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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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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 February 25, 2009

Report Number: L388736

Samples Received: 02/18/09

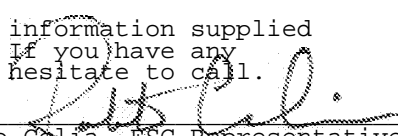
Client Project: TVAWCF GYPSUM SPILL

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:

Laboratory Certification Numbers


Roberto Celis, ESC Representative

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-287-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 08:39

ESC Sample # : L388736-01

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|-------------------|-----|
| Nitrate | 0.37 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 1855 | RBS |
| Sulfate | 9.8 | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 1855 | RBS |
| Alkalinity | 90. | 20. | mg/l | 2320B | 02/19/09 | 1623 | 234 02/20/09 1500 | LLJ |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 1501 | BSD |
| Ammonia Nitrogen | BDL | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 1516 | LEM |
| pH | 8.0 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 1304 | BKM |
| Nitrate-Nitrite | 0.24 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 0909 | NJM |
| Oil & Grease (Hexane Extr) | BDL | 5.0 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 0902 | TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 1000 | LEM |
| Kjeldahl Nitrogen, TKN | 0.32 | 0.10 | mg/l | 351.2 | 02/19/09 | 1407 | 234 02/20/09 1331 | DTH |
| TOC (Total Organic Carbon) | 1.7 | 1.0 | mg/l | 5310B | 02/19/09 | 1519 | 162 02/23/09 1949 | ADH |
| Dissolved Solids | 120 | 10. | mg/l | 2540C | 02/19/09 | 1550 | 36 02/23/09 1414 | MF |
| Suspended Solids | 2.2 | 1.0 | mg/l | 2540D | 02/20/09 | 1610 | 193 02/21/09 0740 | AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Arsenic | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Chromium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Copper | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Nickel | 0.0014 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Selenium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Zinc | BDL | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0133 | LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/18/09 | 1841 | 261 02/19/09 2115 | CLF |

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:

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L388736-01 (PH) - 8.0@18.6c



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REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : CRB-SW-287-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 08:39

ESC Sample # : L388736-01

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 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Barium | 0.020 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Calcium | 32. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Iron | 0.29 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Magnesium | 4.4 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Manganese | 0.040 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Potassium | 0.87 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Sodium | 1.4 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1610 | DMM |

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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Reported: 02/25/09 17:04 Printed: 02/25/09 18:00

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REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-288-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:21

ESC Sample # : L388736-02

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|-------------------|-----|
| Nitrate | 0.27 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 1928 | RBS |
| Sulfate | 18. | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 1928 | RBS |
| Alkalinity | 90. | 20. | mg/l | 2320B | 02/19/09 | 1623 | 234 02/20/09 1500 | LLJ |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 1501 | BSD |
| Ammonia Nitrogen | BDL | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 1518 | LEM |
| pH | 8.0 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 1304 | BKM |
| Nitrate-Nitrite | 0.18 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 0910 | NJM |
| Oil & Grease (Hexane Extr) | BDL | 5.0 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 0901 | TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 1003 | LEM |
| Kjeldahl Nitrogen, TKN | 0.30 | 0.10 | mg/l | 351.2 | 02/19/09 | 1407 | 234 02/20/09 1332 | DTH |
| TOC (Total Organic Carbon) | 1.5 | 1.0 | mg/l | 5310B | 02/23/09 | 0900 | 162 02/24/09 1635 | ADH |
| Dissolved Solids | 130 | 10. | mg/l | 2540C | 02/19/09 | 1550 | 36 02/23/09 1415 | MF |
| Suspended Solids | 3.3 | 1.0 | mg/l | 2540D | 02/20/09 | 1611 | 193 02/21/09 1040 | AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Arsenic | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Chromium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Copper | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Nickel | 0.0015 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Selenium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Zinc | BDL | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0136 | LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/18/09 | 1841 | 261 02/19/09 2117 | CLF |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : MDB-SW-288-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:21

ESC Sample # : L388736-02

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 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Barium | 0.021 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Calcium | 36. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Iron | 0.30 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Magnesium | 5.2 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Manganese | 0.052 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Potassium | 0.85 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Sodium | 1.4 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1613 | DMM |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

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2800 Steamplant Rd.
Stevenson, AL 35772

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-289-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 10:02

ESC Sample # : L388736-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|--------------|----------|
| Nitrate | 0.25 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 | 2017 RBS |
| Sulfate | 19. | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 | 2017 RBS |
| Alkalinity | 70. | 20. | mg/l | 2320B | 02/19/09 | 1623 | 234 02/20/09 | 1500 LLJ |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 | 1501 BSD |
| Ammonia Nitrogen | BDL | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 | 1519 LEM |
| pH | 8.3 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 | 1304 BKM |
| Nitrate-Nitrite | 0.15 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 | 0911 NJM |
| Oil & Grease (Hexane Extr) | BDL | 5.6 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 | 0858 TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 | 1006 LEM |
| Kjeldahl Nitrogen, TKN | 0.50 | 0.10 | mg/l | 351.2 | 02/19/09 | 1407 | 234 02/20/09 | 1333 DTH |
| TOC (Total Organic Carbon) | 2.3 | 1.0 | mg/l | 5310B | 02/23/09 | 0900 | 162 02/24/09 | 1658 ADH |
| Dissolved Solids | 110 | 10. | mg/l | 2540C | 02/20/09 | 0929 | 36 02/23/09 | 1404 MF |
| Suspended Solids | 8.8 | 1.0 | mg/l | 2540D | 02/20/09 | 1612 | 193 02/21/09 | 1037 AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Arsenic | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Chromium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Copper | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Nickel | 0.0014 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Selenium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Zinc | 0.011 | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0139 LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/18/09 | 1841 | 261 02/19/09 | 2120 CLF |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Laboratory Certification Numbers:

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L388736-03 (PH) - 8.3@18.4c



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2800 Steamplant Rd.
Stevenson, AL 35772

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNUP-SW-289-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 10:02

ESC Sample # : L388736-03

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|-----------|--------|------------|-------|--------|---------------|-----|---------------|-----|
| Aluminum | 0.33 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Barium | 0.026 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Calcium | 23. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Iron | 0.22 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Magnesium | 6.2 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Manganese | 0.038 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Potassium | 1.8 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Sodium | 8.5 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1616 | DMM |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L388736-03 (PH) - 8.3@18.4c



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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-290-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:23

ESC Sample # : L388736-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|-------------------|-----|
| Nitrate | 0.25 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 2034 | RBS |
| Sulfate | 19. | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 2034 | RBS |
| Alkalinity | 70. | 20. | mg/l | 2320B | 02/19/09 | 1623 | 234 02/20/09 1500 | LLJ |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 1502 | BSD |
| Ammonia Nitrogen | BDL | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 1520 | LEM |
| pH | 8.3 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 1304 | BKM |
| Nitrate-Nitrite | 0.18 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 0912 | NJM |
| Oil & Grease (Hexane Extr) | BDL | 5.6 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 0857 | TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 1007 | LEM |
| Kjeldahl Nitrogen, TKN | 0.50 | 0.10 | mg/l | 351.2 | 02/20/09 | 0954 | 234 02/24/09 1935 | DTH |
| TOC (Total Organic Carbon) | 1.9 | 1.0 | mg/l | 5310B | 02/23/09 | 0900 | 162 02/24/09 1716 | ADH |
| Dissolved Solids | 120 | 10. | mg/l | 2540C | 02/19/09 | 1550 | 36 02/23/09 1416 | MF |
| Suspended Solids | 9.0 | 1.0 | mg/l | 2540D | 02/20/09 | 1611 | 193 02/21/09 1040 | AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Arsenic | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Chromium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Copper | 0.0015 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Nickel | 0.0013 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Selenium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Zinc | BDL | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0142 | LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/18/09 | 1841 | 261 02/19/09 2122 | CLF |

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:

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Est. 1970

REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNDN-SW-290-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:23

ESC Sample # : L388736-04

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|-----------|--------|------------|-------|--------|---------------|-----|---------------|-----|
| Aluminum | 0.38 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Barium | 0.026 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Calcium | 23. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Iron | 0.23 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Magnesium | 6.2 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Manganese | 0.036 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Potassium | 1.8 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Sodium | 8.1 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1620 | DMM |

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:

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Est. 1970

REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN 117-SW-291-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 08:59

ESC Sample # : L388736-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|-------------------|-----|
| Nitrate | 0.23 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 2050 | RBS |
| Sulfate | 21. | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 2050 | RBS |
| Alkalinity | 70. | 20. | mg/l | 2320B | 02/19/09 | 1623 | 234 02/20/09 1500 | LLJ |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 1502 | BSD |
| Ammonia Nitrogen | BDL | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 1521 | LEM |
| pH | 8.4 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 1304 | BKM |
| Nitrate-Nitrite | 0.16 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 0913 | NJM |
| Oil & Grease (Hexane Extr) | BDL | 5.9 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 0858 | TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 1008 | LEM |
| Kjeldahl Nitrogen, TKN | 0.61 | 0.10 | mg/l | 351.2 | 02/20/09 | 0954 | 234 02/24/09 1936 | DTH |
| TOC (Total Organic Carbon) | 2.5 | 1.0 | mg/l | 5310B | 02/23/09 | 0900 | 162 02/24/09 1727 | ADH |
| Dissolved Solids | 120 | 10. | mg/l | 2540C | 02/19/09 | 1550 | 36 02/23/09 1415 | MF |
| Suspended Solids | 8.2 | 1.0 | mg/l | 2540D | 02/20/09 | 1610 | 193 02/21/09 0740 | AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Arsenic | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Chromium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Copper | 0.0011 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Nickel | 0.0013 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Selenium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Zinc | BDL | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0146 | LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/18/09 | 1841 | 261 02/19/09 2125 | CLF |

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TN 117-SW-291-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 08:59

ESC Sample # : L388736-05

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|-----------|--------|------------|-------|--------|---------------|-----|---------------|-----|
| Aluminum | 0.33 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Barium | 0.027 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Calcium | 22. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Iron | 0.20 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Magnesium | 6.2 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Manganese | 0.039 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Potassium | 1.9 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Sodium | 9.7 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1623 | DMM |

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
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AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

Notes:

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REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-292-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:41

ESC Sample # : L388736-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|-------------------|-----|
| Nitrate | 0.25 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 2107 | RBS |
| Sulfate | 29. | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 2107 | RBS |
| Alkalinity | 70. | 20. | mg/l | 2320B | 02/19/09 | 1623 | 234 02/20/09 1500 | LLJ |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 1502 | BSD |
| Ammonia Nitrogen | BDL | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 1523 | LEM |
| pH | 8.2 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 1304 | BKM |
| Nitrate-Nitrite | 0.16 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 0915 | NJM |
| Oil & Grease (Hexane Extr) | BDL | 5.6 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 0857 | TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 1009 | LEM |
| Kjeldahl Nitrogen, TKN | 0.48 | 0.10 | mg/l | 351.2 | 02/20/09 | 0954 | 234 02/24/09 1937 | DTH |
| TOC (Total Organic Carbon) | 2.2 | 1.0 | mg/l | 5310B | 02/23/09 | 0900 | 162 02/24/09 1738 | ADH |
| Dissolved Solids | 150 | 10. | mg/l | 2540C | 02/19/09 | 1550 | 36 02/23/09 1418 | MF |
| Suspended Solids | 29. | 1.0 | mg/l | 2540D | 02/20/09 | 1611 | 193 02/21/09 1040 | AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Arsenic | 0.0014 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Chromium | 0.0019 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Copper | 0.0027 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Nickel | 0.0023 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Selenium | 0.0018 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Zinc | BDL | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 0149 | LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/18/09 | 1841 | 261 02/19/09 2127 | CLF |

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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REPORT OF ANALYSIS

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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-MD-292-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:41

ESC Sample # : L388736-06

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|-----------|--------|------------|-------|--------|---------------|-----|---------------|-----|
| Aluminum | 1.4 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Barium | 0.038 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Calcium | 26. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Iron | 1.1 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Magnesium | 6.4 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Manganese | 0.066 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Potassium | 2.1 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Sodium | 8.4 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1626 | DMM |

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:

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L388736-06 (PH) - 8.2@18.3c



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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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-293-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:36

ESC Sample # : L388736-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|----------------------------|--------|------------|-------|---------|----------|------|--------------|----------|
| Nitrate | 0.25 | 0.10 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 | 2156 RBS |
| Sulfate | 33. | 5.0 | mg/l | 300.0 | 02/18/09 | 1657 | 245 02/19/09 | 2156 RBS |
| Alkalinity | 68. | 20. | mg/l | 2320B | 02/20/09 | 1531 | 234 02/22/09 | 1200 NJM |
| COD | BDL | 20. | mg/l | 410.4 | 02/20/09 | 1528 | 234 02/22/09 | 1502 BSD |
| Ammonia Nitrogen | 0.39 | 0.10 | mg/l | 350.1 | 02/20/09 | 1557 | 234 02/23/09 | 1524 LEM |
| pH | 8.2 | | su | 4500H-B | 02/18/09 | 1801 | 397 02/19/09 | 1304 BKM |
| Nitrate-Nitrite | 0.21 | 0.10 | mg/l | 353.2 | 02/23/09 | 1454 | 234 02/24/09 | 0945 LEM |
| Oil & Grease (Hexane Extr) | BDL | 5.6 | mg/l | 1664A | 02/23/09 | 0339 | 78 02/23/09 | 0850 TLB |
| Phosphorus, Total | BDL | 0.10 | mg/l | 365.1 | 02/20/09 | 1533 | 234 02/23/09 | 1010 LEM |
| Kjeldahl Nitrogen, TKN | 0.53 | 0.10 | mg/l | 351.2 | 02/20/09 | 0954 | 234 02/24/09 | 1938 DTH |
| TOC (Total Organic Carbon) | 2.1 | 1.0 | mg/l | 5310B | 02/23/09 | 0900 | 162 02/24/09 | 1750 ADH |
| Dissolved Solids | 110 | 10. | mg/l | 2540C | 02/19/09 | 1550 | 36 02/23/09 | 1417 MF |
| Suspended Solids | 33. | 1.0 | mg/l | 2540D | 02/20/09 | 1611 | 193 02/21/09 | 1040 AMS |
| Antimony | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Arsenic | 0.0020 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Cadmium | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Beryllium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Chromium | 0.0026 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Cobalt | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Copper | 0.0015 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Lead | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Nickel | 0.0025 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Selenium | 0.0029 | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Silver | BDL | 0.00050 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Thallium | BDL | 0.0010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Zinc | BDL | 0.010 | mg/l | 200.8 | 02/20/09 | 0819 | 237 02/23/09 | 0152 LAT |
| Mercury | BDL | 0.00020 | mg/l | 245.1 | 02/19/09 | 0809 | 429 02/19/09 | 2245 CLF |

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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L388736-07 (PH) - 8.2@19.6c



**ENVIRONMENTAL
SCIENCE CORP.**

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Mt. Juliet, TN 37122
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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

February 25, 2009

Date Received : 02/18/09 15:40
Description : TVAWCF GYPSUM POND SPILL
Sample ID : TNSL-SW-293-20090218
Collected By : R Wells/M Gamble
Collection Date : 02/18/09 09:36

ESC Sample # : L388736-07

Site ID :

Project # : TVAWCF GYPSUM SPILL

| Parameter | Result | Det. Limit | Units | Method | Prep | PID | Analyzed | AID |
|-----------|--------|------------|-------|--------|---------------|-----|---------------|-----|
| Aluminum | 1.7 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Barium | 0.044 | 0.0050 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Calcium | 30. | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Iron | 1.3 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Magnesium | 6.6 | 0.10 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Manganese | 0.078 | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Potassium | 2.2 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Sodium | 8.4 | 0.50 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |
| Vanadium | BDL | 0.010 | mg/l | 200.7 | 02/21/09 0544 | 388 | 02/22/09 1529 | DMM |

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:

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Reported: 02/25/09 17:04 Printed: 02/25/09 18:00

L388736-07 (PH) - 8.2@19.6c

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|------------------|---------|-----------|
| L388736-01 | WG408114 | SAMP | pH | R640385 | T8 |
| L388736-02 | WG408114 | SAMP | pH | R640385 | T8 |
| L388736-03 | WG408536 | SAMP | Suspended Solids | R644706 | J3 |
| | WG408114 | SAMP | pH | R640385 | T8 |
| L388736-04 | WG408114 | SAMP | pH | R640385 | T8 |
| L388736-05 | WG408795 | SAMP | Nitrate-Nitrite | R646806 | P1 |
| | WG408114 | SAMP | pH | R640385 | T8 |
| L388736-06 | WG408114 | SAMP | pH | R640385 | T8 |
| L388736-07 | WG408114 | SAMP | pH | R640385 | T8 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J3 | The associated batch QC was outside the established quality control range for precision. |
| 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
02/25/09 at 18:00:44

TSR Signing Reports: 400
RX - Priority Rush

Must have cooler receipt form-LC

Sample: L388736-01 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04
Sample: L388736-02 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04
Sample: L388736-03 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04
Sample: L388736-04 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04
Sample: L388736-05 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04
Sample: L388736-06 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04
Sample: L388736-07 Account: TVAWCF Received: 02/18/09 15:40 Due Date: 02/26/09 00:00 RPT Date: 02/25/09 17:04