LAT
Vanadium	0.012	0.010	mg/l	200.7	01/25/09 1656	428	01/26/09 1404	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

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REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN-117-SW-150-20090124
Collected By : RW/MG
Collection Date : 01/24/09 08:54

ESC Sample # : L385071-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.45	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1714	RBS
Sulfate	15.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1714	RBS
Alkalinity	54.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NJM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1716	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1610	LEM
pH	7.7		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.38	0.10	mg/l	353.2	01/26/09 1307	165	01/26/09 1307	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0914	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0140	LEM
Kjeldahl Nitrogen, TKN	0.40	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0901	DTH
TOC (Total Organic Carbon)	2.1	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2211	ADH
Dissolved Solids	BDL	10.	mg/l	2540C	01/26/09 0722	36	01/27/09 1714	MF
Suspended Solids	4.1	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Arsenic	0.0011	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Copper	0.0011	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Nickel	0.0017	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Selenium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1852	428	01/27/09 0311	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1527	253	01/27/09 1535	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN-117-SW-150-20090124
Collected By : RW/MG
Collection Date : 01/24/09 08:54

ESC Sample # : L385071-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.22	0.10	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Barium	0.023	0.0050	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Calcium	19.	0.50	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Iron	0.22	0.10	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Magnesium	4.6	0.10	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Manganese	0.030	0.010	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Potassium	1.4	0.50	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Sodium	6.5	0.50	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1657	428	01/26/09 1850	LAT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-152-20090124
Collected By : RW/MG
Collection Date : 01/24/09 09:52

ESC Sample # : L385071-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.46	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1820	RBS
Sulfate	25.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1820	RBS
Alkalinity	66.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NUM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1716	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1613	LEM
pH	7.7		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.42	0.10	mg/l	353.2	01/26/09 1308	165	01/26/09 1308	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0915	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0143	LEM
Kjeldahl Nitrogen, TKN	0.50	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0902	DTH
TOC (Total Organic Carbon)	1.4	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2222	ADH
Dissolved Solids	120	10.	mg/l	2540C	01/26/09 0723	36	01/27/09 1702	MF
Suspended Solids	14.	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Arsenic	0.0030	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Chromium	0.0011	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Copper	0.0011	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Nickel	0.0027	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Selenium	0.0029	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1852	428	01/27/09 0314	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1528	253	01/27/09 1744	KBW

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-152-20090124
Collected By : RW/MG
Collection Date : 01/24/09 09:52

ESC Sample # : L385071-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.53	0.10	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Barium	0.046	0.0050	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Calcium	32.	0.50	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Iron	0.60	0.10	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Magnesium	5.2	0.10	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Manganese	0.086	0.010	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Potassium	1.7	0.50	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Sodium	5.6	0.50	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	LAT
Vanadium	0.016	0.010	mg/l	200.7	01/25/09	1651	428 01/26/09 1937	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
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Notes:

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Reported: 01/27/09 18:16 Revised: 01/28/09 09:20

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REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-151-20090124
Collected By : RW/MG
Collection Date : 01/24/09 09:44

ESC Sample # : L385071-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Nitrate	0.47	0.10	mg/l	300.0	01/26/09 0959	159	01/26/09 1836	RBS
Sulfate	31.	5.0	mg/l	300.0	01/26/09 0959	159	01/26/09 1836	RBS
Alkalinity	66.	20.	mg/l	2320B	01/26/09 0748	236	01/26/09 2100	NJM
COD	BDL	20.	mg/l	410.4	01/26/09 0717	234	01/26/09 1717	LLJ
Ammonia Nitrogen	BDL	0.10	mg/l	350.1	01/26/09 1209	245	01/26/09 1614	LEM
pH	7.8		su	4500H-B	01/27/09 0749	183	01/27/09 1015	TWF
Nitrate-Nitrite	0.42	0.10	mg/l	353.2	01/26/09 1310	165	01/26/09 1310	LEM
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	01/26/09 0428	78	01/26/09 0916	TLB
Phosphorus, Total	BDL	0.10	mg/l	365.1	01/26/09 1040	245	01/27/09 0145	LEM
Kjeldahl Nitrogen, TKN	0.50	0.10	mg/l	351.2	01/26/09 1423	245	01/27/09 0903	DTH
TOC (Total Organic Carbon)	1.5	1.0	mg/l	5310B	01/26/09 1319	162	01/26/09 2233	ADH
Dissolved Solids	BDL	10.	mg/l	2540C	01/26/09 0723	36	01/27/09 1702	MF
Suspended Solids	12.	1.0	mg/l	2540D	01/26/09 0719	36	01/26/09 1308	MF
Antimony	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Arsenic	0.0024	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Cadmium	BDL	0.00050	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Beryllium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Chromium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Cobalt	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Copper	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Lead	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Nickel	0.0023	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Selenium	0.0016	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Silver	BDL	0.00050	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Thallium	BDL	0.0010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Zinc	BDL	0.010	mg/l	200.8	01/25/09 1852	428	01/27/09 0318	LAT
Mercury	BDL	0.00020	mg/l	245.1	01/25/09 1528	253	01/27/09 1726	KBW

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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L385071-07 (PH) - 7.8@14.7C



**ENVIRONMENTAL
SCIENCE CORP.**

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

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Est. 1970

REPORT OF ANALYSIS

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

January 28, 2009

Date Received : 01/24/09 15:30
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-151-20090124
Collected By : RW/MG
Collection Date : 01/24/09 09:44

ESC Sample # : L385071-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Aluminum	0.46	0.10	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Barium	0.032	0.0050	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Calcium	29.	0.50	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Iron	0.55	0.10	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Magnesium	4.9	0.10	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Manganese	0.070	0.010	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Potassium	1.4	0.50	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Sodium	5.2	0.50	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	LAT
Vanadium	BDL	0.010	mg/l	200.7	01/25/09 1651	428	01/26/09 1940	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
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Notes:

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Reported: 01/27/09 18:16 Revised: 01/28/09 09:20

L385071-07 (PH) - 7.8@14.7C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L385071-01	WG404335	SAMP	pH	R606965	T8
	WG404228	SAMP	Nitrate	R606245	T8, J6
	WG404228	SAMP	Sulfate	R606245	J6
L385071-02	WG404335	SAMP	pH	R606965	T8
L385071-03	WG404335	SAMP	pH	R606965	T8
	WG404172	SAMP	Copper	R606105	P1
L385071-04	WG404189	SAMP	Suspended Solids	R606825	J3, T4
	WG404335	SAMP	pH	R606965	T8
L385071-05	WG404228	SAMP	Nitrate	R606245	T8
	WG404157	SAMP	Mercury	R607485	J3
	WG404335	SAMP	pH	R606965	T8
L385071-06	WG404228	SAMP	Nitrate	R606245	T8
	WG404335	SAMP	pH	R606965	T8
L385071-07	WG404335	SAMP	pH	R606965	T8
	WG404228	SAMP	Nitrate	R606245	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
T4	(ESC) - Additional method/sample information: QNS - Quantity Not Sufficient
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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
01/28/09 at 09:20:35

TSR Signing Reports: 400
RX - Priority Rush

Must have cooler receipt form-LC

Sample: L385071-01 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16
Sample: L385071-02 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16
Sample: L385071-03 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16
Sample: L385071-04 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16
Sample: L385071-05 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16
Sample: L385071-06 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16
Sample: L385071-07 Account: TVAWCF Received: 01/24/09 15:30 Due Date: 01/27/09 00:00 RPT Date: 01/27/09 18:16