<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

District III District IV 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

2009 MAY 18 PM ? Rease Notification and Corrective Action

| | | | | ease Motific | | OPERA' | | | ✓ Initia | al Report | ☐ Final | l Report |
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| Name of Co | mpany: El | lm Ridge Ex | ploration | | | Contact: Amy Mackey | | | | | | |
| | | Bloomfield | | | | Telephone No.: (505) 632-3476 Ext 201 | | | | | | |
| Facility Nar | ne: Bisti C | Coal 2 #2 | | | | Facility Type: Gas Well | | | | | | |
| Surface Ow | ner: State | | | Mineral C |)wner | | | | Lease N | lo.: LG 206 | 2 | |
| Surrect O !! | iier. State | | | | | | | | _ Bease : | 10 20 200 | | |
| | | - I | - | | | OF RE | | T 50 - //1 | | | | |
| Unit Letter M | Section 2 | Township 25N | Range 12W | Feet from the 875 | North/ | South Line FSL | Feet from the 975 | 1 | est Line WL | County San Juan | | |
| | | | | Latitude 36.4 | 25347 | Longitu | ıde <u>-108.08656</u> | 50 | | | | |
| | | | | NAT | URE | OF REL | EASE | | | | | |
| Type of Rele | | | | | | | Release: Unknov | | | Recovered: U | | |
| Source of Re | lease: Earth | Pit | | | | Date and H | Iour of Occurrence | e: | Date and | Hour of Disc | overy: NA | |
| Was Immedi | ate Notice (| Given? | | | | If YES, To | Whom? | | | | | |
| | | | Yes [|] No 🛛 Not Re | equired | | | | | | | |
| By Whom? | | | | | | Date and I | | | | | | |
| Was a Water | course Reac | | Yes 🗵 |] No | | If YES, Vo | olume Impacting | the Wate | rcourse. | | | |
| If a Watercon | irse was Im | pacted, Descr | ibe Fully.' | * | | | | | | | | |
| Produced Water from gas well at the mentioned location formerly discharged into an earthen pit on location. The well has been altered to no longer drain into an earthen pit, but instead into an AST. Describe Area Affected and Cleanup Action Taken.* Earthen pit was dry, and has not been discharged into since before June 16, 2008. A sample was collected from the earthen pit and the sample results are attached to this document for reference. The sample was analyzed for in the field for Total Petroleum Hydrocarbons (TPH) via USEPA Method 418.1 and in Envirotech's laboratory for benzene and total BTEX via USEPA Method 8021, and for total chlorides via USEPA Method 4500B. The sample returned results that were below the 0.2 ppm benzene and the 50 ppm BTEX standards, but above the 100 ppm TPH standard and the 250 ppm total chloride standard, confirming that a release had occurred at this site. The site was then ranked pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 10 due to groundwater being greater than 50 feet below ground surface, but less than 100 feet. This set the closure standards to 1000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. There is no closure standard for total chlorides per the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. All analytical results were below the closure standards determined for this site. | | | | | | | | | | | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-14I report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-14I report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | | | | | | | | | | | |
| Signature: | A | | ack | , | | | OIL CON | SERV | ATION | DIVISIO | <u>N</u> | |
| Printed Nam | e: Ms. Amy | Mackey | | χ. | | Approved by | District Supervis | sor: | | | | |
| Title: Admin | istrative Ma | nager | | | | Approval Date: Expiration Date: | | | | | | |
| E-mail Addre | ess: amacke | yl@elmridge | | 05-632-3476 Ext | | Conditions of Approval: | | | | | | |
| | tional She | ets If Necess | | 03-032-34/0 EXL | 201 | | | | | | | |

| DATE STARTED: 10 20 10 8 STOOLUS, ENGRWAY 64 - 30104 FARMINGTON, NEW MERICO 87401 LAT: 12, 425 3, 47 1 DATE FINISHED: 1 2 1 2 8 FIELD REPORT: BGT / PIT CLOSURE VERIFICATION DOCATION: NAME 8551 CAN D WELLE TEMP PIT: PERMANENT PIT: BGT: EGGLA ADD: UNIT: M SEC: 1 700 FCL CNTY: SAN JAN ST: NM SECAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE: SEPOSAL FACILITY: REMEDIATION METICO: AND OWNER: 54-14 API: 30-453-75-72. BGT / PIT VOLUME: DOSTSTUCTION MATERIAL: 6-00 FW DOUBLE-WALLED, WITH LEAK DETECTION: DOCATION APPROXIMATELY: 6-7 FT. OO' FROM WELLHEAD DOTTER TO GROUNDWATER: 50-00 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FT OR GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, CHLORIDES \$ 2500 mg/kg PERMANENT FTO GROUNDWATER 50-100 FEET DEEP BENZENE 50.2 mg/kg, BTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT FTO GROUNDW | | | | | | , | |
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| ENVIRONMENTAL SCRENTISTS & ENGINEERS SYNC US. REGREWAY 66 - 3014 PARMINGTON, NEW MEXICO 87401 FIELD REPORT: BGT / PT CLOSURE VERIFICATION LOCATION: NAME: B/5/1 Cent 2 WELL # 2 TEMP PT: PERMANENT PT: BGT: LOCATION: NAME: B/5/1 Cent 2 WELL # 2 TEMP PT: PERMANENT PT: BGT: LOCATION: NAME: B/5/1 Cent 2 WELL # 2 TEMP PT: PERMANENT PT: BGT: LOCATION PROOTAGE / PAD PULL X / PT CENTY: SAM J-A N ST: N M EXCAVATION APPROX: FT. X - FT. X - FT. DEEP CUBIC YARDAGE: DISPOSAL FACILITY: REMEDIATION METHOD: EXCAVATION MATERIAL: CACH DOUBLE-WALLED, WITH LEAK DETECTION: OCATION APPROXIMATELY: A- FT. CO: PROM WELLHEAD DEPTH TO GROUNDWATER S-100 FRACTION (8015) 5:500 mg/kg. TPH (18.1) 2:500 mg/kg. CHLORIDES 5:500 mg/kg TEMPORARY PTI - GROUNDWATER S-100 FEET DEEP BENZENS S-02 mg/kg. BTEX S-50 mg/kg. GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (18.1) 2:500 mg/kg. CHLORIDES 5:1000 mg/kg PERMANENT PTI OR BGT BENZENS S-02 mg/kg. BTEX S-00 mg/kg. GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (18.1) 2:500 mg/kg. CHLORIDES 5:1000 mg/kg PERMANENT PTI OR BGT BENZENS S-02 mg/kg. BTEX S-00 mg/kg. TPH (18.1) 1:000 mg/kg. CHLORIDES S-250 mg/kg FEELD SIAN ANALYSIS TIME SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID RESULTS SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID RESULTS SAMPLE ID RESULTS SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID RESULTS SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID RESULTS SAMPLE ID LAB NO. WEIGHT (G mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID LAB NO. WEIGHT (G mL FREON DILUTION READING CALC. (mg/kg)) POR RESULTS SAMPLE ID LAB NO. WEIGHT (G ML FREON DILUTION READ | • | | | | | | |
| DATE STARTED: 10/20/68 FARMINGTOR, NEW MERICO 87401 PHONE: (30) 632-0615 EIGH. APPLIANCE: 10/20/68 FIELD REPORT: BGT / PTT CLOSURE VERIFICATION LOCATION: NAME: PUST. COME 2 WELL: 2 TEMP PTT: PERMANENT PTT: BGT: LEGAL ADD: UNIT: M SPC: 2 TWF: 55 N RNG: /3 N PM: MM PM EXCAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE: DISPOSAL FACILITY: REMEDIATION METHOD: START SO MARKE: APT: 30-04/27-75 72 BGT / PTT VOLUME: CONSTRUCTION MATERIAL: CAC++ DOUBLE-WALLED, WITH LEAK DETECTION: COCATION APPROXIMATELY: LEPTH TO GROUNDWATER: SO 1-00 PEET DEEP BENZENE SO 22 mgk, BTEX SO mgkg, GRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) \$ 2500 mgkg, CHLORIDES S 500 mgkg TEMPORARY PIT - GROUNDWATER: SO 1-00 PEET DEEP BENZENE SO 22 mgk, BTEX SO mgkg, GRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) \$ 2500 mgkg, CHLORIDES S 1000 mgkg PERMANENT PIT OR BGT TEMPORARY PIT - GROUNDWATER SO 1-00 PEET DEEP BENZENE SO 22 mgkg, BTEX S 50 mgkg, GRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) \$ 2500 mgkg, CHLORIDES S 1000 mgkg PERMANENT PIT OR BGT THE SAMPLE ID LAB NO. WEIGHT (8 mL FRED) PERL 418.1 S 400 Mgkg, GRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg PERL 418.1 S 400 Mgkg, GRO & DRO & DRO FRACTION (8015) S 500 mgkg, TPH (418.1) S 2500 mgkg, CHLORIDES S 1000 mgkg, CHLORIDES S 1000 mgkg, CHLORIDES S 1000 mgkg, | PAGE NO: OF I | EMVIRONMENT | AL SCIENT | TSTS & ENGI | NEERS | | |
| DATE FINISHED: 1/92/63 PROME (305) 632-0615 DONG -0.E.CBGSGC FIELD REPORT: BGT / PIT CLOSURE VERIFICATION DOCATION: NAME: BJST COLL 2 NELLE: 2 TEMP PIT: PERMANENT PIT: 9GT: LEGAL ADD: UNIT: M SEC: 2 TWP: 35M RNG: /2 W PM: MM PM SEC: 2 TWP: 35M RNG: /2 W PM: MM PM SEC: 2 TWP: 35M RNG: /2 W PM: MM PM SECAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE: DESCAVATION APPROX: State APE: 304/53-75-72 BGT / PIT VOLUME: — ONDSTRUCTION MATERIAL: 6-40-H DOUBLE-WALLED, WITH LEAK DETECTION: DOCATION APPROXIMATELY: 1-4-4 FT. 200 FROM WELLHEAD BEPTH TO GROUNDWATER: SO 100 FROT DEEP BENZENE 502 mg/kg BTEX 50 mg/kg GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (418.1) s 2500 mg/kg. CHLORIDES 5:500 mg/kg TEMPORARY PIT - GROUNDWATER SO 100 FREST DEEP BENZENE 502 mg/kg BTEX 5:50 mg/kg GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (418.1) s 2500 mg/kg. CHLORIDES 5:500 mg/kg FERDALENE 502 mg/kg BTEX 5:50 mg/kg GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (418.1) s 2500 mg/kg. CHLORIDES 5:1000 mg/kg PERMANENT PIT OR BGT BENZENE 5:02 mg/kg BTEX 5:50 mg/kg GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (418.1) s 2500 mg/kg. CHLORIDES 5:1000 mg/kg PERMANENT PIT OR BGT BENZENE 5:02 mg/kg BTEX 5:50 mg/kg GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (418.1) s 2500 mg/kg. CHLORIDES 5:1000 mg/kg PERMANENT PIT OR BGT BENZENE 5:02 mg/kg BTEX 5:50 mg/kg GRO & DRO FRACTION (8015) 5:500 mg/kg. TPH (418.1) s 2500 mg/kg. CHLORIDES 5:1000 mg/kg PERMANENT PIT OR BGT SAMPLE ID. LAB NO. NEIGHT (g ml. FEEON DILUTION BEADING) A | DATE STARTED: 10/20/20 | | | | 11 | | |
| FIELD REPORT: BGT / PIT CLOSURE VERIFICATION DOCATION: NAME: Rest. Can 2 WELL B. 2 TEMP PIT: PERMANENT PIT: BGT: LEGAL ADD. UNIT: M SEC: 1 TWP. 35 M RNG: /2 W PM: AMA PM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DIRFOOTAGE: 1/26 Fev. x / 700 Fel. CNTY: CAN JULY ST. MM DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. X FT. DEEP CUBIC YARDAGE: DEPOSAL FACILITY: AND OWNER: 545 T. X FT. X FT. YARDAGE: DEPOSAL | | | - | | ,1 | | |
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| EEGAL ADD: UNIT: M SEC. TWP: 35 M RNG: 12 M PM: AMA PM | | | | | | | PGT: |
| STREAD TAGE: 1700 For 1 1700 FET. CNTY: SAN JAN ST: NM ST. X FT. X FT. X FT. DEEP CUBIC YARDAGE: DISPOSAL FACILITY: AND OWNER: Shalt API: 3004537572 BOT /PIT VOLUME: ONSTRUCTION MATERIAL: FACTH DOUBLE-WALLED, WITH LEAK DETECTION: OCATION APPROXIMATERIX: FOR SAT H DOUBLE-WALLED, WITH LEAK DETECTION: OCATION APPROXIMATERIX: FOR SAT H COURSE STORE SO 100 FEET DEEP BENZENE SO 1 mg/kg. BTEX SO mg/kg. CHO FEET DEEP BENZENE SO 1 mg/kg. BTEX SO mg/kg. CHO FEET DEEP BENZENE SO 2 mg/kg. BTEX SO mg/kg. ORO & DRO FRACTION (8015) \$ 500 mg/kg. TPH (418.1) \$ 2500 mg/kg. CHLORIDES \$ 500 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. ORO & DRO FRACTION (8015) \$ 500 mg/kg. TPH (418.1) \$ 2500 mg/kg. CHLORIDES \$ 1000 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. TPH (418.1) \$ 100 mg/kg. CHLORIDES \$ 250 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. TPH (418.1) \$ 100 mg/kg. CHLORIDES \$ 250 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. TPH (418.1) \$ 100 mg/kg. CHLORIDES \$ 2500 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. TPH (418.1) \$ 100 mg/kg. CHLORIDES \$ 250 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. TPH (418.1) \$ 100 mg/kg. CHLORIDES \$ 250 mg/kg TEMPORARY PIT - GROUNDWATER ≥ 100 FEET DEEP BENZENE SO 2 mg/kg. BTEX \$ 500 mg/kg. CHLORIDES \$ 100 mg/kg. CHLORIDES \$ 1 | | | | | | | |
| DISPOSAL FACILITY: AND OWNER: State API: 30-457-5757. BRT PIT VOLUME: CONSTRUCTION MATERIAL: CAC+++ DOUBLE-WALLED, WITH LEAK DETECTION: COCATION APPROXIMATELY: 70-7 FT. 700 FROM WELLHEAD DEPTH TO GROUNDWATER: SC \$1 TEMPORARY PIT - GROUNDWATER \$0-100 FRET DEEP BENZENE 9.2 mg/kg. BTEX \$0 mg/kg. GRO & DRO FRACTION (8015) \$500 mg/kg. TPH (418.1) \$2500 mg/kg. CHLORIDES \$500 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE 9.0.2 mg/kg. BTEX \$50 mg/kg. GRO & DRO FRACTION (8015) \$500 mg/kg. TPH (418.1) \$2500 mg/kg. CHLORIDES \$1000 mg/kg PERMANENT PIT OR BGT BENZENE 9.0 mg/kg. BTEX \$50 mg/kg. TPH (418.1) \$100 mg/kg. CHLORIDES \$250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING) CALC. (mg/kg) 200 \$100 7150 PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE ID RESULTS PID RESULTS SAMPLE ID RESULTS | | The state of the s | | | · · · · · · · · · · · · · · · · · · · | | |
| DISPOSAL FACILITY: REMEDIATION METHOD: LAND OWNER: State API: 304575757 BBT /PIT VOLUME: CONSTRUCTION MATERIAL: CAC+H DOUBLE-WALLED, WITH LEAK DETECTION: DISPOSAL FACILITY: 10 FT. 100 FROM WELLHEAD DEPTH TO GROUNDWATER: SO SC \$+ TEMPORARY PIT -GROUNDWATER \$0.100 FEET DEEP BENZENE \$0.2 mg/kg, BTEX \$50 mg/kg, GRO & DRO FRACTION (8015) \$500 mg/kg, TPH (418.1) \$2500 mg/kg, CHLORIDES \$500 mg/kg TEMPORARY PIT -GROUNDWATER >00 FEET DEEP BENZENE \$0.2 mg/kg, BTEX \$50 mg/kg, GRO & DRO FRACTION (8015) \$500 mg/kg, TPH (418.1) \$2500 mg/kg, CHLORIDES \$1000 mg/kg PERMANENT PIT OR BGT BENZENE \$0.2 mg/kg, BTEX \$50 mg/kg, TPH (418.1) \$100 mg/kg, CHLORIDES \$250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE ID LAB NO, WEIGHT (g mL FREON DILUTION READIND CALC. (mg/kg)) 200 \$510 200 \$510 200 \$510 200 \$510 200 \$510 PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE ID MALYSIS RESULTS SAMPLE ID RESULTS SAMPLE ID MALYSIS RESULTS BIEX GRO & DRO CHLORIDES NMCC D RANKING IC CLOSURE ICCO PPM MMCC D RANKING IC CLOSURE ICCO PPM RANKING GRO & DRO CHLORIDES NMCC D RANKING IC CLOSURE ICCO PPM MMCC D RANKING IC CLOSURE ICCO PPM GRO & DRO CHLORIDES | EYCAVATION ADDROY. | FT V | ET V | | ET DEED | CIRIC V | APDAGE: |
| AND OWNER: State APE 3004537573 BGT / PIT VOLUME: ONSTRUCTION MATERIAL EACTH DOUBLE WALLED, WITH LEAK DETECTION: | | 11. 7. | | TION METHO | | CODIC 17 | MDAGE. |
| DONSTRUCTION MATERIAL: EACH DOUBLE-WALLED, WITH LEAK DETECTION: OCATION APPROXIMATELY: /c/ FT. /o° FROM WELLHEAD DEPTH TO GROUNDWATER: SO PT. /o° FROM WELLHEAD DEPTH TO GROUNDWATER SO 100 FEET DEEP BENZENE SO 20 mg/kg, BTEX S 50 mg/kg, GOR & DOF FRACTION (8015) S 500 mg/kg, TPH (418.1) S 2500 mg/kg, CHLORIDES S 500 mg/kg TEMPORARY PIT - GROUNDWATER SO 100 FEET DEEP BENZENE S 0.2 mg/kg, BTEX S 50 mg/kg, GRO & DRO FRACTION (8015) S 500 mg/kg, TPH (418.1) S 2500 mg/kg, CHLORIDES S 1000 mg/kg PERMANENT PIT OR BGT BENZENE S 0.2 mg/kg, BTEX S 50 mg/kg, TPH (418.1) S 1000 mg/kg, CHLORIDES S 2500 mg/kg, CHLORIDES S 1000 mg/kg PERMANENT PIT OR BGT BENZENE S 0.2 mg/kg, BTEX S 50 mg/kg, TPH (418.1) S 1000 mg/kg, CHLORIDES S 2500 mg/kg, CHLORIDES S 1000 mg/kg PERMANENT PIT OR BGT BENZENE S 0.2 mg/kg, BTEX S 500 mg/kg, TPH (418.1) S 1000 mg/kg PERMANENT PIT OR BGT BENZENE FIELD LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg) 9 50 SFC.Mg 1 5 20 4 2 2 1 1 5 20 4 2 2 1 1 1 5 20 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | e API: 30 | A CONTRACTOR OF THE PARTY OF TH | The second secon | - | VOLUME: | |
| DEPTH TO GROUNDWATER: TEMPORARY PIT - GROUNDWATER SO-100 FEET DEEP BENZENE S 0.2 mg/kg, BTEX \$ 50 mg/kg, GRO & DRO FRACTION (8015) \$ 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 500 mg/kg TEMPORARY PIT - GROUNDWATER \$ 100 FEET DEEP BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, GRO & DRO FRACTION (8015) \$ 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT PIT OR BGT BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, TPH (418.1) \$ 100 mg/kg, CHLORIDES \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE ID LAB NO. WEIGHT (g mL PREON DILUTION READING CALC. (mg/kg) 9 50 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | The second secon | |
| DEPTH TO GROUNDWATER: TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP BENZENE'S 0.2 mg/kg, DTEX 50 mg/kg, GRO & DRO FRACTION (8015) 5 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES 5 500 mg/kg TEMPORARY PIT - GROUNDWATER \$ 100 FEET DEEP BENZENE'S 0.2 mg/kg, DTEX 5 50 mg/kg, GRO & DRO FRACTION (8015) \$ 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT PIT OR BGT BENZENE'S 0.2 mg/kg, BTEX \$ 50 mg/kg, TPH (418.1) \$ 100 mg/kg, CHLORIDES \$ 250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE ID. LAB NO, WEIGHT (g) mL FREON DILUTION READING CALC. (mg/kg) 200 STD 3 3 4 4 1 1 5 200 TO 172 9 50 STGC-Mg 1 5 5 20 TO 174 TO FEED PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE D RESULTS SAMPLE D RESULTS PID RESULTS SAMPLE D RESULTS FIELD CHLORIDES RESULTS PID RESULTS SAMPLE D RESULTS SAMPLE D RESULTS FIELD ANALYSIS RESULTS BENZENE BIEN GRO & DRO CHLORIDES NMOC D RANKING 10 COCO PPM GRO & DRO CHLORIDES | OCATION APPROXIMATELY: | /64 FT. / | 00° | FROM WELI | HEAD | | |
| BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, GRO & DRO FRACTION (8015) \$ 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 500 mg/kg TEMPORARY PIT - GROUNDWATER 2100 FEET DEEP BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, GRO & DRO FRACTION (8015) \$ 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANIENT PIT OR BGT BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, TPH (418.1) \$ 100 mg/kg, CHLORIDES \$ 250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg) 200 STD 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | Constitution of the Consti | | ' | | | | |
| TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE S 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg PERMANENT PIT OR BGT BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg) 200 STD 200 STD 2 3 4 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | | 31 (0015) | | 440.4 | , , , OTH | ODIDUG . soo |
| BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, GRO & DRO FRACTION (8015) \$ 500 mg/kg, TPH (418.1) \$ 2500 mg/kg, CHLORIDES \$ 1000 mg/kg PERMANENT PIT OR BGT BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, TPH (418.1) \$ 100 mg/kg, CHLORIDES \$ 250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE I.D. LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg) 200 STD 3 4 4 5 6 6 PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE SAMPLE CALC. (mg/kg) PID RESULTS SAMPLE D (mg/kg) FIELD CHLORIDES RESULTS PID RESULTS SAMPLE D (mg/kg) SOFT G-Mg O C CALC. (mg/kg) FOR A MALYSIS RESULTS BENZENE BENZENE BENZENE BITEX GRO & DRO CHLORIDES NMOC D RANKING C COC PPM RESULTS RESULTS RANKING C COC PPM RESULTS RANKING C COC PPM RESULTS RESULT | BENZENE $\leq 0.2 \text{ mg/kg}$, BTEX $\leq 50 \text{ mg/kg}$ | g, GRO & DRO FRACTIO | $0N(8015) \le 50$ | 00 mg/kg, TPH (| 418.1) ≤ 2500 | mg/kg, CHL | ORIDES ≤ 500 mg/kg |
| PERMANENT PIT OR BGT BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, TPH (418.1) \$ 100 mg/kg, CHLORIDES \$ 250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE I.D. LAB NO. WEIGHT (g) mt FREON DILUTION READING CALC. (mg/kg) 200 STD 7 50 577 CM 1 5 20 4 9729 116 pg.m. PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE READING (mg/kg) PID RESULTS SAMPLE D (mg/kg) FIELD CHLORIDES RESULTS PROFILE LAB SAMPLES SAMPLE D (mg/kg) SAMPLE D (mg/kg) FIELD CHLORIDES RESULTS PROFILE NMOC D Ranking 10 10 50 00 00 00 00 00 00 00 00 00 00 00 00 | | | · | | | | |
| BENZENE \$ 0.2 mg/kg, BTEX \$ 50 mg/kg, TPH (418.1) \$ 100 mg/kg, CHLORIDES \$ 250 mg/kg FIELD 418.1 ANALYSIS TIME SAMPLE LD. LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg) 72 9:50 50 Co. 1 5 00 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | BENZENE $\leq 0.2 \text{ mg/kg}$, BTEX $\leq 50 \text{ mg/kg}$ | g, GRO & DRO FRACTIO | $N(8015) \le 50$ | 0 mg/kg, TPH (4 | 118.1) ≤ 2500 | mg/kg, CHL(| ORIDES ≤ 1000 mg/kg |
| FIELD 418.1 ANALYSIS TIME SAMPLE ID LAB NO. WEIGHT (g mL FREON DILUTION READING) 200 STD 72 9:50 SPYCAMP 1 5 20 4 4 | | | | | | | |
| TIME SAMPLE ID, LAB NO. WEIGHT (g mL FREON DILUTION READING CALC. (mg/kg) 200 STD 9:50 SPTCAMP 1 5 20 4 2+29 116 pcm 2 1 5 20 4 2+29 116 pcm 3 3 1 16 pcm 1 5 5 6 PROFILE PERIMETER PIELD CHLORIDES RESULTS PID RESULTS SAMPLE READING (mg/kg) PID RESULTS SAMPLE ID (mg/kg) SAMPLE ID (mg/kg) FIELD CHLORIDES SAMPLE ID (mg/kg) SAMPLE ID (mg/kg) FIELD CHLORIDES SAMPLE ID (mg/kg) FIELD CHLORIDES SAMPLE ID (mg/kg) FIELD CHLORIDES NOTES: SAMPLE ID | BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg | g, TPH (418.1) ≤ 100 mg/k | g, CHLORID | $ES \le 250 \text{ mg/kg}$ | | | |
| PERIMETER PERIMETER PERIMETER PERIMETER PERIMETER PERIMETER PERIMETER PROFILE SAMPLE READING CALC. (mg/kg) PID RESULTS SAMPLE ID (mg/kg) | Section 1999 | | | | | | |
| PERIMETER FIELD CHLORIDES RESULTS PERIMETER FIELD CHLORIDES RESULTS PID READING CALC. (mg/kg) PID RESULTS SAMPLE ID RESULTS SAMPLE ID RESULTS SAMPLE ID RESULTS SAMPLE ID ANALYSIS RESULTS BENZENE BENZENE BENZENE GRO & DRO CHLORIDES NMOC D Ranking 10 : Closure 1000 ppm | TIME | | WEIGHT (g | mL FREON | DILUTION | | CALC. (mg/kg) |
| PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE READING CALC. (mg/kg) PID RESULTS SAMPLE D RESULTS SAMPLE D RESULTS (mg/kg) SOUTH COMMAND OF RANKING OF LOCO PPM GRO & DRO CHLORIDES NOTES: NMOC D RANKING O' LICSUR 1000 PPM | 9:50 | | 5 | <u>→</u> | 4 | | 116 ppm |
| PERIMETER FIELD CHLORIDES RESULTS SAMPLE READING CALC. (mg/kg) PID RESULTS SAMPLE ID RESULTS BENZENE BENZENE BEIEX GRO & DRO CHLORIDES NMOC D Ranking 10': Closure 1000 ppm MOC D Ranking 10': Closure 1000 ppm | | the second secon | | | | | |
| PERIMETER FIELD CHLORIDES RESULTS PROFILE SAMPLE READING CALC. (mg/kg) PID RESULTS SAMPLE ID RESULTS SAMPLE ID RESULTS (mg/kg) SAMPLE ID RESULTS BENZENS BENZENS BEIEX GRO & DRO CHLORIDES NMOC D RANKING 10 : LICSURE 1000 ppm | | the second secon | | | | | |
| PERIMETER FIELD CHLORIDES RESULTS SAMPLE READING CALC. (mg/kg) PID RESULTS SAMPLE ID RESULTS SAMPLE ID (mg/kg) Fig. Comp o c XX XX XX XX XX XX XX XX XX | | The same of the sa | | | | | |
| SAMPLE READING CALC. (mg/kg) PID RESULTS SAMPLE ID RESULTS SAMPLE ID RESULTS (mg/kg) FOR CALC. (mg/kg) PID RESULTS SAMPLE ID RESULTS (mg/kg) FOR CALC. (mg/k | and the second s | <u> </u> | | | - the state of the | | |
| PID RESULTS SAMPLE ID RESULTS (mg/kg) PID RESULTS SAMPLE ID (mg/kg) FOR COMP O C X X X X X X X X X X X X X | PERIMETER | FIELD C | CHLORIDE | S RESULTS | | PRO | DFILE |
| LAB SAMPLES SAMPLE D RESULTS SAMPLE D (mg/kg) Ser comp oc X X X Y Ser comp oc X X X X X X Y Ser comp oc X X X X X X X X X X X X X | | | READING | | M'×17' | , 4' DEE | P |
| LAB SAMPLES SAMPLE D RESULTS SAMPLE D (mg/kg) Ser comp oc X X X Y Ser comp oc X X X X X X Y Ser comp oc X X X X X X X X X X X X X | 1 | | | | | | |
| LAB SAMPLES SAMPLE ID RESULTS (mg/kg) FOR COMP OC LAB SAMPLES SAMPLE ID RESULTS (mg/kg) FOR COMP OC NOTES: SAMPLE ID RESULTS (mg/kg) FOR COMP OC NOTES: SAMPLE ID RESULTS (mg/kg) FOR COMP OC NOTES: NMOC D Ranking OC Closure CHLORDES | 直 | | | | BERM | | Bein |
| LAB SAMPLES SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOC D Ranking 10 : Llosure 1000 ppm | T. | | and the second second second second second | |) | | |
| LAB SAMPLES SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOC D Ranking 10 : Llosure 1000 ppm | 11-11 18 | | | | | / - | <u> </u> |
| LAB SAMPLES SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOC D Ranking 10: Llosure 1000 ppm | (C) > - (C) 100. | | PID RESU | | ∤ | ´ × | |
| LAB SAMPLES SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOC D Ranking 10: Llosure 1000 ppm | () | [SAM | PLE ID | | ١ ١ | \ | × \ |
| LAB SAMPLES SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NOTES: NMOCD Ranking 10 Llosure 1000 ppm | | 4 | | (,8,2-8) | j (| X | |
| SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOCD Ranking 10: Closure 1000 ppm | | - SPT | Comp | 0.0 | , | X | Vi / |
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| SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOCD Ranking 10: Closure 1000 ppm | | | | |] | | |
| SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO CHLORIDES NMOCD Ranking 10: Closure 1000 ppm | T AD CAMPI EC | NOTES: | | | | | |
| | SAMPLE ID ANALYSIS RESULTS BENZENE BTEX GRO & DRO | | Ranki | ng 10 | : Closur | e 10 | 00 ppm |
| WORKORDER # WHO ORDERED | · | WORKORDER# | | WHO ORDE | RED | | |



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

Sample No.:

Sample ID:

Sample Matrix:

Preservative:

Condition:

1

5 Point Composite

Soil

Cool

Cool and Intact

Project #:

03056-0164

Date Reported:

1/21/2009

Date Sampled: Date Analyzed: 10/29/2008 10/29/2008

Analysis Needed:

TPH-418.1

| | | Det. |
|-----------|---------------|---------|
| | Concentration | Limit |
| Parameter | (mg/kg) | (mg/kg) |

Total Petroleum Hydrocarbons

116

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Bisti Coal 2-2 Earth Pit

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Roynell Benally

Printed

Greg Crabtree

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

29-Oct-08

| Parameter | Standard Concentration mg/L | Concentration Reading mg/L | |
|-----------|-----------------------------------|----------------------------------|--|
| TPH | 100 | | |
| | 200 | 192 | |
| | 500 | | |
| | 1000 | | |

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

| FB.M | |
|---------|--|
| Analyst | |

1/27/69 Date

Roynell Benally

Print Name

1/27/09

Greg Crabtree

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: | Elmridge | Project #: | 03056-0136 |
|--------------------|------------------|---------------------|------------|
| Sample ID: | Bisti Coal 2-002 | Date Reported: | 11-04-08 |
| Laboratory Number: | 47933 | Date Sampled: | 10-29-08 |
| Chain of Custody: | 5654 | Date Received: | 10-29-08 |
| Sample Matrix: | Soil | Date Analyzed: | 11-03-08 |
| Preservative: | Cool | Date Extracted: | 10-31-08 |
| Condition: | Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | 1.2 | 0.9 |
| Toluene | 6.2 | 1.0 |
| Ethylbenzene | 1.2 | 1.0 |
| p,m-Xylene | 4.0 | 1.2 |
| o-Xylene | 2.2 | 0.9 |
| Total BTEX | 14.8 | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 97.0 % |
| | 1,4-difluorobenzene | 97.0 % |
| | Bromochlorobenzene | 97.0 % |

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments: Earth Pit Samples, 5pt Comp.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: | N/A | Project #: Date Reported: | N/A |
|--------------------|----------------|---------------------------|----------|
| Sample ID: | 11-03-BT QA/QC | | 11-04-08 |
| Laboratory Number: | 47923 | Date Sampled: | N/A |
| Sample Matrix: | Soil | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 11-03-08 |
| Condition: | N/A | Analysis: | BTEX |

| Calibration and | I-Cal RF: | C-Cal RF: | %Diff. | Blank | Detect. |
|-------------------------|-------------|--------------|------------|-------|---------|
| Detection Limits (ug/L) | | Accept. Rang | je 0 - 15% | Conc | Limit |
| Benzene | 4.3065E+007 | 4.3151E+007 | 0.2% | ND | 0.1 |
| Toluene | 3.3071E+007 | 3.3137E+007 | 0.2% | ND | 0.1 |
| Ethylbenzene | 2.5284E+007 | 2.5335E+007 | 0.2% | ND | 0.1 |
| p,m-Xylene | 2.5284E+007 | 2.5335E+007 | 0.2% | ND | 0.1 |
| o-Xylene | 2.4071E+007 | 2.4119E+007 | 0.2% | ND | 0.1 |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect, Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene | 1.4 | 1.3 | 7.1% | 0 - 30% | 0.9 |
| Toluene | 16.9 | 17.0 | 0.6% | 0 - 30% | 1.0 |
| Ethylbenzene | 56.3 | 56.1 | 0.4% | 0 - 30% | 1.0 |
| p,m-Xylene | 179 | 181 | 0.9% | 0 - 30% | 1.2 |
| o-Xylene | 86.6 | 86.2 | 0.5% | 0 - 30% | 0.9 |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene | 1.4 | 50.0 | 50.4 | 98.1% | 39 - 150 |
| Toluene | 16.9 | 50.0 | 64.6 | 96.6% | 46 - 148 |
| Ethylbenzene | 56.3 | 50.0 | 104 | 98.0% | 32 - 160 |
| p,m-Xylene | 179 | 100 | 276 | 98.7% | 46 - 148 |
| o-Xylene | 86.6 | 50.0 | 133 | 97.7% | 46 - 148 |

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 47923 - 47926, 47928, 47930, 47932, 47933, 47942, and 47943.

Analyst

Review



Chloride

Client: Sample ID: Lab ID#: Sample Matrix: Preservative: Condition:

Elmridge Bisti Coal 2-002 47933 Soil Extract Cool Intact

Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Chain of Custody: 03056-0136 11-04-08 10-24-08 10-29-08 11-04-08 5654

Parameter

Concentration (mg/L)

Total Chloride

290

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Earth Pit Samples, 5pt Comp.

Analyst

CHAIN OF CUSTODY RECORD

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