AP - 072

STAGE 1 PROPOSAL

DATE: 8/28/2007

WORLD-WIDE ENVIRONMENTAL SPECIALISTS





PHONE (505) 397-6358 • FAX, 505) 397-0397 • 1324 W MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 F-MAIL: bbc@bbcintemational.com

August 22, 2007

VIA FEDERAL EXPRESS AIRBILL NUMBER: 7924 0212 6496

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Mr. Glenn Von Gonten New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

SUBJECT: STAGE 1 ABATEMENT PLAN (AP-072) STATE M-1 SALT WATER DISPOSAL TANK BATTERY

Dear Mr. Von Gonten:

On behalf of Chesapeake Operating, Inc., BBC International, Inc. respectfully submits the enclosed Stage 1 Abatement Plan (AP-072).

If you have any questions, please do not hesitate to contact myself at (505) 397-6388 or via e-mail at cbrunson@bbcinternational.com or Bradley Blevins with Chesapeake Operating, Inc. at (505) 391-1462, extension 6224 or via e-mail at bblevins@chkenergy.com.

Sincerely,

BBC International, Inc.

Cliff P. Tumon

Cliff P. Brunson, CEI, CRS President

cc: Chris Williams – NMOCD, Hobbs Bradley Blevins – Chesapeake, Hobbs Harlan Brown – Chesapeake, Oklahoma City



STATE M-1 SALT WATER DISPOSAL TANK BATTERY

UNIT LETTER "O", SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST LEA COUNTY, NEW MEXICO

STAGE 1 ABATEMENT PLAN (AP-072)

AUGUST 2007

CHESAPEAKE OPERATING, INC.

HOBBS, NM

PREPARED BY:

BBC INTERNATIONAL, INC. WORLD-WIDE ENVIRONMENTAL SPECIALISTS 1324 W. MARLAND BLVD. HOBBS, NEW MEXICO 88240 (505)397-6388 • FAX (505)397-0397 EMAIL: <u>cbrunson@bbcinternational.com</u>

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1.0 INTRODUCTION

The subject site is located east of Buckeye, New Mexico in Lea County in Unit Letter O, of Section 18, Township 17 South, and Range 36 East. The site is a former operating tank battery. Chesapeake Operating, Inc. (Chesapeake) purchased the tank battery from Permian Resources in April 2004.

In the spring of 2007, Chesapeake decided to abandon the tank battery. As part of the process of abandonment, site investigation activities were conducted by BBC International, Inc. (BBC) in May 2007. An air rotary drilling rig was utilized to collect samples in order to delineate the lateral and vertical extent of potential hydrocarbon and chloride impact around the tank battery site. Laboratory analyses indicated soil and ground water impact above New Mexico Oil Conservation Division (NMOCD) guidelines and the New Mexico Water Quality Control Commission (WQCC) ground water standards.

On May 30, 2007, the NMOCD was notified via e-mail of the groundwater impact at the site (See Appendix I). The NMOCD notified Chesapeake in a letter dated June 19, 2007 that a Stage I Abatement Plan was required for the State M-1 SWD Tank Battery to investigate groundwater contamination in accordance with NMOCD's regulations found in Rule 19 of the New Mexico Administrative Code, Chapter 15, Part 15.1.19 (19.15.1.19 NMAC) because hydrocarbons released from the tank battery had contaminated ground water at concentrations that exceed the WQCC ground water protection standards specified at 20.6.2.3103 NMAC.

Chesapeake is unaware of any previous investigations related to this site.

Chesapeake has retained BBC International, Inc. (BBC) to investigate and manage the site activities at the State M-1 Salt Water Disposal Tank Battery.

2.0 SITE DESCRIPTION

The subject property is located in southern Lea County in the southeastern corner of New Mexico. The area is in the Pecos River Valley section of the Great Plains physiographic province and is located in the southern margin of the Llano Estacado. The region is generally a treeless, gently sloping plain, with shallow playa lakes, sand dunes and covered with short prairie grass. The climate of the area is classified as semi-arid to arid and is characterized by low annual rainfall, low humidity, and a high average annual temperature. Local precipitation averages approximately 13 inches per year. Evaporation in the region is approximately 100 inches per year (Nicholson and Clebsch).

The site is located in the northwestern quadrant of Section 18, Township 17 South, Range 36 East. The site is located in the eastern portion of the Buckeye area. Currently, the site is surrounded by oil field operations and ranch land.

3.0 SITE ACTIVITIES

In May 2007, BBC conducted drilling and soil sampling within the site to delineate the lateral and vertical extents of hydrocarbon and chloride impact. Soil samples at each borehole were taken at one (1) foot bgs, three (3) feet bgs, five (5) feet bgs, and at five (5) foot intervals thereafter. Headspace measurements using a photo ionization detector (PID) and chloride field screens were used to determine which sample in the range between five (5) feet bgs and total depth of the soil boring qualified for laboratory analyses (e.g. the sample with highest results of field tests). The sample collected at the extent of each boring was also submitted for laboratory analysis. Consequently, five (5) soil samples from each soil boring were submitted to a laboratory and analyzed for total petroleum hydrocarbons (TPH), including speciation of gasoline range organics (GRO) and diesel range organics (DRO), chloride, benzene, toluene, ethylbenzene, and xylene (BTEX). Please see **Table 1** for summaries of soil analytical data and **Appendix II** for all laboratory analytical reports.

The first soil boring, SB1, was advanced on May 3, 2007 located south of the abandoned well in the center of the northeast caliche pad. BTEX was nondetectable with the exception of the one (1) foot bgs sample which detected a trace amount of total xylenes. Chloride levels ranged from 1,790 ppm at one (1) foot bgs to 5,140 ppm at twenty (20) feet bgs to 408 ppm at thirty-nine (39) feet bgs. GRO and DRO were detected at low concentrations at one (1) foot bgs and were non-detectable in remaining samples. Please refer to **Figure 1** for the location of all samples collected. All drilling logs are located in **Appendix IV**.

On May 22, 2007, five (5) soil borings were drilled. SB2 was drilled at the west end of the tank pad. BTEX was detected at both the one (1) foot and three (3) foot bgs samples. The other samples to fifty (50) feet bgs were non-detect for BTEX. Chloride was detected in ranges from 2,020 ppm at one (1) foot bgs to 2,060 ppm at thirty (30) feet bgs then down to 43.5 ppm at fifty (50) feet bgs. GRO and DRO were detected down to three (3) feet bgs then non-detect to terminus at fifty (50) feet bgs.

SB3 was drilled east of SB2 in the north central area of the site. BTEX was detected in low concentrations down to three (3) feet bgs then non-detect to thirty nine (39) feet bgs. Chloride declined from 2,720 ppm at one (1) foot bgs to 328 ppm at thirty-nine (39) feet bgs. GRO and DRO were non-detectable below the five (5) foot sample.

SB4 was drilled east of SB3 and next to the pump pad on the east end of the caliche pad. At SB4, only Total Xylenes were detected at low levels for BTEX constituents. Chloride levels spiked to 3,310 ppm at twenty (20) feet bgs then

dropped to 144 ppm at thirty nine (39) feet bgs. GRO and DRO were non-detect except for GRO at one (1) foot bgs which was 16.4 ppm.

SB5 was located east of SB4 at the northeast corner of the site. All constituents of concern (COCs) at SB5 with the exception of chloride were non-detectable. Chloride concentrations ranged from 1,210 ppm at one (1) foot bgs to 2,080 ppm at twenty (20) feet bgs to 49.1 ppm at the terminus of thirty-five (35) feet bgs.

SB6 was drilled south of SB5 on the east side of the site. BTEX was nondetectable. Chloride began at 414 ppm at one (1) foot bgs, peaked at fifteen (15) feet bgs with 1,460 ppm, and dropped to 461 ppm at thirty-five (35) feet bgs. The only detection of GRO occurred in the five (5) foot sample at 1,300 ppm. DRO was not detectable throughout the soil boring.

On May 23, 2007, SB7 was drilled at the southwest corner of the site. All COCs with the exception of chloride steadily increased in concentration with depth at this boring. The highest chloride was 210 ppm at the five (5) foot bgs sample depth. All of the rest of the samples were below 50 ppm. Hydrocarbons were detected continuously using PID and olfactory detection until water was encountered. SB7 was then completed as a permanent groundwater monitoring well and renamed MW1. The well was drilled to a total depth of fifty (50) feet bgs. The well was constructed with a minimum of fifteen (15) feet of 2 inch (2") PVC well screen with ten (10) feet of well screen below the water table. Blank PVC riser was extended to the surface. Filter sand was installed to two-three (2-3) feet above the well screen followed by a bentonite plug and cement grout to the surface with a cement pad and locking vault put in place.

An initial ground water sample was collected and analyzed after purging three (3). well volumes of water on May 23, 2007. The analytical results showed non-detect for BTEX, GRO, and DRO. Chloride was detected at 108 ppm. See **Table 2** for a summary of ground water analytical data. Since the well bore had a hydrocarbon odor, the well was allowed to recharge for a week and on May 29, 2007 the well was gauged with an interface depth probe that detected 5.9 feet of free phase hydrocarbon on the water table. The NMOCD was notified of ground water impact on May 30, 2007 via e-mail. (See Appendix I).

SB8 was placed in the center of the entire site and northeast of MW1 (SB7). BTEX was not detectable. Chloride declined from 10,800 ppm at one (1) foot bgs to 263 ppm at thirty-nine (39) feet bgs. GRO was detected at one (1) foot bgs and not detectable throughout the remainder of the soil boring. DRO was also not detectable throughout the soil boring.

4.0 SITE INVESTIGATION

Chesapeake is submitting this Stage 1 Abatement Plan in accordance with the NMOCD's Rule 19 (19.15.1.19 NMAC) to investigate potential ground water

contamination at Chesapeake's State M-1 SWD Tank Battery site located in Section 18, Township 17 South, Range 36 East, Lea County, New Mexico.

Chesapeake proposes the following to investigate and delineate the site utilizing the advancement of soil borings and ground water monitoring wells and associated laboratory analyses.

4.1 Soil

A minimum of three (3) soil borings will be advanced at the site to delineate the vertical and horizontal extent of potential hydrocarbon and chloride contamination present in the vadose zone. The proposed location of these soil borings are depicted on **Figure 3**.

The locations of the proposed soil borings are necessary to delineate the area of soil impact of hydrocarbons and chloride that may exist in the vadose zone at the site.

Site history information, conditions, and field screening analytical techniques for hydrocarbons and chloride will dictate the depth and any additional number of soil borings advanced at the site.

An air-rotary rig equipped with split-spoon sampling tools will be used to advance the soil borings and collect the soil samples. The soil borings advanced at the site will be sampled initially in the near surface (0-3 feet below ground surface (bgs)), then sampled every five feet until terminus.

4.2 QA/QC Sampling Procedures-Soil

The soil samples will be obtained by personnel utilizing appropriate sampling tools and wearing clean disposable gloves. The soil samples will be collected using sampling tools that will be decontaminated using an Alconox detergent solution and rinsed with distilled water between sampling events. The drilling equipment will be decontaminated prior to being brought on the site as well as decontaminated between soil borings.

Each soil sampling interval will be split into two equal portions and placed in separate containers. The first portion of the sample will be placed into a container to field screen the soil using a photo ionization detector (PID) for hydrocarbon detection, then using a titration analysis for chloride. The second portion of the sample will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the testing laboratory. Each container will be filled to capacity with soil. All containers will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40° F (4° C). The cooler will be sealed for delivery to the laboratory for laboratory testing utilizing proper chain of custody documentation throughout the sampling process. The samples will be

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delivered for analysis to Trace Laboratories, Inc. in Lubbock, Texas. The laboratory will be responsible for proper QA/QC procedures utilized during the analytical process. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

4.3 Laboratory Analysis-Soil

The soil samples will be analyzed for all constituents contained in the following analytical methods for initial site characterization according to NMOCD requirements:

- Metals Method SW6020
- Total Mercury Method 7470
- Total Petroleum Hydrocarbons (TPH) Method SW 846-8015 Modified DRO/GRO
- Volatile Organic Compounds (VOCs (including BTEX)) Method SW 846-8260B
- Semi-volatile Organic Compounds (SVOCs) Method SW 846-8270C
- Chloride Method E300
- Cyanide Method E335.3
- Nitrogen, Nitrite Method E354.1
- pH Method E150.1

4.4 Ground Water

A minimum of nine (9) ground water monitoring wells will be advanced and installed at the site to delineate the vertical and horizontal extent of potential hydrocarbon and chloride contamination present in the vadose zone and the ground water aquifer. The proposed location of these ground water monitoring wells are depicted on **Figure 3**.

The locations of the proposed ground water monitoring wells are necessary to assist in delineating the impact of the ground water from the operations of the former tank battery.

Three (3) up gradient wells and six (6) down gradient well of the former tank battery will be installed in order to define the site geology and hydrogeology of potential vadose-zone and ground water contamination, subsurface hydraulic conductivity, transmissivity, storativity, and rate and direction of potential contaminant migration. If site conditions warrant the collection of additional data concerning ground water, additional ground water monitoring wells may be installed.

An air-rotary rig equipped with split-spoon sampling tools will be used to advance the ground water monitoring wells and collect the soil samples. The ground water monitoring wells advanced at the site will be sampled initially in the near surface (0-3 feet below ground surface (bgs)), then sampled every five feet until terminus.

4.5 QA/QC Sampling Procedures-Soil (Ground Water Monitoring Wells)

The soil samples will be obtained by personnel utilizing appropriate sampling tools and wearing clean disposable gloves. The soil samples will be collected using sampling tools that will be decontaminated using an Alconox detergent solution and rinsed with distilled water between sampling events. The drilling equipment will be decontaminated prior to being brought on the site as well as decontaminated between soil borings.

Each soil sampling interval will be split into two equal portions and placed in separate containers. The first portion of the sample will be placed into a container to field screen the soil using chloride titration analysis. The second portion of the sample will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the testing laboratory. Each container will be filled to capacity with soil. All containers will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40° F (4° C). The cooler will be sealed for delivery to the laboratory for laboratory testing utilizing proper chain of custody documentation throughout the sampling process. The samples will be delivered for analysis to Trace Laboratories, Inc. in Lubbock, Texas.

The laboratory will be responsible for proper QA/QC procedures utilized during the analytical process. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

4.6 Laboratory Analysis-Soil (Ground Water Monitoring Wells)

The soil samples will be analyzed for all constituents contained in the following analytical methods for initial site characterization according to NMOCD requirements:

- Metals Method SW6020
- Total Mercury Method 7470
- Total Petroleum Hydrocarbons (TPH) Method SW 846-8015 Modified DRO/GRO
- Volatile Organic Compounds (VOCs (including BTEX)) Method SW 846-8260B
- Semi-volatile Organic Compounds (SVOCs) Method SW 846-8270C
- Chloride Method E300
- Cyanide Method E335.3
- Nitrogen, Nitrite Method E354.1
- pH Method E150.1

4.7 Ground Water Monitor Well Construction and Development

The proposed ground water monitor wells will be completed in the locations as depicted in **Figure 3**. The wells will be constructed of a minimum of fifteen (15) feet of 2 inch (2") PVC well screen with ten (10) feet of well screen below the water table. Blank PVC riser will be extended to the surface. Filter sand will be installed to two-three (2-3) feet above the well screen followed by a bentonite plug and cement grout to the surface with a cement pad and locking vault put in place.

The ground water monitor wells will be developed by surging and bailing or pumping to facilitate ground water flow into the well bore. Following development, the wells will be gauged for depth to ground water and to determine if free hydrocarbons are present. A minimum of twelve (12) hours after installation, the wells will be gauged, purged, and sampled for the required constituents.

4.8 QA/QC Sampling Procedures-Ground Water

The ground water monitor wells will be developed and purged prior to sampling. Monitoring wells with a sufficient recharge will be purged by removing a minimum of three well volumes. Monitoring wells that do not recharge sufficiently will be purged until no additional ground water can be obtained.

After purging the newly installed wells, groundwater samples will be collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Groundwater sample containers will be filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers filled first and PAH containers second).

Ground water samples collected for BTEX analysis will be placed in 40 ml glass VOA vials equipped with Teflon lined caps that will be provided by the analytical laboratory. The vials will be filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

Ground water samples collected for PAH analysis will be filled to capacity in sterile, one (1) liter glass containers equipped with Teflon lined caps. Ground water samples collected for metals analysis will be filled to capacity in sterile, one (1) liter plastic containers equipped with Teflon lined caps. All of the sampling containers will be provided by the analytical laboratory.

All containers will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40[°]F (4[°]C). The cooler will be sealed for delivery to the laboratory for laboratory testing utilizing proper chain of custody documentation throughout the sampling process. The samples will be delivered for analysis to Trace Laboratories, Inc. in Lubbock, Texas.

The laboratory will be responsible for proper QA/QC procedures utilized during the analytical process. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

4.9 Laboratory Analysis-Ground Water Monitoring Wells

The ground water samples will be analyzed for all constituents contained in the following analytical methods for initial site characterization according to NMOCD requirements:

- Metals Method SW6020
- Total Mercury Method 7470
- Volatile Organic Compounds (VOCs (including BTEX)) Method SW 846-8260B
- Semi-volatile Organic Compounds (SVOCs) Method SW 846-8270C
- Chloride Method E300
- Cyanide Method E335.3
- Nitrogen, Nitrite Method E354.1
- pH Method E150.1
- Total Dissolved Solids E160.1

5.0 MONITORING PLAN

All site ground water monitoring wells will be gauged and sampled on a quarterly basis during the life of the abatement process. The constituents analyzed for will be determined in consultation with the NMOCD after the initial characterization of the first sampling event after the installation of the ground water monitoring wells.

6.0 AQUIFER DESCRIPTION

Several aquifers are located in the Buckeye area, the Quaternary alluvium, the Ogallala formation, and the Triassic Dockum Group which is composed of the Chinle formation and the Santa Rosa Sandstone (Nicholson and Clebsch). The community of Buckeye obtains ground water for domestic use from the Ogallala formation which is the major fresh water aquifer in the area. According to the New Mexico Office of the State Engineer (NMOSE), current depth to water in the site vicinity is approximately 40 to 50 feet and ground water flow direction in the Ogallala aquifer is towards the east southeast.

The site is within the limits of the Lea County Basin as declared by the New Mexico Office of the State Engineer (NMOSE). In the Lea County Basin, the sole source of drinking water is the Ogallala Aquifer. In the Southern High Plains area, the Ogallala Aquifer ranges in saturated thickness from 25 feet to 175 feet. Recharge to the aquifer is fed wholly by precipitation and most water infiltration occurs through playas. Typical recharge rates to the unconfined Ogallala in this area are approximately 0.25 to 0.5 inch/year (Nicholson and Clebsch).

7.0 INVENTORY OF WATER WELLS WITHIN ONE MILE

An inventory of water wells located within one mile of the site can be found in **Appendix III**. These well locations were obtained from the website of the New Mexico Office of the State Engineer.

8.0 SURFACE OWNERSHIP

Chesapeake will conduct a one-mile radius search from the site of all known and registered surface owners. A review of the public tax rolls of Lea County, NM will identify the name and addresses of the surface owners within one mile of the site and a list will be generated. **Figure 2** is a diagram depicting the one-mile radius search.

9.0 SCHEDULE OF ACTIVITIES

All Stage 1 Abatement Plan activities will commence within 30 days of the final approval of the Stage 1 Abatement Plan following the public notice period and approval from the NMOCD. A schedule of site activities will be submitted to the NMOCD upon final approval of the Stage 1 Abatement Plan along with follow up quarterly progress reports then a final report upon completion of investigative Stage 1 Abatement activities.

10.0 DELIVERABLES

A Stage 1 Abatement Plan Site Investigation Report will be submitted within 60 days upon completion of investigative activities which will include, but not limited to, a description and history of the site, site map, a description of site investigative activities, summary data tables, laboratory analytical data, ground water gradient map, isoconcentration maps and cross sections that depict any identified contamination that may have been released from the former tank battery, and any data necessary to select and design an effective abatement option under NMOCD Rule 19 Stage 2 Abatement requirements.

A paper and electronic copy of all work plans and/or reports will be submitted to both the Santa Fe, New Mexico and Hobbs, New Mexico offices of the NMOCD.

11.0 ABATEMENT PROCESS

On behalf of Chesapeake, BBC has submitted this Stage 1 Abatement Plan (AP-061) in accordance with NMOCD Rule 19 NMAC 15.1.19.

Upon NMOCD approval of the Stage 1 Abatement Plan, all public notice and participation requirements under Rule 19 (19.15.1.19 NMAC), specifically Rule 19G, will be followed.

12.0 REFERENCES

- Nicholson, Jr., Alexander and Clebsch, Jr. Alfred, 1961, *Geology and Ground-Water Conditions in Southern Lea County, New Mexico, Ground-Water Report 6*, New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico, 120pp.
- NMOSE New Mexico Office of the State Engineer, iWaters website: http://iwaters.ose.state.nm.us:7001/iWATERS/

FIGURE 1

SITE DIAGRAM WITH SOIL BORINGS AND MONITOR WELLS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM



| | 60 0 60 120 FEET |
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| | BBC INTERNATIONAL |
| PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO | FIGURE 1 SITE DIAGRAM AT THE STATE M-1 SWD IN SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST N.M.P.M., LEA COUNTY, NEW MEXICO |
| HOBBS, N.M. 88240 (505) 393–3117 | Survey Date: 7/9/07 Sheet 1 of 1 Sheets |
| | W.O. Number: 07.11.0846 Drawn By: L.A. |
| | Date: 7/19/07 DISK: CD#6 07110846 |

FIGURE 2

ONE-MILE RADIUS MAP

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

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August 2007

Chesapeake Operating, Inc. Hobbs, NM

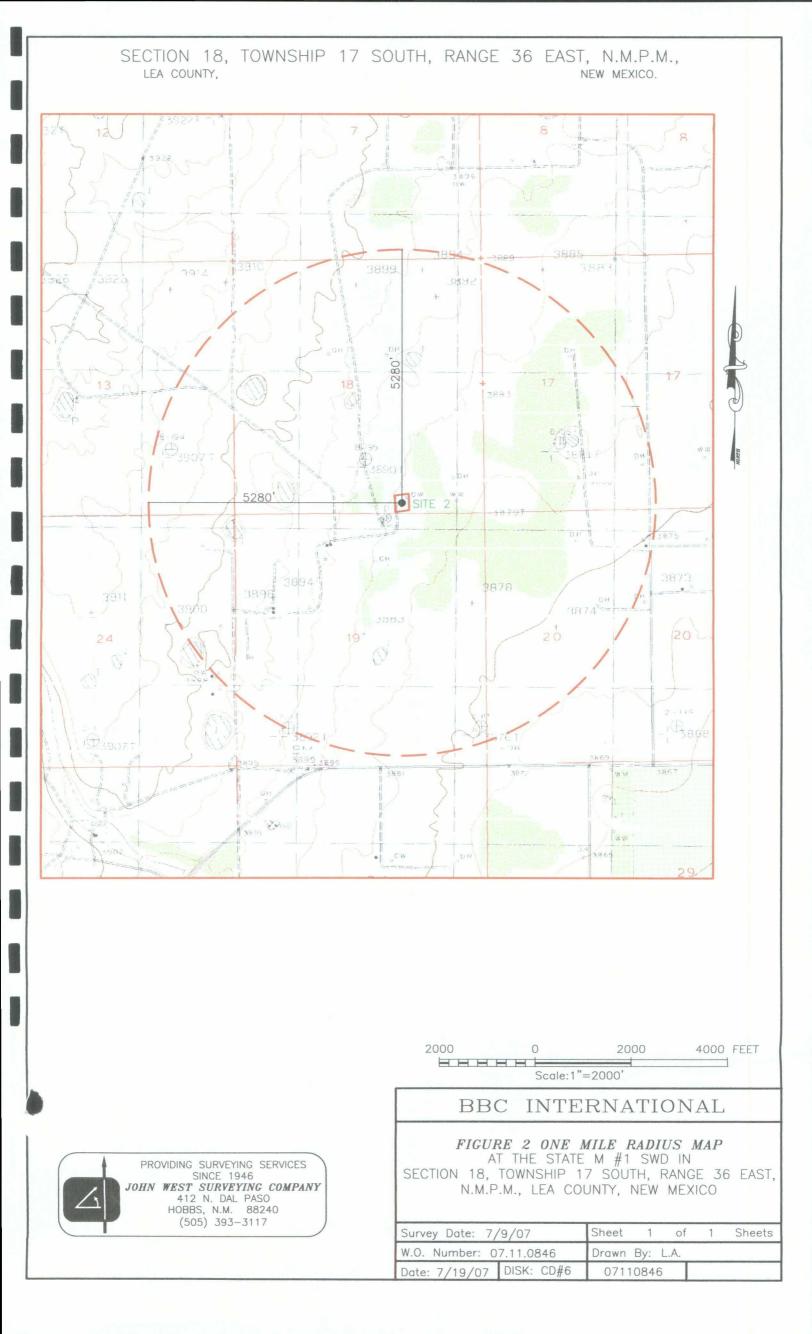


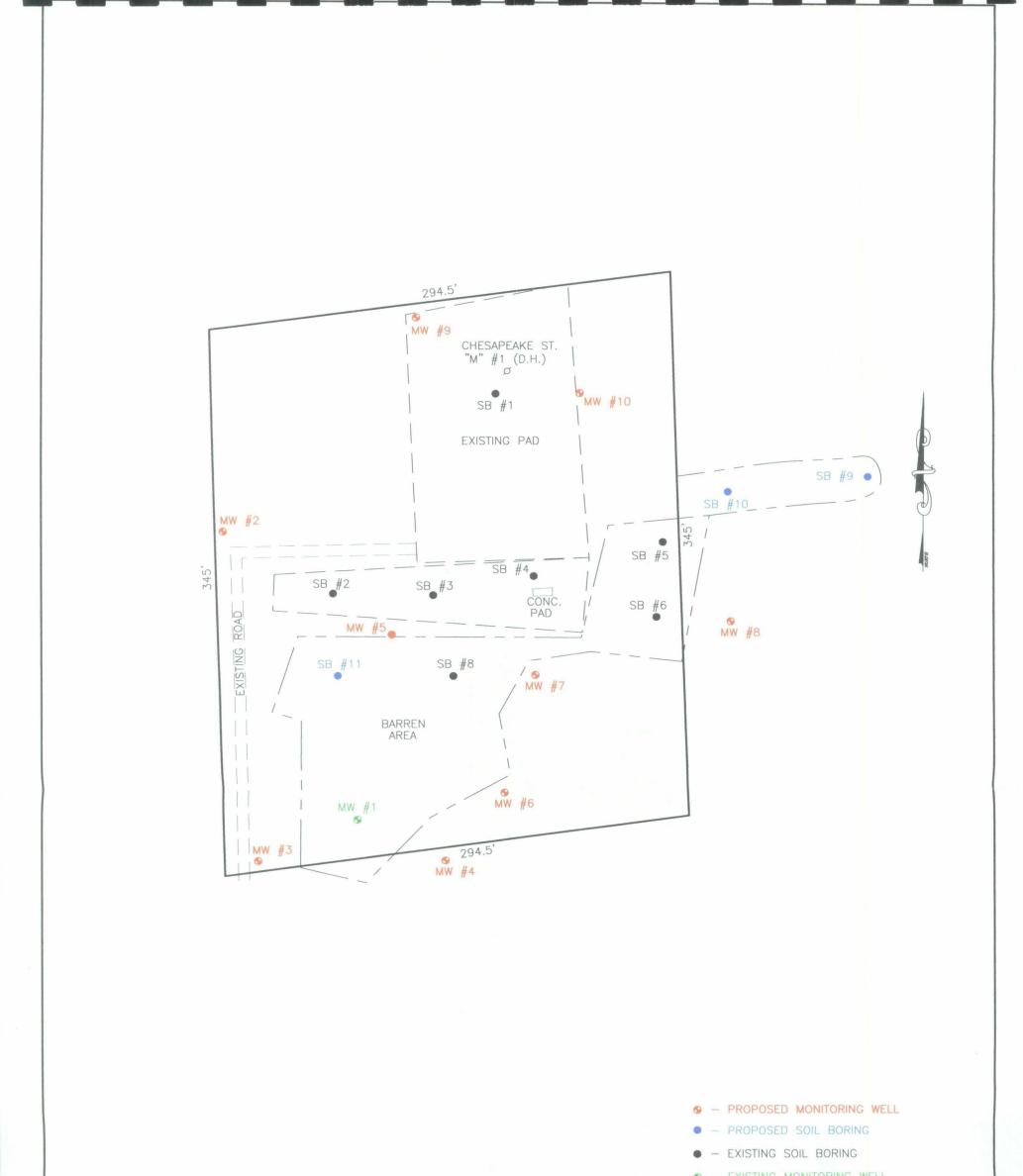
FIGURE 3

PROPOSED SOIL BORING AND MONITOR WELLS

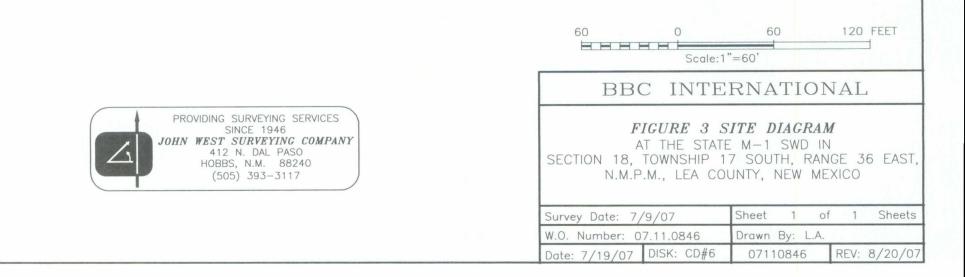
STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM



EXISTING MONITORING WELL



APPENDIX I

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CORRESPONDENCE

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

Cliff P. Brunson

| From: | Cliff P. Brunson [cbrunson@bbcinternational.com] |
|---------|---|
| Sent: | Wednesday, May 30, 2007 6:15 PM |
| To: | Wayne Price |
| Cc: | Bradley Blevins; Harlan Brown; Curtis Blake; Ken Swinney; Jennifer Gilkey |
| Subject | : Chesapeake State M #1 SWD Battery-Groundwater Impact Notification |
| | |

Mr. Price,

This Email is formal notification that Chesapeake Operating, Inc. has encountered a hydrocarbon impacted ground water bearing formation at the State M #1 SWD Battery during a site investigation prior to reclamation of the abandoned facility. During the investigation and assessment activities, a soil boring was advanced to the south of the battery to groundwater. Hydrocarbons were encountered in the soil during the advancement and a permanent monitor well was installed. The well was developed and measured 5.9 feet of free phase hydrocarbons on the water table. The following is general information regarding the site:

Name: State M #1 SWD Battery;

Operator: Chesapeake Operating, Inc.;

Location: Township 17S, Range 36E, Section 18;

County: Lea County, New Mexico; and

Depth to ground water: 42.3 feet (based on a measurement from the top of the casing of the monitor well).

Chesapeake has ceased investigation activities until further direction from the NMOCD.

Chesapeake will keep the NMOCD informed of any activities at the site.

As you are aware Chesapeake is currently working with Glenn Von Gonten on another remediation site in Lea County and would like to request Glenn as our point of contact on this site.

If you have questions, please contact me at (505) 397-6388 or via email at <u>cbrunson@bbcinternational.com</u> or Bradley Blevins of Chesapeake at (505) 391-1462, ext. 6224 or via e-mail at <u>bblevins@chkenergy.com</u>.

Best regards,

Cliff Brunson

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland Blvd.

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

JUNE 19, 2007

Mr. Brad Blevins Chesapeake Operating, Inc. P.O. Box 190 Hobbs, NM 88240

RE: REQUIREMENT TO SUBMIT ABATEMENT PLAN CHESAPEAKE STATE M-1 UNIT LETTER "O", SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST LEA COUNTY, NEW MEXICO AP072

Dear Mr. Blevins:

The New Mexico Oil Conservation Division (OCD) has determined after reviewing the notice submitted by BBC International on behalf of Chesapeake Operating, Inc. (Chesapeake), that Chesapeake must submit a Stage 1 Abatement Plan in accordance with OCD Rule 19 (19.15.1.19 NMAC) to investigate ground water contamination at its State M-1 SWD Tank Battery site located in Unit Letter "O", Section 18, Township 17 South, Range 36 East, Lea County, New Mexico. OCD is requiring an abatement plan because hydrocarbons released from Chesapeake's SWD Tank Battery has contaminated ground water at concentrations that exceed the WQCC ground water protection standards specified at 20.6.2.3103 NMAC.

The Stage 1 Abatement Plan proposal must be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and must meet of all the requirements specified in Rule 19 (19.15.1.19 NMAC), including, but not limited to, the public notice and participation requirements specified in Rule 19G. The Stage 1 Abatement Plan is due sixty (60) days from the receipt by Chesapeake of this written notice.

The Stage 1 Abatement Plan must meet all of the requirements specified in OCD Rule 19E.3, including, but not limited to, a site investigation work plan and monitoring program that will enable it to characterize the release using an appropriate number of isoconcentration maps and

Mr. Brad Blevins June 19, 2007 Page 2

cross sections that depict the contamination and to provide the data necessary to select and design an effective abatement option.

In addition to the Stage 1 Abatement Plan, Chesapeake must also submit a Form C-141 to document this release and impact to ground water. Chesapeake should submit one paper copy and one electronic copy of all future workplans and/or reports and must include the Case Number (AP072) on all future correspondence. If you have any questions, please contact Glenn von Gonten of my staff at (505) 476-3488.

Sincerely,

Wayne Price Environmental Bureau Chief

LWP:gvg

cc: Larry Johnson, OCD Hobbs District

APPENDIX II

ANALYTICAL DATA

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

I

H

August 2007

Chesapeake Operating, Inc. Hobbs, NM

Work Order: 7050717 State M SWD

Summary Report

Cliff Brunson BBC International 1324 W. Marland Hobbs, NM, 88240

Report Date: May 14, 2007

Work Order: 7050717

Project Location: Buckeye,NM Project Name: State M SWD

| | | Date | Time | Date |
|-------------------------------|--|---|--|--|
| Description | Matrix | Taken | Taken | Received |
| SB1 @ 1 #004004 | soil | 2007-05-03 | 11:14 | 2007-05-05 |
| SB1 @ 3 #004001 | soil | 2007-05-03 | 11:15 | 2007-05-05 |
| SB1 @ 5 #003895 | soil | 2007-05-03 | 11:16 | 2007-05-05 |
| SB1 @ 20 ³ #003929 | soil | 2007-05-03 | 11:33 | 2007-05-05 |
| SB1 @ 39 ³ #003881 | soil | 2007-05-03 | 12:29 | 2007-05-05 |
| | SB1 @ 1 #004004 SB1 @ 3 #004001 SB1 @ 5 #003895 SB1 @ 20' #003929 | SB1 @ 1 #004004 soil SB1 @ 3 #004001 soil SB1 @ 5 #003895 soil SB1 @ 20' #003929 soil | Description Matrix Taken SB1 @ 1 #004004 soil 2007-05-03 SB1 @ 3 #004001 soil 2007-05-03 SB1 @ 5 #003895 soil 2007-05-03 SB1 @ 20' #003929 soil 2007-05-03 | Description Matrix Taken Taken SB1 @ 1 #004004 soil 2007-05-03 11:14 SB1 @ 3 #004001 soil 2007-05-03 11:15 SB1 @ 5 #003895 soil 2007-05-03 11:16 SB1 @ 20' #003929 soil 2007-05-03 11:33 |

| | |] | BTEX | | MTBE | TPH DRO | TPH GRO |
|----------------------------|----------|----------|--------------|----------|---------|---------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylene | MTBE | DRO | GRO |
| Sample - Field Code | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| 123484 - SB1 @ 1 #004004 | < 0.0100 | < 0.0100 | < 0.0100 | 0.168 | | 110 | 36.4 |
| 123485 - SB1 @ 3 #004001 | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 123486 - SB1 @ 5 #003895 | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 123487 - SB1 @ 20' #003929 | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 123488 - SB1 @ 39' #003881 | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |

Sample: 123484 - SB1 @ 1 #004004

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1790 | mg/Kg | 1.00 |

Sample: 123485 - SB1 @ 3 #004001

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 617 | mg/Kg | 1.00 |

Sample: 123486 - SB1 @ 5 #003895

| Param | Flag | \mathbf{Result} | Units | \mathbf{RL} |
|----------|------|-------------------|-------|---------------|
| Chloride | | 2120 | mg/Kg | 1.00 . |

Sample: 123487 - SB1 @ 20' #003929

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock. TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

| Report Date: May 14, 2007 | | Work Order: 7050717 State M SWD | | Page Number: 2 of 2 Buckeye,NM |
|---------------------------|------|------------------------------------|-------|-----------------------------------|
| Param | Flag | Result | Units | RL |
| Chloride | | 5140 | mg/Kg | 1.00 |

Sample: 123488 - SB1 @ 39' #003881

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 408 | mg/Kg | 1.00 |



200 East Sunset Road, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 Ft. Worth, Texas 76132

800•378•1296 888•588•3443

 806 • 794 • 1296
 FAX 806 • 794 • 1298

 915 • 585 • 3443
 FAX 915 • 585 • 4944

 432 • 689 • 6301
 FAX 432 • 689 • 6313

 817 • 201 • 5260
 FAX 432 • 689 • 6313

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson BBC International 1324 W. Marland Hobbs, NM, 88240

Report Date: May 14, 2007

Work Order: 7050717

Project Location: Buckeye,NM Project Name: State M SWD Project Number: State M SWD

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| | | | Date | Time | Date |
|--------|-------------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 123484 | SB1 @ 1 #004004 | soil | 2007-05-03 | 11:14 | 2007-05-05 |
| 123485 | SB1 @ 3 #004001 | soil | 2007-05-03 | 11:15 | 2007-05-05 |
| 123486 | SB1 @ 5 #003895 | soil | 2007-05-03 | 11:16 | 2007-05-05 |
| 123487 | SB1 @ 20' #003929 | soil | 2007-05-03 | 11:33 | 2007-05-05 |
| 123488 | SB1 @ 39' #003881 | soil | 2007-05-03 | 12:29 | 2007-05-05 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich, Director

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project State M SWD were received by TraceAnalysis, Inc. on 2007-05-05 and assigned to work order 7050717. Samples for work order 7050717 were received intact at a temperature of 4 C.

Samples were analyzed for the following tests using their respective methods.

| Method |
|------------|
| S 8021B |
| E 300.0 |
| Mod. 8015B |
| S 8015B |
| |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7050717 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

| Report Date: May 14, 2007 | Work Order: 7050717 | Page Number: 3 of 15 |
|---------------------------|---------------------|----------------------|
| State M SWD | State M SWD | Buckeye,NM |

Analytical Report

Sample: 123484 - SB1 @ 1 #004004

| Toluene <0.0100 | |
|--|--------|
| Benzene <0.0100 mg/Kg 1 Toluene <0.0100 | |
| Toluene <0.0100 mg/Kg 1 Ethylbenzene <0.0100 | RL |
| Ethylbenzene <0.0100 mg/Kg 1 | 0.0100 |
| Ethylbenzene <0.0100 mg/Kg 1 | 0.0100 |
| Xylene 0.168 mg/Kg 1 | 0.0100 |
| | 0.0100 |
| Spike Percent Rec | overy |
| Surrogate Flag Result Units Dilution Amount Recovery Li | mits |
| Trifluorotoluene (TFT) 0.850 mg/Kg 1 1.00 85 52.1 | - 131 |
| 4-Bromofluorobenzene (4-BFB) 1.39 mg/Kg 1 1.00 139 48.7 | - 146 |
| | |

Sample: 123484 - SB1 @ 1#004004

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|-------------|---------------|---------------------|------------|--------------|------|
| QC Batch: | 37168 | Date Analyzed: | 2007-05-11 | Analyzed By: | ER |
| Prep Batch: | 32245 | Sample Preparation: | 2007-05-11 | Prepared By: | ER |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 1790 | mg/Kg | 100 | 1.00 |

Sample: 123484 - SB1 @ 1 #004004

| Analysis: QC Batch: Prep Batch: | TPH DRO 37046 32141 | | Analytical Me Date Analyze Sample Prepa | d: | Mod. 801 2007-05-0 2007-05-0 |)7 | Prep M Analyz Prepar | •. | N/A DS TG |
|---------------------------------------|---------------------------|--------|---|-------|------------------------------------|-----------------|----------------------------|------|-----------------------|
| | | | RL | | | | | | |
| Parameter | Fla | ıg | Result | | Units | | Dilution | | RL |
| DRO | | | 110 | | mg/Kg | | 1 | | 50.0 |
| Surrogate | Flag | Result | Units | Dilut | ion | Spike Amount | Percent Recovery | | overy mits |
| n-Triacontan | | 206 | mg/Kg | 1 | | 150 | 137 | | $\frac{11115}{1-164}$ |
| | | | 0/ ***0 | | | 100 | 201 | 00.0 | . 103 |

Sample: 123484 - SB1 @ 1 #004004

| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5035 |
|-------------|---------|---------------------|------------|--------------|--------|
| QC Batch: | 37060 | Date Analyzed: | 2007-05-08 | Analyzed By: | MT |
| Prep Batch: | 32152 | Sample Preparation: | 2007-05-08 | Prepared By: | MT |

| Report Date: May 14, 2007 State M SWD | | <u></u> | Work Order: 7050717 State M SWD | | | Page Number: 4 of 15 Buckeye,NM | | |
|--|-------------|---------|------------------------------------|-------|----------|------------------------------------|---------------------|--------------------|
| Parameter | Flag | | RL Result | | Units | D | ilution | RL |
| GRO | | | 36.4 | | mg/Kg | | 10 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (T | TFT) | | 0.880 | mg/Kg | 10 | 1.00 | 88 | 33.2 - 160 |
| 4-Bromofluorobenz | ene (4-BFB) | | 1.09 | mg/Kg | 10 | 1.00 | 109 | 10 - 227 |

Sample: 123485 - SB1 @ 3 #004001

| Analysis:BTEQC Batch:3703. Prep Batch:3213 | 8 | D a | nalytical Me ate Analyze mple Prepa | d: | S 8021B 2007-05-07 2007-05-07 | | Prep Metho Analyzed B Prepared B | y: MT |
|--|--------------|------------------|---|-------|-------------------------------------|--------|--|------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | Dil | ution | RL |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | · F | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (] | (FT) | | 0.821 | mg/Kg | <u> </u> | 1.00 | 82 | 52.1 - 131 |
| 4-Bromofluorobenz | zene (4-BFB) | •••••••••••••••• | 0.805 | mg/Kg | <u> </u> | 1.00 | 80 | 48.7 - 146 |

Sample: 123485 - SB1 @ 3 #004001

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 37168 32245 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-05-11 2007-05-11 | Prep Method: Analyzed By: Prepared By: | EŔ |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| Parameter | Flag | RL Result | Units | Dilution | RL |
| Chloride | | 617 | mg/Kg | 50 | 1.00 |

Sample: 123485 - SB1 @ 3 #004001

| Analysis: QC Batch: Prep Batch: | TPH DRO 37046 32141 | | Analytical Me Date Analyzee Sample Prepa | d: 2007-0 | | Prep M Analyz Prepar | • |
|---------------------------------------|---------------------------|----------|--|-----------|-----------------|----------------------------|--------------------|
| | | | RL | | | | |
| Parameter | Fla | <u>z</u> | Result | Un | lits | Dilution | RL |
| DRO | | | <50.0 | mg/ | Kg | 1 | 50.0 |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontan | e | 209 | mg/Kg | 1 | 150 | 139 | 33.3 - 164 |

| Report Date: May 14, 2007 | Work Order: 7050717 | Page Number: 5 of 15 |
|---------------------------|---------------------|----------------------|
| State M SWD | State M SWD | Buckeye,NM |
| | | |

Sample: 123485 - SB1 @ 3 #004001

| Analysis: QC Batch: Prep Batch: | TPH GRO 37039 32135 | | Analytical Date Anal Sample Pr | vzed: | S 8015B 2007-05-07 2007-05-07 | | Prep Meth Analyzed Prepared 1 | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|-----------------|-------------------------------------|--------------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 1.02 | mg/Kg | 1 | 1.00 | 102 | 33.2 - 160 |
| 4-Bromofiuo: | robenzene (4-BFB) | | 1.07 | mg/Kg | 1 | 1.00 | 107 | 10 - 227 |

Sample: 123486 - SB1 @ 5 #003895

| Analysis: QC Batch: Prep Batch: | BTEX 37038 32135 | | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-07 2007-05-07 | | Prep Meth Analyzed I Prepared I | By: MT |
|---------------------------------------|---------------------------------------|------|------|--|-------|-------------------------------------|--------|---------------------------------------|------------|
| | | | | RL | | | | | |
| Parameter | | Flag | | Result | | Units | D | ilution | RL |
| Benzene | | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | e e e e e e e e e e e e e e e e e e e | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | | Spike | Percent | Recovery |
| Surrogate | | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolue | ene (TFT) | | | 0.786 | mg/K | g 1 | 1.00 | 79 | 52.1 - 131 |
| 4-Bromofiuor | obenzene (4-B | FB) | | 0.772 | mg/K | g 1 | 1.00 | 77 | 48.7 - 146 |

Sample: 123486 - SB1 @ 5 #003895

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 37168 32245 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-05-11 2007-05-11 | Prep Method: Analyzed By: Prepared By: | \mathbf{ER} |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|---------------|
| Duramatar | Elor | RL | T 3 - 5 4 - | | זת |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 2120 | mg/Kg | 100 | 1.00 |

Sample: 123486 - SB1 @ 5 #003895

| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
|-------------|---------|---------------------|------------|--------------|---------------|
| QC Batch: | 37046 | Date Analyzed: | 2007-05-07 | Analyzed By: | DS |
| Prep Batch: | 32141 | Sample Preparation: | 2007-05-07 | Prepared By: | TG |

| Report Date: Ma State M SWD | y 14, 2007 | | | Order: 7050717 ate M SWD. | | Page Na | imber: 6 of 15 Buckeye,NM |
|--------------------------------|------------|--------|--------------|------------------------------|-----------------|---------------------|------------------------------|
| Parameter | Fla | g | RL Result | Uni | ts | Dilution | RL |
| DRO | | | <50.0 | mg/I | ζg | 1 | 50.0 |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontane | | 197 | mg/Kg |] | 150 | 131 | 33.3 - 164 |

Sample: 123486 - SB1 @ 5 #003895

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| Analysis: QC Batch: Prep Batch: | TPH GRO 37039 32135 | | Analytical Date Anal Sample Pr | yzed: | S 8015B 2007-05-07 2007-05-07 | | Prep Meth Analyzed Prepared I | By: MT |
|---------------------------------------|--------------------------------|------|--------------------------------------|----------------|-------------------------------------|-----------------|-------------------------------------|------------------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu 4-Bromofluor | ene (TFT) robenzene (4-BFB) | | 0.974 0.996 | mg/Kg mg/Kg | 1 | 1.00 1.00 | 97 100 | 33.2 - 160 10 - 227 |

Sample: 123487 - SB1 @ 20' #003929

| Analysis: QC Batch: Prep Batch: | BTEX 37038 32135 | | Analytical M Date Analyze Sample Prepa | ed: | S 8021B 2007-05-07 2007-05-07 | | Prep Meth Analyzed I Prepared I | By: MT |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|--------|---------------------------------------|------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | 2 | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | · | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 0.791 | mg/Kj | z 1 | 1.00 | 79 | 52.1 - 131 |
| 4-Bromofluor | obenzene (4-BFB) | | 0.770 | mg/Kg | <u>g 1</u> | 1.00 | 77 | 48.7 - 146 |

Sample: 123487 - SB1 @ 20' #003929

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 37168 32245 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-05-11 2007-05-11 | Prep Method: Analyzed By: Prepared By: | ' |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 5140 | mg/Kg | 500 | 1.00 |

| Report Date: State M SWI | Мау [.] 14, 2007 Э | | | ork Order: State M S | | | Page Nu: | mber: 7 of 18 Buckeye,NM |
|--|---|--------------------|--|-------------------------|---------------------------------------|----------------|----------------------------------|-----------------------------|
| Sample: 123 | 3487 - SB1 @ : | 20' #00392 | :9 | | | | | |
| Analysis: QC Batch: Prep Batch: | TPH DRO 37046 32141 | | Analytical Date Anal Sample Pr | vzed: | Mod. 8015 2007-05-07 2007-05-07 | | Prep Ma Analyze Prepare | ed By: DS |
| | | | RL | | | | | |
| Parameter | Fla | 1.C | Result | | Units | | Dilution | RL |
| DRO | | 0 | <50.0 | | mg/Kg | | 1 | 50.0 |
| _ | | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dil | ution | Amount | Recovery | Limits |
| n-Triacontane | 2 | 184 | mg/Kg | | 1 | 150 | 123 | 33.3 - 164 |
| Sample: 12: Analysis: QC Batch: Prep Batch: | 3487 - SB1 @ : TPH GRO 37039 32135 | 20' #00392 | Analytical Date Anal Sample Pr | yzed: | S 8015B 2007-05-07 2007-05-07 | | Prep Met Analyzed Prepared | By: MT |
| Parameter | Fla | | RL Result | | Units | | Dilution | וס |
| GRO | 1.16 | 18 | <1.00 | | mg/Kg | | 1 | |
| | | | | T7 | | Spike | Percent | Recovery |
| Surrogate Trifluorotolue | ene (TFT) | Flag | Result 0.986 | Units mg/Kg | Dilution | Amount 1.00 | Recovery 99 | Limits 33.2 - 160 |
| | obenzene (4-BF) | B) | 0.975 | mg/Kg | 1 | 1.00 | 98 | 10 - 227 |
| Sample: 12: Analysis: QC Batch: Prep Batch: | 3488 - SB1 @ BTEX 37038 32135 | 3 9' #0038{ | 31 Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-07 2007-05-07 | | Prep Met Analyzed Prepared | By: MT |
| Parameter | | lag | RL Result | | Units | | Dilution | RI |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.010 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.010 |
| Ethylbenzene | 2 | | < 0.0100 | | mg/Kg | | 1 | 0.010 |
| Xylene | | | < 0.0100 |) | mg/Kg | | 1 | 0.010 |
| Surrogate | | Flag | | Units | Dilutior | | | Recovery Limits |
| Trifluorotolue | ene (TFT) | | 0.731 | mg/Kg | 1 | 1.00 | 73 | 52.1 - 13 |
| | obenzene (4-BF | | 0.701 | mg/Kg | | 1.00 | 70 | 48.7 - 14 |

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| State M SW | :: May 14, 2007 D | | W | ork Order: State M S | | | rage Nu | mber: 8 of 1 Buckeye,N1 |
|---|---|--|---|---|---|---|---|--|
| Sample: 12 | 3488 - SB1 @ 3 | 9, #003881 | | | | | | |
| Analysis: | Chloride (IC) | | Analytic | cal Method | E 300.0 | | Prep M | ethod: N/J |
| QC Batch: | 37168 | | Date A1 | | 2007-05-11 | 1 | Analyze | |
| Prep Batch: | 32245 | | | Preparation | | | Prepare | |
| | | | RL | | | | | |
| Parameter | Flag | ŗ | Result | | Units | D | lution | R |
| Chloride | | | 408 | | mg/Kg | · · · · · · · · · · · · · · · · · · · | 5() | 1.0 |
| Sample, 12 | 3488 - SB1 @ 3 | 0, 2003661 | | | | | | |
| - | | 9 #-003001 | | | | | | |
| Analysis: | TPH DRO | | Analytical | | Mod. 8015B | | Prep M | |
| QC Batch: | 37046 | | Date Ana | | 2007-05-07 | | Analyze | |
| Prep Batch: | 32141 | | Sample Pi | reparation: | 2007-05-07 | | Prepare | ed By: TG |
| | | | RL | | | | | |
| Parameter | Flag | ז ק | Result | | Units | Ľ | Dilution | R |
| DRO | · · · · · · · · · · · · · · · · · · · | | <50.0 | | mg/Kg | | 1 | 50. |
| | | | | | | Spike | Percent | Recover |
| Surrogate | Flag | Result | Units | | ution A | mount | Recovery | Limits |
| | | | | | | 1 50 | | 00 0 30 |
| | e 3488 - SB1 @ 3 | 186 9' #003881 | mg/Kg | | 1 | 150 | 124 | 33.3 - 16 |
| Sample: 12 Analysis: QC Batch: | | | Analytical Date Anal | l Method: | S 8015B 2007-05-07 | 150 | Prep Meti Analyzed Prepared | hod: S 503 By: MT |
| Sample: 12 Analysis: QC Batch: Prep Batch: | 3488 - SB1 @ 3 TPH GRO 37039 32135 | 9, #003881 | Analytical Date Anal | l Method: lyzed: | S 8015B 2007-05-07 | _150 | Prep Met Analyzed | hod: S 503 By: MT |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter | 3488 - SB1 @ 3 TPH GRO 37039 | 9, #003881 | Analytical Date Anal Sample Pr RL Result | l Method: lyzed: | S 8015B 2007-05-07 2007-05-07 Units | | Prep Met Analyzed Prepared Dilution | hod: S 503 B ₃ :: MT B ₃ :: MT R |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter | 3488 - SB1 @ 3 TPH GRO 37039 32135 | 9, #003881 | Analytical Date Anal Sample Pr RL | l Method: lyzed: | S 8015B 2007-05-07 2007-05-07 | | Prep Met Analyzed Prepared | hod: S 503 By: MT By: MT |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO | 3488 - SB1 @ 3 TPH GRO 37039 32135 | 9' #003881 g | Analytical Date Anal Sample Pr RL Result <1.00 | l Method: lyzed: | S 8015B 2007-05-07 2007-05-07 Units | | Prep Met Analyzed Prepared Dilution | hod: S 503 B ₃ :: MT B ₃ :: MT R |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate | 3488 - SB1 @ 3 TPH GRO 37039 32135 Fla ₁ | 9, #003881 | Analytical Date Anal Sample Pr RL Result <1.00 Result | l Method: lyzed: reparation: Units | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution | Spike Amount | Prep Met Analyzed Prepared Dilution 1 Percent Recovery | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Irifluorotolu | 23488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) | 9' #003881 g Flag | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 | l Method: lyzed: reparation: Units mg/Kg | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 |
| Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu | 3488 - SB1 @ 3 TPH GRO 37039 32135 Fla ₁ | 9' #003881 g Flag | Analytical Date Anal Sample Pr RL Result <1.00 Result | l Method: lyzed: reparation: Units | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution | Spike Amount | Prep Met Analyzed Prepared Dilution 1 Percent Recovery | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu | 3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB | 9' #003881 g Flag | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 | l Method: lyzed: reparation: Units mg/Kg | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu: 4-Bromofluor Method Bla QC Batch: | 3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 | 9' #003881 g Flag | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana | l Method: lyzed: reparation: Units mg/Kg mg/Kg | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 | hod: S 503 By: MT By: MT R: 1.0 Recover, Limits 33.2 - 16 10 - 227 |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu: 4-Bromofluor Method Bla QC Batch: | 3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC | 9' #003881 g Flag | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 | l Method: lyzed: reparation: Units mg/Kg mg/Kg | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 | hod: S 503 By: MT By: MT R: 1.0 Recover, Limits 33.2 - 16 10 - 227 ed By: MT |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluor Method Bl: QC Batch: Prep Batch: | 3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 | 9' #003881 3 Flag) Batch: 37038 | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana | l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 DL | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 | hod: S 503 By: MT By: MT R: 1.0 Recover, Limits 33.2 - 16 10 - 227 ed By: MT |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bl: QC Batch: Prep Batch: Parameter | 3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 | 9' #003881 g Flag | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana | l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 2 aration: 2 MI Res | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 DL ult | I Spike Amount 1.00 1.00 Uni | Prep Meti Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Prepare | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT RI |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter Benzene | 3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 | 9' #003881 3 Flag) Batch: 37038 | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana | l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI Res <0.003 | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 OL ult 333 | I Spike Amount 1.00 1.00 Uni mg/ | Prep Meti Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Preparets Kg | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT ed By: MT RI 0.0 |
| Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene | 23488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 32135 | 9' #003881 3 Flag) Batch: 37038 | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana | l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI Res <0.003 <0.003 | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 OL ult 333 372 | I Spike Amount 1.00 1.00 Uni mg/ mg/ | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Preparets Kg | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT RI 0.0 0.0 |
| Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter Benzene | 23488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 32135 | 9' #003881 3 Flag) Batch: 37038 | Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana | l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI Res <0.003 | S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 OL ult 333 372 206 | I Spike Amount 1.00 1.00 Uni mg/ | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Preparets Kg Kg Kg | hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT ed By: MT RI 0.0 |

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| iffuorotoluene (TFT) Bromoffuorobenzene (4-BFB) Lethod Blank (1) QC Batch: C Batch: 37039 | | Wo | ork Order: 7 State M SV | | | Page Nu | e Number: 9 of 15 Buckeye,NM | | |
|---|---|---|--|--|---|--|---|--|--|
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | | |
| Trifluorotoluene (TFT) | | 0.777 | mg/Kg | 1 | 1.00 | 78 | 73.2 - 113 | | |
| -Bromoffuorobenzene (4-BFI | B) | 0.554 | mg/Kg | 1 | 1.00 | 55 | 54 - 102 | | |
| Method Blank (1) QC | Batch: 37039 | | | | | | | | |
| QC Batch: 37039 | | Date Anal | yzed: 200 | 07-05-07 | | Analyze | ed By: MT | | |
| Prep Batch: 32135 | | QC Prepa | ration: 200 | 07-05-07 | | Prepare | ed By: MT | | |
| Parameter | Flag | | MDL Result | | Uni | ts | RI | | |
| GRO | | | < 0.459 | | ng/l | Kg | 1 | | |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | | |
| Trifluorotoluene (TFT) | r lag | 0.993 | mg/Kg | | Amount 1.00 | 99 | 73.2 - 12 | | |
| 4-Bromofluorobenzene (4-BF) | B) | 0.680 | mg/Kg | 1 | 1.00 | 68 | 51.9 - 110 | | |
| QC Batch: 37046 | 2 Batch: 37046 | Date Ana QC Prepa | | 07-05-07 07-05-07 | | | | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter | Batch: 37046 Flag | | mation: 20 MDL Result | | Uni | Prepar ts | red By: DS | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter | | | iration: 20 MDL | | Uni mg/l | Prepar ts | red By: DS | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO | Flag | QC Prepa | MDL Result <22.3 | 07-05-07 | mg/l Spike | Prepar ts Kg Percent | red By: DS RI 50 Recovery | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag | | | mation: 20 MDL Result | 07-05-07 | mg/l | Prepar ts Kg | red By: DS RI 50 Recovery Limits | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 | Flag Result | QC Prepa Units | MDL Result <22.3 Dilu 1 | 07-05-07 tion | mg/l Spike Amount | Prepar ts Kg Percent Recovery 136 Analyz | red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 | Flag Result 204 | QC Prepa Units mg/Kg Date Anal | MDL Result <22.3 Dilu 1 | 07-05-07 | mg/l Spike Amount | Prepar ts Kg Percent Recovery 136 | red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter | Flag Result 204 | QC Prepa Units mg/Kg Date Anal | Nation: 20 MDL Result <22.3 Dilu 1 Nu Nu Nu Nu Result | 07-05-07 tion | mg/l Spike Amount 150 Uni | Prepar ts Kg Percent Recovery 136 Analyz Prepare | red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT ed By: MT RJ | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter | Flag Result 204 Batch: 37060 | QC Prepa Units mg/Kg Date Anal | Nation: 20 MDL Result <22.3 Dilu 1 Nyzed: 20 ration: 20 MDL | 07-05-07 tion | mg/l Spike Amount 150 | Prepar ts Kg Percent Recovery 136 Analyz Prepare | red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT ed By: MT RI | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter GRO | Flag Result 204 Batch: 37060 Flag | QC Prepa Units mg/Kg Date Anal QC Prepa | Nation: 20 MDL Result <22.3 Dilu 1 Note: 20 ration: 20 MDL Result <0.459 | 07-05-07 tion 07-05-08 07-05-08 | mg/l Spike Amount 150 Uni mg/ Spike | Prepar ts Kg Percent Recovery 136 Analyz Prepare ts Kg Percent | ed By: MT ed By: MT ed By: MT ed By: MT | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter GRO Surrogate | Flag Result 204 Batch: 37060 | QC Prepa Units mg/Kg Date Anal QC Prepa Result | Nation: 20 MDL Result <22.3 Dilu 1 Nyzed: 20 ration: 20 MDL Result <0.459 Units | 07-05-07 tion 07-05-08 07-05-08 Dilution | mg/l Spike Amount 150 Uni mg/ Spike Amount | Prepar ts Kg Percent Recovery 136 Analyz Prepare ts Kg Percent Recovery | ed By: MT ed By: MT ed By: MT ed By: MT n RECOVERY Limits | | |
| QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 | Flag Result 204 Batch: 37060 Flag Flag | QC Prepa Units mg/Kg Date Anal QC Prepa | Nation: 20 MDL Result <22.3 Dilu 1 Note: 20 ration: 20 MDL Result <0.459 | 07-05-07 tion 07-05-08 07-05-08 | mg/l Spike Amount 150 Uni mg/ Spike | Prepar ts Kg Percent Recovery 136 Analyz Prepare ts Kg Percent | ed By: MT ed By: MT ed By: MT ed By: MT | | |

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| Report Date: May 14, State M SWD | 2007 | Work Order: 7050717 State M SWD | 6 | ber: 10 of 15 Buckeye,NM |
|-------------------------------------|-----------------|------------------------------------|---------|-----------------------------|
| Method Blank (1) | QC Batch: 37168 | | | |
| QC Batch: 37168 | | Date Analyzed: 2007-05-11 | Analyze | ed By: ER |
| Prep Batch: 32245 | | QC Preparation: 2007-05-11 | Prepare | ed By: ER |
| | | MDL | | |
| Parameter | Flag | Result | Units | RL |
| Chloride | | <0.140 | mg/Kg | 1 |

Laboratory Control Spike (LCS-1)

| QC Batch: | 37038 | Date Analyzed: | 2007-05-07 | Analyzed By: | MT |
|-------------|-------|-----------------|------------|--------------|----|
| Prep Batch: | 32135 | QC Preparation: | 2007-05-07 | Prepared By: | MT |

| | LCS | | | Spike | Matrix | | Rec. |
|--------------|--------|-------|------|--------|-----------|------|------------|
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limit |
| Benzene | 0.882 | mg/Kg | 1 | 1.00 | < 0.00333 | 88 | 76.3 - 117 |
| Toluene | 0.866 | mg/Kg | 1 | 1.00 | < 0.00372 | 87 | 77.3 - 114 |
| Ethylbenzene | 0.833 | mg/Kg | 1 | 1.00 | < 0.00206 | 83 | 75.4 - 115 |
| Xylene | 2.47 | mg/Kg | 1 | 3.00 | < 0.00259 | 82 | 73.2 - 112 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | LCSD | | | Spike | Matrix | | Rec. | | RPD |
|--------------|--------|-------|------|--------|-----------|------|------------|-----|-------|
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| Benzene | 0.918 | mg/Kg | 1 | 1.00 | < 0.00333 | 92 | 76.3 - 117 | 4 | 20 |
| Toluene | 0.906 | mg/Kg | 1 | 1.00 | < 0.00372 | 91 | 77.3 - 114 | 4 | 20 |
| Ethylbenzene | 0.875 | mg/Kg | 1 | 1.00 | < 0.00206 | 88 | 75.4 - 115 | õ | 20 |
| Xylene | 2.60 | mg/Kg | 1 | 3.00 | <0.00259 | 87 | 73.2 - 112 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.826 | 0.842 | mg/Kg | 1 | 1.00 | 83 | 84 | 74.5 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.747 | 0.766 | mg/Kg | 1 | 1.00 | 75 | 77 | 68.3 - 110 |

Laboratory Control Spike (LCS-1)

| QC Batch: | 37039 | Date Analyzed: | 2007-05-07 | Analyzed By: | MT |
|-------------|-------|-----------------|------------|--------------|----|
| Prep Batch: | 32135 | QC Preparation: | 2007-05-07 | Prepared By: | MT |

| | LCS | | | Spike | Matrix | | Rec. |
|--|--------|-------|----------------|--------|---------|------|------------|
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limit |
| GRO | 9.20 | mg/Kg | 1 | 10.0 | < 0.459 | 92 | 79.6 - 113 |
| GRO Percent recovery is based on th | | | 1 the spike | | | | 79.6 - |

| | LCSD | | | Spike | Matrix | | Rec. | | RPD |
|-------|--------|-------|------|--------|---------|------|------------|-----|-------|
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| GRO | 9.14 | mg/Kg | 1 | 10.0 | < 0.459 | 91 | 79.6 - 113 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| · · · · · · · · · · · · · · · · · · · | 2007 | | | Order: 7050 tate M SWE | | | | | Page Nu | | 11 of 18 eye,NM |
|---|--------------|---|--|---|---|---|--|--|--------------|--------------------------------|--|
| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spil Amo | | LCS Rec. | LCSI Rec. | | Rec. Limit |
| Trifluorotoluene (TFT) | | 1.00 | 0.950 | mg/Kg |] | 1.0 | | 100 | 95 | | 1 - 117 |
| 4-Bromofluorobenzene | (4-BFB) | 0.878 | 0.825 | mg/Kg |]. | 1.0 | () | 88 | 82 | 78. | 1 - 118 |
| Laboratory Control | Spike (LC | S-1) | | | | | | | | | |
| QC Batch: 37046 | | | Date Analy | | -05-07 | | | | | yzed Bj | |
| Prep Batch: 32141 | | (| QC Prepara | ation: 2007 | -05-07 | | | | Prep | ared By | : DS |
| | | LCS | | | | Spike | Ma | atrix | | | Rec. |
| Param | | Result | | | A | mount | | sult | Rec. | | Limit |
| DRO | | 292 | mg/ | Kg 1 | | 250 | <: | 22.3 | 117 | 54 | .3 - 149 |
| Percent recovery is base | ed on the sp | ike result. R | PD is base | ed on the spi | ke and | spike du | plicate | result | | | |
| | | LCSD | | Spil | | Matrix | | R | ec. | | RPD |
| Param | | Result | | Dil. Amou | | Result | Rec. | | mit | RPD | Limit |
| DRO | | | mg/Kg | 1 250 | | <22.3 | 103 | | - 149 | 12 | 20 |
| Percent recovery is base | ed on the sp | ike result. R | PD is base | ed on the spi | ke and | spike du | plicate | result | | | |
| | LCS | LCSD | | | | Spike | LC | S | LCSD | | R.ec. |
| Surrogate | Result | Result | Unit | | A | mount | Re | | Rec. | | Limit |
| n-Triacontane | 179 | 168 | mg/K | g 1 | | 150 | 11 | 9 | 112 | 33. | .3 - 164 |
| QC Batch: 37060 | | |)ate Analy 2C Prepara | | -05-08 -05-08 | | | | | zed By ared By: | |
| Prep Batch: 32152 | | T CS | | | | Colleg | እ <i>ለ</i> . | | | - | Dav |
| • | | LCS | - | te Dil | | Spike | | atrix | Ber. | - | Rec. |
| Param | | Result | t Uni | | | mount | Re | sult | Rec. |] | Limit |
| Param GRO | ed on the sp | Result 9.30 | t Uni mg/ | Kg 1 | A | mount 10.0 | Re <0 | esult 1.459 | 93 |] | Limit |
| Param GRO | ed on the sp | Result 9.30 vike result. R | t Uni mg/ | Kg 1 ed on the spi | A ke and | mount 10.0 spike du | Re <0 | esult 1.459 e result | 93 |] | Limit .6 - 113 |
| Param GRO Percent recovery is base Param | ed on the sp | Result 9.30 | t Uni mg/ PD is base | Kg 1 | A ke and ke l | mount 10.0 | Re <0 | esult 1.459 e result R | 93 |] | <u>Limit</u> . <u>6 - 113</u> RPD |
| Prep Batch: 32152 Param GRO Percent recovery is base Param GRO | ed on the sp | Result 9.30 pike result. R LCSD Result | t Uni mg/ PD is base | Kg 1 ed on the spi Spil | A ke and xe 1 int 1 | mount 10.0 spike du Matrix | Re <0 plicate | esult 1.459 e result R Li | 93 Lec. | 79 | Limit .6 - 113 |
| Param GRO Percent recovery is base Param | | Result 9.30 vike result. R LCSD Result 10.0 1 | t Uni mg/ tPD is base Units mg/Kg | Kg 1 ed on the spi Spil Dil. Amon 1 10. | A ke and xe 1 unt 1 0 < | mount 10.0 spike du Matrix Result <0.459 | Re <0 plicate Rec. 100 | esult 1.459 e result R Li 79.6 | 93 | 79 RPD | Limit .6 - 113 RPD Limit |
| Param GRO Percent recovery is base Param GRO Percent recovery is base | | Result 9.30 vike result. R LCSD Result 10.0 vike result. R LCS | t Uni PD is base Units mg/Kg PD is base LCSD | $\begin{array}{c c} Kg & 1 \\ \hline \\ ed \ on \ the \ spi \\ \hline \\ Dil. \ Amon \\ 1 \ 10. \\ ed \ on \ the \ spi \\ \end{array}$ | A ke and unt 1 0 < | mount 10.0 spike du Matrix Result <0.459 spike du Spi | Rec. 100 plicate ke | esult 1.459 e result R Li 79.6 e result LCS | 93 | 79 79 RPD 8 | Limit <u>6 - 113</u> RPD Limit <u>20</u> Rec. |
| Param GRO Percent recovery is base Param GRO Percent recovery is base Surrogate | ed on the sp | Result 9.30 vike result. R LCSD Result 10.0 vike result. R LCS Result | t Uni PD is base Units mg/Kg RPD is base LCSD Result | $\begin{array}{c c} Kg & 1 \\ \hline \\ ed \ on \ the \ spi \\ \hline \\ Dil. \ Amon \\ \hline 1 & 10. \\ ed \ on \ the \ spi \\ \hline \\ Units \end{array}$ | A ke and mt 1 0 < ike and Dil. | mount 10.0 spike du Matrix Result <0.459 spike du Spi Amo | Rec. 200 plicate 100 plicate ke unt | esult 1.459 e result R Li 79.6 e result LCS Rec. | 93 | 79 79 <u>RPD</u> 8 | Limit 6 - 113 RPD Limit 20 Rec. Limit |
| Param GRO Percent recovery is base Param GRO Percent recovery is base | ed on the sp | Result 9.30 vike result. R LCSD Result 10.0 vike result. R LCS | t Uni PD is base Units mg/Kg PD is base LCSD | $\begin{array}{c c} Kg & 1 \\ \hline \\ ed \ on \ the \ spi \\ \hline \\ Dil. \ Amon \\ 1 \ 10. \\ ed \ on \ the \ spi \\ \end{array}$ | A ke and unt 1 0 < | mount 10.0 spike du Matrix Result <0.459 spike du Spi | Rec. 20 plicate Rec. 100 plicate ke unt 00 | esult 1.459 e result R Li 79.6 e result LCS | 93 | 1 79 RPD 8 0 77 | Limit <u>6 - 113</u> RPD Limit <u>20</u> Rec. |

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| Report Date: May 14, 2007 State M SWD | | | | der: 705071 M SWD | 7 | |] | Page Ni | imber: Buck | 12 of 1 eye,NN |
|--|---------------|---------|------------------------|----------------------|-----------|-------------|-------------------------------|---------|------------------|-------------------|
| | L | 'IS | | | Spik | e N | latrix | | | Rec. |
| Param | Res | | Units | Dil. | Amou | | tesult | Rec | | Limit |
| Chloride | 12 | | mg/Kg | | 12.3 | | 0.140 | 97 | | 0 - 110 |
| | | | | | | | | | ······ | |
| Percent recovery is based on the s | spike result. | RPD 1 | s based o | n tne spike | and spike | auphcate | resurt. | | | |
| | LCSD | | | Spike | Matr | | $\mathbf{R}_{\boldsymbol{A}}$ | ec. | | RPD |
| Param | Result | Unit | | Amount | t Resu | lt Rec. | | nit | RPD | Limi |
| Chloride | 13.2 | mg/I | Kg 1 | 12.5 | < 0.1 | 40 106 | 90 - | 110 | 9 | 20 |
| Percent recovery is based on the s | spike result. | RPD i | s based o | n the spike | and spike | e duplicate | result. | | | |
| Matrix Spike (MS-1) Spike | d Sample: 1 | 23484 | | | | | | | | |
| QC Batch: 37038 | | Data | Analyzed: | 2007-05- | -07 | | | Anals | zed By | : MT |
| Prep Batch: 32135 | | | reparation | | - | | | | red By | |
| | | Q() 1 . | i cpai anoi | u. 2007-00 | -07 | | | ricpt | 100 Dj | |
| | MS | 5 | | | Spike | Ma | trix | | | Rec. |
| Param | Rest | ılt | Units | Dil. | Amount | Re | sult | Rec. | | Limit |
| Benzene | 0.78 | 34 | mg/Kg | 1 | 1.00 | <0.0 | 0333 | 78 | | .6 - 14 |
| Toluene | 0.87 | | mg/Kg | 1 | 1.00 | <0.0 | 0372 | 88 | 45 | .4 - 13 |
| Ethylbenzene | 0.91 | 17 | mg/Kg | 1 | 1.00 | <0.0 | 0206 | 92 | 4 | 8 - 141 |
| Xvlene | 3.0 | 3 | mg/Kg | 1 | 3.00 | 0.3 | 168 | 95 | 45 | .3 - 14 |
| Percent recovery is based on the s | spike result. | RPD | is based o | on the spike | and spike | e duplicate | e result. | | | |
| | MSD | | | Spike | Matri | x | R | ec. | | RPI |
| Param | Result | Unite | Dil. | Amount | Resul | t Rec. | Liı | mit | RPD | Limi |
| Benzene | 0.792 | mg/K | g 1 | 1.00 | < 0.003 | 33 79 | 39.6 | - 141 | 1 | 20 |
| Toluene | 0.887 | mg/K | g 1 | 1.00 | < 0.003 | 72 89 | 45.4 | - 138 | 1 | 20 |
| Ethylbenzene | 0.950 | mg/K | g 1 | 1.00 | < 0.002 | 06 95 | 48 - | 141 | 4 | 20 |
| Xylene | 2.83 | mg/K | <u>g 1</u> | 3.00 | 0.168 | 89 | 45.3 | - 142 | 7 | 20 |
| Percent recovery is based on the s | spike result. | RPD ; | is based o | on the spike | and spike | e duplicate | e result. | | | |
| | М | S | MSD | | | Spike | MS | MSI |) | Rec. |
| Surrogate | Res | ult : | Result | Units | Dil. | Amount | Rec. | Rec | | Limit |
| Trifluorotoluene (TFT) | 0.8 | 62 | 0.876 | mg/Kg | 1 | 1 | 86 | 88 | 51 | .5 - 13 |
| 4-Bromofluorobenzene (4-BFB) | 1.1 | 8 | 1.36 | mg/Kg | 1 | 1 | 118 | 136 | 52 | .2 - 13 |
| Matrix Spike (MS-1) Spike QC Batch: 37046 Prep Batch: 32141 | d Sample: 1 | Date | Analyzed Preparatio | | | | | | yzed B ared B | |
| n | M | | *1 • | | Spike | | atrix | | | Rec. |
| Param DRO | Res | | Units | Dil. | Amou | | esult | Rec. | | Limit |
| Percent recovery is based on the | 20 | | mg/Kg | 1 | 250 | | 22.3 | 106 | 30 | .1 - 16 |
| recent recovery is based on the | - | . KPD | is based o | - | | | | | | |
| | MSD | T1 | | Spike | Matri | | Re | | מממ | RPI |
| D | Result | Unit | is Dil. | Amount | | | | nit | RPD | Limi |
| Param DRO | 259 | mg/I | íg l | 250 | <22. | 3 104 | O * - | - 161 | 2 | 20 |

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| State M SWD | , 2007 | | | ler: 705071' M SWD | 7 | | Page Ni | umber: 1 Bucke | 3 01 13 eye,NM |
|--|---|---|---|---|---|---|---|---|--|
| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | | Rec. imit |
| n-Triacontane | 170 | 165 | mg/Kg | 1 | 150 | 113 | 110 | 33.: | 3 - 164 |
| Matrix Spike (MS-: QC Batch: 37168 Prep Batch: 32245 | 1) Spiked | Sample: 12 | 3492 Date Analyzed: QC Preparation | 2007-05- | | | | lyzed By: bared By: | |
| rrep baten. 52245 | | | QC r reparation | : 2007-05- | 11 | | r iej. | агео Бу. | En |
| | | MS | | | Spike | Matrio | | | Rec. |
| Param | | Resu | | Dil. | Amount | Result | | | imit |
| Chloride |] | 430 | mg/Kg | 50 | 625 | 242.78 | 6 30 | 75.0 | 6 - 117 |
| Percent recovery is ba | used on the sp | ike result. | RPD is based or | the spike a | and spike du | olicate res | ult. | | |
| | | MSD | | Spike | Matrix | | Rec. | | RPD |
| Param | | Result | Units Dil. | Amount | Result | Rec. | Limit | RPD | Limi |
| Chloride | 2 | 370 | mg/Kg 50 | 625 | 242.786 | 20 7 | 5.6 - 117 | 15 | 20 |
| | | | 101 | 1011 | 101- | - | n . | | |
| | | | ICVs | ICVs | ICVs | | Percent | | |
| Domost | | | | Hound | Dorcont | p | anovory | т |) oto |
| aram a | Flag | Units | True Conc. | Found Conc | Percent Becovery | | lecovery Limits | |)ate alvzed |
| | | Units ng/Kg | Conc. | Conc. | Recovery | | Limits | Ana | alvzed |
| Benzene | n | ng/Kg | _ | Conc. 0.0897 | | 8 | | An: 2007 | Date alvzed 7-05-0' 7-05-0' |
| Benzene Foluene | n | ng/Kg ng/Kg | Conc. 0.100 | Conc. | Recovery 90 | 3 | Limits 35 - 115 | An: 2007 2007 | alvzed 7-05-0 7-05-0 |
| Benzene Toluene Ethylbenzene | n n n | ng/Kg | Conc. 0.100 0.100 | Conc. 0.0897 0.0905 | Recovery 90 90 | 8 8 8 | Limits 85 - 115 85 - 115 | An: 2007 2007 2007 | alvzed 7-05-0 |
| Benzene Toluene Ethylbenzene Xylene Standard (CCV-1) | n n n | ng/Kg ng/Kg ng/Kg ng/Kg | Conc. 0.100 0.100 0.100 0.300 | Conc. 0.0897 0.0905 0.0869 0.259 | Recovery 90 90 87 86 | 8 8 8 | Limits 35 - 115 35 - 115 35 - 115 35 - 115 35 - 115 | An: 2007 2007 2007 2007 | alvzed 7-05-0 7-05-0 7-05-0 7-05-0 |
| Param 1 Benzene Toluene Ethylbenzene Xylene Standard (CCV-1) QC Batch: 37038 | n n n | ng/Kg ng/Kg ng/Kg ng/Kg | Conc. 0.100 0.100 0.300 Date Analyzed: | Conc. 0.0897 0.0905 0.0869 0.259 2007-05-0 | Recovery 90 90 87 86 | δ δ δ | Limits 35 - 115 35 - 115 35 - 115 35 - 115 35 - 115 Anal | An: 2007 2007 2007 | alvzed 7-05-0' 7-05-0' 7-05-0' 7-05-0' |
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| Benzene Foluene Ethylbenzene Kylene Standard (CCV-I) QC Batch: 37038 Param | n m n Flag | ng/Kg ng/Kg ng/Kg ng/Kg Units | Conc. 0.100 0.100 0.300 Date Analyzed: CCVs True Conc. | Conc. 0.0897 0.0905 0.0869 0.259 2007-05-0 CCVs Found Conc. | Recovery 90 90 87 86 7 7 CCVs Percent Recovery | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | Limits 35 - 115 35 - 115 35 - 115 35 - 115 Anal Percent Recovery Limits | An: 2007 2007 2007 2007 2007 2007 yzed By: I An: | alvzed 7-05-0 7-05-0 7-05-0 7-05-0 MT |
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¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| Report Dat State M SV | e: May 14, 2 VD | 007 | Wa | ork Order: 7050 State M SWD | 717 | Page Nı | mber: 14 of 15 Buckeye,NM |
|--|--|-------------------------|--|--|---|--|--|
| | | | ICVs True | ICVs Found | ICVs Percent | Percent Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | mg/Kg | 1.00 | 0.926 | 92 | 85 - 115 | 2007-05-07 |
| Standard | (CCV-1) | | | | | | |
| QC Batch: | . , | | Date Ana | dyzed: 2007-05 | Analy | vzed By: MT | |
| | | | CCVs | CCVs | CCVs | Percent. | |
| | | | Irue | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recoverv | Limits | Analyzed |
| GRO | 1 105 | mg/Kg | 1.00 | 0.937 | <u>94</u> | 85 - 115 | 2007-05-07 |
| | · | mg/ng | | 0.301 | | 00-110 | 2007-00-07 |
| Standard | (ICV-1) | | | | | | |
| QC Batch: | 37046 | | Date An | alyzed: 2007-0 | 5-07 | Ana | yzed By: DS |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| | | mark | 0-0 | 054 | 102 | 05 115 | 2007-05-0 |
| DRO | | mg/Kg | 250 | 254 | | 85 - 115 | |
| DRO Standard QC Batch: | | mg/Kg | | 234 alyzed: 2007-0 | | | lyzed By: DS |
| Standard | | mg/kg | Date An CCVs | alyzed: 2007-0 CCVs | 5-07 CCVs | Ana Percent | lyzed By: DS |
| Standard QC Batch: | 37046 | | Date An CCVs True | alyzed: 2007-0 CCVs Found | 5-07 CCVs Percent | Ana Percent Recovery | lyzed By: DS Date |
| Standard QC Batch: Param | | Units | Date An CCVs True Conc. | alyzed: 2007-0 CCVs Found Conc. | 5-07 CCVs Percent Recovery | Ana Percent Recovery Limits | lyzed By: DS Date Analyzed |
| Standard QC Batch: Param | 37046 | | Date An CCVs True | alyzed: 2007-0 CCVs Found | 5-07 CCVs Percent | Ana Percent Recovery | lyzed By: DS Date Analyzed |
| Standard QC Batch: Param DRO | 37046 Flag | Units | Date An CCVs True Conc. | alyzed: 2007-0 CCVs Found Conc. | 5-07 CCVs Percent Recovery | Ana Percent Recovery Limits | lyzed By: DS Date |
| Standard QC Batch: Param DRO Standard | 37046 Flag (ICV-1) | Units | Date An CCVs True Conc. | alyzed: 2007-0 CCVs Found Conc. 260 | 5-07 CCVs Percent Recovery 104 | Ana Percent Recovery Limits 85 - 115 | lyzed By: DS Date Analyzed |
| Standard QC Batch: Param DRO Standard | 37046 Flag (ICV-1) | Units | Date An CCVs True Conc. 250 Date Ana ICVs | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs | 5-07 CCVs Percent Recovery 104 5-08 ICVs | Ana Percent Recovery Limits 85 - 115 Anal Percent | lyzed By: DS Date <u>Analyzed</u> 2007-05-0' yzed By: MT |
| Standard QC Batch: Param DRO Standard QC Batch: | 37046 Flag (ICV-1) 37060 | Units mg/Kg | Date An CCVs True Conc. 250 Date Ana ICVs True | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found | 5-07 CCVs Percent Recovery 104 5-08 ICVs Percent | Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery | lyzed By: DS Date <u>Analyzed</u> 2007-05-0' yzed By: MT Date |
| Standard QC Batch: Param DRO Standard QC Batch: Param | 37046 Flag (ICV-1) | Units mg/Kg Units | Date An CCVs True Conc. 250 Date Ana ICVs True Conc. | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found Conc. | 5-07 CCVs Percent Recovery 104 5-08 ICVs Percent Recovery | Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits | lyzed By: DS Date <u>Analyzed</u> 2007-05-0 yzed By: MT Date Analyzed |
| Standard QC Batch: Param DRO Standard QC Batch: Param | 37046 Flag (ICV-1) 37060 | Units mg/Kg | Date An CCVs True Conc. 250 Date Ana ICVs True | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found | 5-07 CCVs Percent Recovery 104 5-08 ICVs Percent | Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery | lyzed By: DS Date <u>Analyzed</u> 2007-05-0 yzed By: MT Date Analyzed |
| Standard QC Batch: Param DRO Standard QC Batch: Param GRO | 37046 Flag (ICV-1) 37060 Flag | Units mg/Kg Units | Date An CCVs True Conc. 250 Date Ana ICVs True Conc. | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found Conc. | 5-07 CCVs Percent Recovery 104 5-08 ICVs Percent Recovery | Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits | lyzed By: DS Date <u>Analyzed</u> 2007-05-0 yzed By: MT Date Analyzed |
| Standard QC Batch: Param DRO Standard QC Batch: Param GRO Standard | 37046 Flag (ICV-1) 37060 Flag (CCV-1) | Units mg/Kg Units | Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00 | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found Conc. | 5-07 CCVs Percent Recovery 104 5-08 ICVs Percent Recovery 93 | Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 | lyzed By: DS Date <u>Analyzed</u> 2007-05-0' yzed By: MT Date <u>Analyzed</u> 2007-05-0 |
| Standard QC Batch: Param DRO Standard QC Batch: Param GRO Standard | 37046 Flag (ICV-1) 37060 Flag (CCV-1) | Units mg/Kg Units | Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00 | alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found Conc. 0.934 | 5-07 CCVs Percent Recovery 104 5-08 ICVs Percent Recovery 93 | Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 | lyzed By: DS Date <u>Analyzed</u> 2007-05-0' yzed By: MT Date <u>Analyzed</u> 2007-05-0 |
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|--------------------------|-----------------------|----------------|-----------------------|-------------------------------|-------------------------------------|-------------------------------|------------------------|
| Standard | (ICV-1) | | | | | | |
| QC Batch: | 37168 | | Date Ana | lyzed: 2007-05 | -11 | Anal | yzed By: ER. |
| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | mg/Kg | 12.5 | 12.2 | 98 | 90 - 110 | 2007-05-11 |
| Standard | (CCV-1) | | | | | | |
| QC Batch: | 37168 | | Date Ana | lyzed: 2007-03 | -1] | Anal | yzed By: ER |
| Damana | T21 | The star | CCVs True | CCVs Found | CCVs Percent | Percent Recovery | Date |
| Param Chloride | Flag | Units mg/Kg | Conc. 12.5 | <u>Conc.</u> 12.2 | Recovery 98 | Limits 90 - 110 | Analyzed 2007-05-11 |

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| 5 McCutcheon, Suite H 31 Paso, Texas 79932 | Tel (915) 585-3443 F.ax (915) 585-4944 1 (898) 588-3443 | 3976388 | 97 0397 | | | M.S.W | H-cle | VE SAMPLING | | AUONE ETAD EMIT | 5.3.07 11:14 | XI:11 202-7 | | | = | | ······································ | | Tinte: | Time: | Time: | 1030 | |
| а С | lnc. | Phone #: (505) | тех ж. (505-) 3 E-mailt | 116811. | | Project Name: | Sampler Signature: | PRESERVATIVE | | ice NªOH H ³ 20 [°] HNO [?] HCI | | ^ | | | | | | | Date: | Date: | ين، Dato: | M MOSON | everse side of C 0. C |
| • | FraceAnalysis , | nal | / | | | Ľđ | XIM Sa | <u></u> | nomA | # CONTA Volume / SOIL AIR AIR SOIL | 1 20 h | | 1 | 1. | | | | | Received by: | Received by: | Received at Laboratory by | X | Submittat of samples constitutes agreement to Texus and Conditions listed on rever |
| I | Trace | ternation | Mailano | BRUMSON | | | 2. in bulk | - h- m | | ш П | on und | 4-0(100) | 202200 # | 4002929 | # 003801 | | | | Time: | Time: | Time: | | preement to Tex |
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| 5701 Alserdeen Avenue. Lubbock, Texas 794 | ел (305) 7.94-1.295 Рах (306) 794-1.298 I 48001 3.78-1296 еглай Тахіф'яносала Ivs-s.com | Name | Address: (Street. 132 | Contact Person: | Invoice to: (If different from above) | Projoct #: | Project Location (including state): | | - | LAB # LAB USE) | 1334 KM SRI @ | | | | j R |)) | | | Relinquished by: | Relinquished by: | Relinguished by: | | Submittat of samples |

Summary Report

Cliff Brunson BBC International 1324 W. Marland Hobbs, NM, 88240

Report Date: June 4, 2007

Work Order: 7052524

Project Location: Buckeye,NM Project Name: State M SWD

| | | | Date | Time | Date |
|--------|-------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 125540 | TMW | water | 2007-05-23 | 15:02 | 2007-05-25 |

| | | ŀ | BTEX | | MTBE | TPH DRO | TPH GRO |
|---------------------|-------------------------------------|-----------|----------|-----------|--------|---------|---------|
| | Benzene Toluene Ethylbenzene Xylene | | | | | | GRO |
| Sample - Field Code | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) |
| 125540 - TMW | < 0.00100 | < 0.00100 | <0.00100 | < 0.00100 | | < 5.00 | <0.100 |

Sample: 125540 - TMW

| Param | Flag | Result | Units | RL |
|----------|------|-------------------------|-------|-------|
| Chloride | | 108 | mg/L | 0.500 |



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 F1. Worth, Texas 76132

4 800 • 378 • 1296 2 888 • 588 • 3443 3

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson BBC International 1324 W. Marland Hobbs, NM, 88240

Report Date: June 4, 2007

| Work Order: | 7052524 |
|-------------|---------|
| | |

Project Location: Buckeye,NM Project Name: State M SWD Project Number: State M SWD

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| | | | Date | Time | Date |
|--------|-------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 125540 | TMW | water | 2007-05-23 | 15:02 | 2007-05-25 |
| | | | | | |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

 ${\bf B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project State M SWD were received by TraceAnalysis, Inc. on 2007-05-25 and assigned to work order 7052524. Samples for work order 7052524 were received intact at a temperature of 4 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method |
|---------------|------------|
| BTEX | S 8021B |
| Chloride (IC) | E 300.0 |
| TPH DRO | Mod. 8015B |
| TPH GRO | S 8015B |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7052524 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

l

Analytical Report

Sample: 125540 - TMW

| Analysis: QC Batch: | BTEX | | Analytical Met Date Analyzed | | S 8021B 2007-05-31 | | Prep Meth Analyzed 1 | |
|------------------------|------------------|----------|---------------------------------|----------|-----------------------|---------|-------------------------|---------------|
| Prep Batch: | 37717 32684 | | Sample Prepar | | 2007-05-31 | | Prepared 1 | |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | r | Result | | Units | | Dilution | RL |
| Benzene | I 102 | <u> </u> | <0.00100 | | mg/L | | 1 | 0.00100 |
| Toluene | | | < 0.00100 | | mg/L | | 1 | 0.00100 |
| Ethylbenzene | | | < 0.00100 | • | mg/L | | 1 | 0.00100 |
| Xylene | | | < 0.00100 | | mg/L | ··· | 1 | 0.00100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilutio | n Amoui | nt Recovery | Limits |
| Trifluorotolue | ene (TFT) | 1 | 0.0585 | mg/L | 1 | 0.100 | 58 | 78.1 - 112 |
| 4-Bromofluor | obenzene (4-BFB) | | 0.0637 | mg/L | 1 | 0.100 | 64 | 63.1 - 120 |
| Sample: 12 | 5540 - TMW | | | | | | | |
| Analysis: | Chloride (IC) | | Analytica | Motho | d: E 300. | n | Prep | Aethod: N/A |
| QC Batch: | 37574 | | Date Ana | | 2007-0 | | | ed By: ER |
| Prep Batch: | 32563 | | Sample P | | | | | red By: ER |
| - | | | RL | • | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | \mathbf{RL} |
| Chloride | | | 108 | | mg/L | | 5 | 0.500 |
| Sample: 12 | 5540 - TMW | | | | | | | |
| Analysis: | TPH DRO | | Analytical l | Method: | Mod. 80 | 15B | Prep M | Aethod: N/A |
| QC Batch: | 37556 | | Date Analy | zed: | 2007-05- | 26 | Analy | ed By: TG |
| Prep Batch: | 32552 | | Sample Pre | paration | n: 2007-05- | 25 | Prepai | red By: TG |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| DRO | | | <5.00 | | mg/L | | 1 | 5.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Di | lution | Amount | Recovery | Limits |
| n-Triacontan | е | 19.5 | mg/L | | 1 | 15.0 | 130 | 40.7 - 174 |

Sample: 125540 - TMW

| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5030B |
|-------------|---------|---------------------|------------|--------------|---------|
| QC Batch: | 37718 | Date Analyzed: | 2007-05-31 | Analyzed By: | KB |
| Prep Batch: | 32684 | Sample Preparation: | 2007-05-31 | Prepared By: | KB |

¹Surrogate TFT out due to matrix interference. Sample was reran on 6/1/2007 to confirm matrix interference results.

| | | \mathbf{RL} | | | | | |
|-----------------------------|------------------|---------------|-------|----------|--------|----------|------------|
| Parameter Fla | g | Result | | Units | Di | lution | RL |
| GRO | ····· | < 0.100 | | mg/L | | 1 | 0.100 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | \mathbf{F} lag | Result | Units | Dilution | Amount | Recovery | Limits |
| Triffuorotoluene (TFT) | 2 | 0.0603 | mg/L | 1 | 0.100 | 60 | 72.8 - 107 |
| 4-Bromofluorobenzene (4-BFE | 3) ³ | 0.0644 | mg/L | 1 | 0.100 | 64 | 71 - 110 |

| Method Bla | nk (1) | QC Batch: 37556 | | | | | | |
|--------------------------|----------------|-----------------|-----------------------------------|--------------------------|--------|---------|----------------------------------|---|
| QC Batch: Prep Batch: | 37556 32552 | | Date Analyzed: QC Preparation: | 2007-05-26 2007-05-25 | | | nalyzed By: TG repared By: TG | |
| | | | M | IDL | | | | |
| Parameter | | Flag | Re | sult | | Units | RL | , |
| DRO | | | < | 1.06 | | mg/L | 5 | |
| | | | | | Spike | Percent | Recovery | |
| Surrogate | ·F | 'lag Result | Units I | Dilution | Amount | Recover | y Limits | |
| n-Triacontane | 3 | 26.0 | mg/L | 1 | 15.0 | 173 | 40.7 - 174 | 1 |

Method Blank (1) QC Batch: 37574

| QC Batch: | 37574 | | Date Analyzed: | 2007-05-25 | | Analyzed By: | \mathbf{ER} |
|-------------|-------|-----------------|-----------------|------------|-------|--------------|---------------|
| Prep Batch: | 32563 | | QC Preparation: | 2007-05-25 | | Prepared By: | \mathbf{ER} |
| | | | | | | | |
| | | | M | IDL | | | |
| Parameter | | \mathbf{Flag} | Re | sult | Units | | \mathbf{RL} |
| Chloride | | | <0 | .172 | mg/L | | 0.5 |

Method Blank (1) QC Batch: 37717

| QC Batch: 37717 Prep Batch: 32684 | | Date Anal QC Prepa | - | 07-05-31 07-05-31 | | ed By: KB ed By: KB | |
|--------------------------------------|------|-----------------------|----------|----------------------|--------|------------------------|------------|
| - | | | MI |)T. | | - | · |
| Parameter | Flag | | Resi | _ | Unit | s | RL |
| Benzene | | | < 0.0002 | 47 | mg/l | L | 0.001 |
| Toluene | | | < 0.0002 | 57 | mg/l | L | 0.001 |
| Ethylbenzene | | | < 0.0003 | 36 | mg/l | | 0.001 |
| Xylene | | | < 0.0002 | .18 | mg/. | | 0.001 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | 0.0905 | mg/L | 1 | 0.100 | 90 | 77.3 - 113 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0941 | mg/L | 1 | 0.100 | 94 | 77.2 - 116 |

²Surrogate TFT out due to matrix interference. Sample was reran on 6/1/2007 to confirm matrix interference results. ³Surrogate BFB out due to matrix interference. Sample was reran on 6/1/2007 to confirm matrix interference results.

| QC Batch: 37718 | | | Date An | * | 2007-05- | | | | lyzed By | |
|--|---------------|------------------------|-------------------|---------------------------------------|-------------------------|---------------------------|-------------|-----------------------------|----------------------|---------------|
| Prep Batch: 32684 | | • | QC Prep | paration: | 2007-05- | 31 | | Prep | oared By | KB |
| | | | | N | 4DL | | | | | |
| Parameter | Fla | .g | | | esult | | Unit | ts | | RL |
| GRO | | | | <0.0 | 0104 | | mg/ | L | | 0.1 |
| | | | | | | | Spike | Percent | R. | covery |
| Surrogate | | Flag | Result | Units | s Dib | ition | Amount | Recovery | | imits |
| Irifluorotoluene (TFT) | | | 0.0929 | -mg/I | | 1 | 0.100 | 93 | | 3 - 117 |
| 4-Bromofluorobenzene (| 4-BFB) | | 0.0938 | mg/I | | 1 | 0.100 | 94 | 75 | .8 - 110 |
| Laboratory Control S | Spike (LCS | 5-1) | | | | | | | | |
| QC Batch: 37556 | opino (Doc | • | Date An | alyzed: | 2007-05- | 26 | | Ana | lyzed By | : TG |
| Prep Batch: 32552 | | | QC Prej | paration: | 2007-05- | 25 | | Prep | bared By | : TG |
| | | LCS | 6 | | | Spike | Matri | x | | Rec. |
| Param | | Resu | lt | Units | Dil. | Amount | Resul | lt Rec. | | Limit |
| DRO | | 22.3 | 3 1 | ng/L | 1 | 25.0 | <1.0 | 6 89 | 56 | .9 - 128 |
| Param DRO | | LCSD Result 26.7 | Units | Dil. | Spike Amount 25.0 | Matrix Result <1.06 | Rec. | Rec. Limit 56.9 - 128 | <u>RPD</u> | RPD Limit |
| Percent recovery is base | ed on the sni | | mg/L RPD is l | · · · · · · · · · · · · · · · · · · · | | | | | 10 | 20 |
| | - | | | Subca on | une spine i | - | - | | | T. |
| Sumoroto | LCS | LCSD | | nits | T):1 | Spike | LCS | LCSD | | Rec. Limit |
| Surrogate n-Triacontane | Result | Result 24.9 | | nus ig/L | Dil. | Amount 15.0 | Rec. 153 | Rec. 166 | | .7 - 174 |
| Laboratory Control QC Batch: 37574 Prep Batch: 32563 | Spike (LCS | 5-1) | Date Ar QC Pre | nalyzed: paration: | 2007-05- 2007-05- | | | | dyzed By pared By | |
| | | LC | | | | Spike | Mat | | | Rec. |
| Param | | Res | | Units | Dil. | Amoun | | | | Limit |
| Chloride | | 13. | | mg/L | 1 | 12.5 | <0. | | J5 | 90 - 110 |
| Percent recovery is base | ed on the sp | ike result. | KPD is | based on | the spike | and spike | duplicate r | esuit. | | |
| | | LCSD | | | Spike | Matrix | : | Rec. | | RPD |
| | | $D_{}$ 14 | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| Param Chloride | | Result 12.1 | mg/L | 1 | 12.5 | < 0.172 | | 90 - 110 | 8 | 20 |

Laboratory Control Spike (LCS-1)

| QC Batch: Prep Batch: | Date Analyzed: QC Preparation: | Analyzed By: Prepared By: | |
|--------------------------|-----------------------------------|------------------------------|--|
| | | | |

| | LCS | | | Spike | Matrix | | Rec. |
|--------------|--------|-------|------|--------|------------|------|------------|
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limit |
| Benzene | 0.0934 | mg/L | 1 | 0.100 | < 0.000247 | 93 | 82 - 118 |
| Toluene | 0.0935 | mg/L | 1 | 0.100 | < 0.000257 | 94 | 81.4 - 118 |
| Ethylbenzene | 0.0942 | mg/L | 1 | 0.100 | < 0.000336 | 94 | 81.5 - 120 |
| Xylene | 0.291 | mg/L | 1 | 0.300 | < 0.000218 | 97 | 82.2 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | LCSD | | | Spike | Matrix | | Rec. | | RPD |
|--------------|--------|-----------------|------|--------|-------------------|------|------------------|-----|-------|
| Param | Result | Units | Dil. | Amount | \mathbf{Result} | Rec. | \mathbf{Limit} | RPD | Limit |
| Benzene | 0.0971 | mg/L | 1 | 0.100 | < 0.000247 | 97 | 82 - 118 | 4 | 20 |
| Toluene | 0.0971 | $\mathrm{mg/L}$ | 1 | 0.100 | < 0.000257 | 97 | 81.4 - 118 | 4 | 20 |
| Ethylbenzene | 0.101 | mg/L | 1 | 0.100 | < 0.000336 | 101 | 81.5 - 120 | .7 | 20 |
| Xylene | 0.306 | mg/L | 1 | 0.300 | < 0.000218 | 102 | 82.2 - 121 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | LCS | LCSD | | | Spike | LCS | LCSD | Rec. |
|------------------------------|--------|--------|-------|------|--------|------|------|------------------|
| Surrogate | Result | Result | Units | Dil. | Amount | Rec. | Rec. | \mathbf{Limit} |
| Trifluorotoluene (TFT) | 0.0815 | 0.0852 | mg/L | 1 | 0.100 | 82 | 85 | 75.7 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.0925 | 0.0941 | mg/L | 1 | 0.100 | 92 | 94 | 75.8 - 110 |

Laboratory Control Spike (LCS-1)

| QC Batch: | 37718 | Date Analyzed: | 2007-05-31 | Analyzed By: | KB |
|-------------|-------|-----------------|------------|--------------|-------------|
| Prep Batch: | 32684 | QC Preparation: | 2007-05-31 | Prepared By: | $_{\rm KB}$ |

| | LCS | | | Spike | Matrix | | Rec. |
|-------|-------------------------|-------|------|-------------------------|-------------------|------|------------------|
| Param | Result | Units | Dil. | Amount | \mathbf{Result} | Rec. | \mathbf{Limit} |
| GRO | 1.02 | mg/L | 1 | 1.00 | < 0.0104 | 102 | 72 - 131 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | LCSD | | | Spike | Matrix | | Rec. | | RPD |
|-------|--------|-------|------|--------|----------|------|----------|-----|-------|
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| GRO | 1.03 | mg/L | 1 | 1.00 | < 0.0104 | 103 | 72 - 131 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | LCS | LCSD | | | Spike | LCS | LCSD | Rec. |
|------------------------------|--------|-------------------|-------|------|--------|------|------|------------|
| Surrogate | Result | \mathbf{Result} | Units | Dil. | Amount | Rec. | Rec. | Limit |
| Trifluorotoluene (TFT) | 0.101 | 0.104 | mg/L | 1 | 0.100 | 101 | 104 | 72.1 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 0.101 | 0.103 | mg/L | 1 | 0.100 | 101 | 103 | 80.9 - 114 |

Matrix Spike (MS-1) Spiked Sample: 125540

| QC Batch: | 37556 | Date Analyzed: | 2007-05-26 | Analyzed By: | \mathbf{TG} |
|-------------|-------|-----------------|------------|--------------|------------------------|
| Prep Batch: | 32552 | QC Preparation: | 2007-05-25 | Prepared By: | $\mathbf{T}\mathbf{G}$ |

| Report Date: June 4, 200 State M SWD |)7 | | | der: 705252 M SWD | 24 | | | Page | Number Buck | r: 7 01 9 æye,NM |
|---|---------------------------------------|---|---|--|---|--|---|---|--|--|
| Param | · · · · · · · · · · · · · · · · · · · | MS Result | Units | Dil. | Spike Amount | Matr Resu | | Rec. | | Rec. .imit |
| DRO | | 17.5 | mg/L | 1 | 25.0 | <1.0 |)6 | 70 | 61.9 | - 112.2 |
| Percent recovery is based | on the spi | ike result. RPD | is based on | the spike a | and spike d | uplicate | result | | | |
| | | | | - | | -, | | | | |
| | | MSD | ю.; | Spike | Matrix | n | | ec. | nnn | RPD |
| Param | | Result Units | | Amount | Result | Rec. | | mit | RPD | Limi |
| DRO | | 17.7 mg/I | | 25.0 | <1.06 | 71 | | 112.2 | 1 | 20 |
| Percent recovery is based | on the spi | ike result. RPD | is based on | the spike a | and spike d | uplicate | result | | | |
| | MS | MSD | | | Spike | М | S | MSD | | Rec. |
| Surrogate | Result | Result | Units | Dil. | Amount | Re | c. | Rec. | | Limit |
| n-Triacontane | 20.9 | 21.2 | mg/L | 1 | 15 | 13 | 9 | 141 | 40 | .7 - 174 |
| QC Batch: 37574 Prep Batch: 32563 | | | Analyzed: Preparation | 2007-05- : 2007-05- | | | | | yzed By ared By | |
| | | MS | | | Spike | | latrix | | | Rec. |
| Param | | Result | Units | Dil. | Amount | | esult | Ree | | Limit |
| Chloride | | 125000 | mg/L | 5000 | 62500 | 39 | 397.4 | 13 | 7 | 10 - 18 |
| | | - | is based off | the spike | and spike o | upncate | resur | | | |
| Param | | MSD Result Uni | ts Dil. | Spike Amount | Matrix Result | Rec. | 1 | Rec. Limit | RPD | Limi |
| Chloride | | MSD Result Uni 111000 mg/ | ts Dil. 'L 5000 | Spike Amount 62500 | Matrix Result 39397.4 | Rec. | 1 10 | Rec. Limit) - 188 | RPD 12 | |
| Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 | on the sp | MSD Result Uni 111000 mg/ ike result. RPD Sample: 125592 Date | ts Dil. 'L 5000 | Spike Amount 62500 the spike 2007-05 | Matrix Result 39397.4 and spike o | Rec. | 1 10 | Rec. Limit) - 188 t. Anal | | Limi 20 7: KB |
| Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 | on the sp | MSD <u>Result Uni</u> 111000 mg/ ike result. RPD Sample: 125592 Date QC I | ts Dil. L 5000 is based on Analyzed: | Spike Amount 62500 the spike 2007-05 | Matrix Result 39397.4 and spike o -31 -31 | Rec. 1 114 luplicate | I 10 result | Rec. Limit) - 188 t. Anal | 12 yzed By | Limi 20 7: KB 7: KB |
| Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 | on the sp | MSD Result Uni 111000 mg/ ike result. RPD Sample: 125592 Date | ts Dil. L 5000 is based on Analyzed: | Spike Amount 62500 the spike 2007-05 | Matrix Result 39397.4 and spike o | Rec. 1114 luplicate | 1 10 | Rec. Limit) - 188 t. Anal | 12 yzed By ared By | Limi 20 7: KB |
| Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 | on the sp Spiked | MSD <u>Result</u> <u>Uni</u> <u>111000</u> <u>mg/</u> ike result. RPD Sample: 125592 Date QC I MS | ts Dil. <u>L 5000</u> is based on Analyzed: Preparation | Spike Amount 62500 the spike 2007-05 : 2007-05 | Matrix Result 39397.4 and spike of -31 -31 Spike | Rec. 1114 luplicate Mat. R | I result | Rec. Limit) - 188 t. Anal Prep | 12 yzed By ared By | Limi 20 7: KB 7: KB 7: KB Rec. Limit |
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| State M SWI | : June 4, 200 D | | | | rder: 7052 e M SWD | 524 | · | | | mber: 8 of 9 Buckeye,NM |
|---------------|--------------------|---------|--------|-------------|-----------------------|------|--------|---------|--------|----------------------------|
| natrix spikes | continued | | MS | MSD | | | Spike | MS | MSD | Rec. |
| Surrogate | | | Result | Result | Units | Dil. | Amount | Rec. | Rec. | Limit |
| | obenzene (4- | BFB) 78 | 0.677 | 0.798 | mg/L | 10 | 1 | 68 | 80 | 92.3 - 102 |
| Standard (1 | (CV-1) | | | | | | | | | |
| QC Batch: | 37556 | | Date | Analyzed: | 2007-05 | -26 | | | Analyz | ed By: TG |
| | | | ICVs | IC | CVs | IC | Vs | Percen | ıt | |
| | | | True | | und | Perc | cent | Recove | ry | Date |
| Param | Flag | Units | Conc. | | onc. | Reco | very | Limit | | Analyzed |
| DRO | | mg/L | 250 | 2 | .33 | 9 | 3 | 85 - 11 | 5 | 2007-05-20 |
| Standard (| CCV-1) | | | | | | | | | |
| QC Batch: | 37556 | | Date | e Analyzed: | 2007-05 | -26 | | | Analyz | ed By: TG |
| | | | CCVs | С | CVs | CC | Vs | Percer | ıt | |
| | | | True | Fo | ound | Perc | | Recove | - | Date |
| Param | Flag | Units | Conc. | | onc. | Reco | | Limit | | Analyzed |
| DRO | | mg/L | 250 | | 226 | 9 | 0 | 85 - 11 | .5 | 2007-05-20 |
| Standard (J | | | D (| 4 , , | | | | | A 1 | |
| QC Batch: | 37574 | | Date | e Analyzed | : 2007-05 | 0-25 | | | Analyz | ed By: ER |
| | | | ICVs | s] | CVs | | CVs | Percei | nt | |
| _ | | | True | | ound | | rcent | Recove | - | Date |
| Param | Flag | Units | Conc | | Conc. | | overy | Limit | | Analyzed |
| Chloride | - • | mg/L | 12.5 | | 12.3 | | 98 | 90 - 1 | 10 | 2007-05-2 |
| Standard (| CCV-1) | | | | | | | | | |
| QC Batch: | 37574 | | Dat | e Analyzed | : 2007-03 | 5-25 | | | Analyz | ed By: ER |
| | | | CCV | s (| CCVs | C | CVs | Perce | nt | |
| | | | True | | Found | | rcent | Recove | | Date |
| Param | Flag | Units | Conc | | Conc. | | overy | Limit | | Analyzed |
| Chloride | · | mg/L | 12.5 |) | 12.8 | 1 | 102 | 90 - 1 | 10 | 2007-05-2 |
| | | | | | | | | | | |
| Standard (| ICV-1) | | | | | | | | | |

⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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Report Date: June 4, 2007 State M SWD

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0981 | 98 | 85 - 115 | 2007-05-31 |
| Toluene | | mg/L | 0.100 | 0.0985 | 98 | 85 - 115 | 2007-05-31 |
| Ethylbenzene | | mg/L | 0.100 | 0.0998 | 100 | 85 - 115 | 2007-05-31 |
| Xylene | | mg/L | 0.300 | 0.307 | 102 | 85 - 115 | 2007-05-31 |

Standard (CCV-1)

| QC Batch: 37 | 717 | | Date Analy | zed: 2007-05-3 | 31 | Anal | yzed By: KB |
|--------------|------|-------|------------|----------------|----------|----------|-------------|
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Benzene | | mg/L | 0.100 | 0.0992 | 99 | 85 - 115 | 2007-05-31 |
| Toluene | | mg/L | 0.100 | 0.101 | 101 | 85 - 115 | 2007-05-31 |
| Ethylbenzene | | mg/L | 0.100 | 0.102 | 102 | 85 - 115 | 2007-05-31 |
| Xylene | | mg/L | 0.300 | 0.312 | 104 | 85 - 115 | 2007-05-31 |

Standard (ICV-1)

| QC Batch: | 37718 | | Date An | alyzed: 2007-0 |)5-31 | Anal | lyzed By: KB |
|-----------|-------|-------|---------|----------------|----------|----------|--------------|
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | mg/L | 1.00 | 0.997 | 100 | 85 - 115 | 2007-05-31 |

Standard (CCV-1)

| QC Batch: | 37718 | | Date An | alyzed: 2007-0 | 5-31 | Ana | lyzed By: KB |
|-----------|-------|--------|--------------|----------------|-----------------|---------------------|--------------|
| | | | CCVs True | CCVs Found | CCVs Percent | Percent Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | m mg/L | 1.00 | 1.03 | 103 | 85 - 115 | 2007-05-31 |

| | | | | | , | | LAE | LAB Order ID # | , # 01 | 705 | 25 | 3 | 4 | | 1 | | | Page | | / of | | |
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| S, Inc. 6701 Aberdeen Avenue, Suite 9 5002 Basin Street, Suite A1 200 East Sunset Rd. Suite E 6015 Harris Pkwy. Suite 110 S, Inc. Lubbock, Texas 79424 Tel (432) 689-6301 Tel (915) 585-3443 Tel (817) 201-5260 Fax (806) 794-1298 Fax (432) 689-6313 Tel (815) 585-3443 Tel (817) 201-5260 s.com 1 (800) 378-1296 Fax (432) 689-6313 1 (888) 588-3443 Tel (817) 201-5260 | Phone #: (S'OT) 3976389 ANALYSIS REQUEST | | 6p |) 26 H 9 6010 | \ 952 \ 952 \ 954 \ 1 Сс ББ 26 H 26 H 26 H | 208 208 2520C 2952⊄ 297 CL 897 CC 297 CL 897 CC 297 CL 297 CL 297 CC 297 CL 297 CC 297 CC 20 | MATRIX METHOD SAMPLING CO / D | от Е К | | V 5/23 3.0 | | | | | eived by: Date: Time: LAB USE REMARKS: ONI Y | Date: Time: | | $ \boxed{\bigcirc \text{Date: Time:}} \qquad \boxed{\text{Temp } 4^{\circ}\text{C}} \qquad \\ \boxed{\bigcirc \text{D}} \sim 5 \& \mathcal{Z} [1], \forall \bigcirc \mathcal{M} \qquad \\ \\ \text{Log-in-Review} \qquad \\ \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline |
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| L | Company Name: BBC | Address: (Street, City, Zip) | Contact Person: | Invoice to: | (ir different from above) Project #: | Project Location (including state): | | LAB# LABUSE | 1 ONLY 1 1 5 5-11 1 1 10 1 1/ | UNINI UNCOLO | | | | | ished by: | n an | Keiinquisnea by: | Relinquished by: |

Summary Report

Cliff Brunson BBC International 1324 W. Marland Hobbs, NM, 88240

Report Date: June 20, 2007

Work Order: 7052526

Project Location: Buckeye,NM Project Name: State M SWD

| | | | Date | Time | Date |
|--------|-------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 125556 | SB2 @ 1' | soil | 2007-05-22 | 08:05 | 2007-05-25 |
| 125557 | SB2 @ 3' | soil | 2007-05-22 | 08:06 | 2007-05-25 |
| 125558 | SB2 @ 5' | soil | 2007-05-22 | 08:07 | 2007-05-25 |
| 125559 | SB2 @ 30' | soil | 2007-05-22 | 09:04 | 2007-05-25 |
| 125560 | - SB2 @ 50' | soil | 2007-05-22 | 10:45 | 2007-05-25 |
| 125561 | SB3 @ 1' | soil | 2007-05-22 | 11:06 | 2007-05-25 |
| 125562 | SB3 @ 3' | soil | 2007-05-22 | 11:07 | 2007-05-25 |
| 125563 | SB3 @ 5' | soil | 2007-05-22 | 11:08 | 2007-05-25 |
| 125564 | SB3 @ 25' | soil | 2007-05-22 | 11:40 | 2007-05-25 |
| 125565 | SB3 @ 39' | soil | 2007-05-22 | 12:14 | 2007-05-25 |
| 125566 | SB4 @ 1' | soil | 2007-05-22 | 13:20 | 2007-05-25 |
| 125567 | SB4 @ 3' | soil | 2007-05-22 | 13:21 | 2007-05-25 |
| 125568 | SB4 @ 5' | soil | 2007-05-22 | 13:22 | 2007-05-25 |
| 125569 | SB4 @ 20' | soil | 2007-05-22 | 13:48 | 2007-05-25 |
| 125570 | SB4 @ 39' | soil | 2007-05-22 | 14:30 | 2007-05-25 |
| 125571 | SB5 @ 1' | soil | 2007-05-22 | 14:57 | 2007-05-25 |
| 125572 | SB5 @ 3' | soil | 2007-05-22 | 14:58 | 2007-05-25 |
| 125573 | SB5 @ 5' | soil | 2007-05-22 | 15:00 | 2007-05-25 |
| 125574 | SB5 @ 20' | soil | 2007-05-22 | 15:37 | 2007-05-25 |
| 125575 | SB5 @ 35' | soil | 2007-05-22 | 16:00 | 2007-05-25 |
| 125576 | SB6 @ 1' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125577 | SB6 @ 3' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125578 | SB6 @ 5' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125579 | SB6 @ 15' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125580 | SB6 @ 35' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125581 | SB7 @ 1' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125582 | SB7 @ 3' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125583 | SB7 @ 5' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125584 | SB7 @ 20' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125585 | SB7 @ 39' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125586 | SB8 @ 1' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125587 | SB8 @ 3' | soil | 2007-05-22 | 08:05 | 2007-05-25 |
| 125588 | SB8 @ 5' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125589 | SB8 @ 20' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125590 | SB8 @ 39' | soil | 2007-05-23 | 00:00 | 2007-05-25 |

Report Date: June 20, 2007

Page Number: 2 of 6 Buckeye,NM

| | |] | BTEX | | MTBE | TPH DRO | TPH GRO |
|---------------------|----------|----------|--------------|----------|---------|---------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylene | MTBE | DRO | GRO |
| Sample - Field Code | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| 125556 - SB2 @ 1' | < 0.200 | < 0.200 | 2.56 | 11.5 | | 1430 | 657 |
| 125557 - SB2 @ 3' | < 0.0100 | < 0.0100 | 0.0382 | 0.210 | | 288 | 45.4 |
| 125558 - SB2 @ 5' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125559 - SB2 @ 30' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125560 - SB2 @ 50' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125561 - SB3 @ 1' | < 0.200 | < 0.200 | 2.28 | 3.17 | | 2710 | 270 |
| 125562 - SB3 @ 3' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | 2.26 |
| 125563 - SB3 @ 5' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | 1.11 |
| 125564 - SB3 @ 25' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125565 - SB3 @ 39' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125566 - SB4 @ 1' | < 0.0100 | < 0.0100 | < 0.0100 | 0.0408 | | <50.0 | 16.4 |
| 125567 - SB4 @ 3' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125568 - SB4 @ 5' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125569 - SB4 @ 20' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125570 - SB4 @ 39' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | ļ | <50.0 | <1.00 |
| 125571 - SB5 @ 1' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125572 - SB5 @ 3' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125573 - SB5 @ 5' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125574 - SB5 @ 20' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125575 - SB5 @ 35' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125576 - SB6 @ 1' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | < 50.0 | <1.00 |
| 125577 - SB6 @ 3' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125578 - SB6 @ 5' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | 1300 | <1.00 |
| 125579 - SB6 @ 15' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125580 - SB6 @ 35' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | 1 | <50.0 | <1.00 |
| 125581 - SB7 @ 1' | 0.0717 | 0.0699 | 0.157 | 0.244 | | 814 | 21.1 |
| 125582 - SB7 @ 3' | < 0.0100 | < 0.0100 | < 0.0100 | 0.478 | | 4380 | 73.9 |
| 125583 - SB7 @ 5' | 1.24 | < 0.200 | 0.948 | 4.05 | | 16700 | 377 |
| 125584 - SB7 @ 20' | 6.46 | 0.770 | 21.4 | 40.0 | | 6620 | 1010 |
| 125585 - SB7 @ 39' | 73.8 | 46.5 | 170 | 269 | | 21600 | 8800 |
| 125586 - SB8 @ 1' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | 5.65 |
| 125587 - SB8 @ 3' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125588 - SB8 @ 5' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |
| 125589 - SB8 @ 20' | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 | | <50.0 | <1.00 |
| 125590 - SB8 @ 39' | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | | <50.0 | <1.00 |

Sample: 125556 - SB2 @ 1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 2020 | mg/Kg | 1.00 |

Sample: 125557 - SB2 @ 3'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 402 | mg/Kg | 1.00 |

Sample: 125558 - SB2 @ 5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 306 | mg/Kg | 1.00 |

| Report Date: June 20, 2007 | | Work Order: 7052526 Page Nu State M SWD | | |
|---|-----------------------|---|----------------|------------|
| Sample: 125559 - S | SB2 @ 30; | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 2060 | mg/Kg | 1.00 |
| | | | | |
| Sample: 125560 - S | | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 43.5 | mg/Kg | 1.00 |
| Sample: 125561 - S | SB3 @ 1' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 2720 | mg/Kg | 1.00 |
| Sample: 125562 - S | 5B3 @ 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1270 | mg/Kg | 1.00 |
| | Flag | Result 1400 | Units mg/Kg | RL 1.00 |
| Sample: 125563 - S Param Chloride | | | | |
| Sample: 125564 - 5 | SB3 @ 25 [°] | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 2530 | mg/Kg | 1.00 |
| Sample: 125565 - 5 | SB3 © 39' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 328 | mg/Kg | 1.00 |
| | | | | |
| Sample: 125566 - 5 | SB4 @ 1' | | | |
| | | Result | Units | BI. |
| Sample: 125566 - S Param Chloride | 5B4 @ 1' Flag | Result 120 | Units mg/Kg | RL 1.00 |
| Param | Flag | | | |
| Param Chloride | Flag | | | |

| Report Date: June 20, 2007 | | Work Order: 7052526 State M SWD | • | | |
|---------------------------------------|-----------------------|------------------------------------|----------------|---------------------|--|
| Sample: 125568 - | SB4 @ 5' | | | | |
| Param | Flag | Result | Units | \mathbf{RL} | |
| Chloride | | 238 | mg/Kg | 1.00 | |
| Sample: 125569 - | SB4 @ 20' | | | | |
| Param | Flag | Result | Units | \mathbf{RL} | |
| Chloride | | 3310 | mg/Kg | 1.00 | |
| Sample: 125570 - | SB4 @ 39' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 144 | mg/Kg | 1.00 | |
| Sample: 125571 - | SB5 @ 1' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 1210 | mg/Kg | 1.00 | |
| Sample: 125572 - Param Chloride | SB5 @ 3' Flag | Result 882 | Units mg/Kg | RL 1.00 | |
| Sample: 125573 - | SB5 @ 5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 1490 | mg/Kg | 1.00 | |
| Sample: 125574 - | SB5 @ 20' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 2080 | mg/Kg | 1.00 | |
| Sample: 125575 - | SB5 @ 35' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 49.1 | mg/Kg | 1.00 | |
| Sample: 125576 - | · SB6 @ 1' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 414 | mg/Kg | 1.00 | |

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| Report Date: June 20, 2007 | | Work Order: 7052526 State M SWD | Page N | umber: 5 of 6 Buckeye,NM |
|--|---------------------------|------------------------------------|----------------|-----------------------------|
| Sample: 125577 - | SB6 @ 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 243 | mg/Kg | 1.00 |
| Sample: 125578 - | SB6 @ 5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | 0 | 705 | mg/Kg | 1.00 |
| Sample: 125579 - | SB6 @ 15' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1460 | mg/Kg | 1.00 |
| Sample: 125580 - | SB6 @ 35' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 461 | mg/Kg | 1.00 |
| Sample: 125581 - Param Chloride | Flag | Result 42.8 | Units mg/Kg | |
| Param Chloride | Flag | | | RL 1.00 |
| Sample: 125582 - | SB7 @ 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | - 0 | 41.6 | mg/Kg | 1.00 |
| | | | | |
| Sample: 125583 - | SB7 @ 5' | | | |
| - | | Result | Units | RL |
| Sample: 125583 - Param Chloride | SB7 @ 5' Flag | Result 210 | Units mg/Kg | |
| Param Chloride | Flag | | | |
| Param Chloride Sample: 125584 - | Flag SB7 @ 20' | 210 | mg/Kg | RL 1.00 |
| Param Chloride Sample: 125584 - | Flag | | | 1.00 RL |
| Param Chloride Sample: 125584 - Param | Flag SB7 @ 20' Flag | 210 Result | mg/Kg Units | 1.00 RL |
| Param Chloride Sample: 125584 - Param Chloride | Flag SB7 @ 20' Flag | 210 Result | mg/Kg Units | |

| Report Date: June.20, 2007 | | Work Order: 7052526 State M SWD | Pag | ge Number: 6 of 6 Buckeye,NM |
|---------------------------------------|------------------|------------------------------------|----------------|---------------------------------|
| Sample: 125586 - | SB8 @ 1' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 10800 | mg/Kg | 1.00 |
| Sample: 125587 - | SB8 @ 3' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 290 | mg/Kg | 1.00 |
| Sample: 125588 - Param Chloride | SB8 @ 5' Flag | Result 303 | Units mg/Kg | RL 1.00 |
| Sample: 125589 - | SB8 @ 20' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 2190 | mg/Kg | 1.00 |
| Sample: 125590 - | SB8 @ 39' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 263 | mg/Kg | 1.00 |



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson **BBC** International 1324 W. Marland Hobbs, NM, 88240

Report Date: June 20, 2007

| Work Order: | 7052526 |
|-------------|---------|
| | |

Project Location: Buckeye.NM State M SWD Project Name: Project Number: State M SWD

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| | | | Date | Time | Date |
|--------|-------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 125556 | SB2 @ 1' | soil | 2007-05-22 | 08:05 | 2007-05-25 |
| 125557 | SB2 @ 3 | soil | 2007-05-22 | 08:06 | 2007-05-25 |
| 125558 | SB2 @ 5' | soil | 2007-05-22 | 08:07 | 2007-05-25 |
| 125559 | SB2 @ 30 | soil | 2007-05-22 | 09:04 | 2007-05-25 |
| 125560 | SB2 @ 50' | soil | 2007-05-22 | 10:45 | 2007-05-25 |
| 125561 | SB3 @ 1 | soil | 2007-05-22 | 11:06 | 2007-05-25 |
| 125562 | SB3 @ 3' | soil | 2007-05-22 | 11:07 | 2007-05-25 |
| 125563 | SB3 @ 5' | soil | 2007-05-22 | 11:08 | 2007-05-25 |
| 125564 | SB3 @ 25' | soil | 2007-05-22 | 11:40 | 2007-05-25 |
| 125565 | SB3 @ 39 | soil | 2007-05-22 | 12:14 | 2007-05-25 |
| 125366 | SB4 @ 1' | soil | 2007-05-22 | 13:20 | 2007-05-25 |
| 125567 | SB4 @ 3' | soil | 2007-05-22 | 13:21 | 2007-05-25 |
| 125568 | SB4 @ 5' | soil | 2007-05-22 | 13:22 | 2007-05-25 |
| 125569 | SB4 @ 20 | soil | 2007-05-22 | 13:48 | 2007-05-25 |
| 125570 | SB4 @ 39 | soil | 2007-05-22 | 14:30 | 2007-05-25 |
| 125571 | SB5 @ 1' | soil | 2007-05-22 | 14:57 | 2007-05-25 |
| 125572 | SB5 @ 3' | soil | 2007-05-22 | 14:58 | 2007-05-25 |
| 125573 | SB5 @ 5' | soil | 2007-05-22 | 15:00 | 2007-05-25 |
| 125574 | SB5 @ 20' | soil | 2007-05-22 | 15:37 | 2007-05-25 |
| 125575 | SB5 @ 35' | soil | 2007-05-22 | 16:00 | 2007-05-25 |
| 125576 | SB6 @ 1` | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125577 | SB6 @ 3' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125578 | SB6 @ 5' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125579 | SB6 @ 15' | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125580 | SB6 @ 35 | soil | 2007-05-22 | 00:00 | 2007-05-25 |
| 125581 | SB7 @ 1' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125582 | SB7 @ 3' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125583 | SB7 @ 5' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125584 | SB7 @ 20' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125585 | SB7 @ 39' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125580 | SB8 @ 1' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125587 | SB8 @ 3 | soil | 2007-05-22 | 08:05 | 2007-05-25 |

| | | | Date | Time | Date |
|--------|-------------|--------|------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 125588 | SB8 @ 5' | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125589 | SB8 @ 20 | soil | 2007-05-23 | 00:00 | 2007-05-25 |
| 125590 | SB8 @ 39 | soil | 2007-05-23 | 00:00 | 2007-05-25 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 71 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

 $\, E\,$ - The sample contains less than wen times the concentration found in the method blank.

Case Narrative

Samples for project State M SWD were received by TraceAnalysis, Inc. on 2007-05-25 and assigned to work order 7052526. Samples for work order 7052526 were received intact at a temperature of 4 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method |
|---------------|------------|
| BTEX | S 8021B |
| Chloride (IC) | E 300.0 |
| TPH DRO | Mod. 8015B |
| TPH GRO | S 8015E |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7052526 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 125556 - SB2 @ 1'

| Analysis:BTEXQC Batch:37548Prep Batch:32548 | | | Analytical M Date Analyze Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analyzed I Prepared I | By: MT |
|---|-------|------|---|-------|-------------------------------------|--------|---------------------------------------|------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | Di | lution | RL |
| Benzene | 1 | | < 0.200 | | mg/Kg | | 20 | 0.0100 |
| Toluene | | | < 0.200 | | mg/Kg | | 20 | 0.0100 |
| Ethylbenzene | | | 2.56 | | mg/Kg | | 20 | 0.0100 |
| Xylene | | | 11.5 | | mg/Kg | | 20 | 0.0100 |
| - | | | . . | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.563 | mg/Kg | 20 | 1.00 | 56 | 52.1 - 131 |
| 4-Bromofluorobenzene (4 | -BFB) | | 1.24 | mg/Kg | 20 | 1.00 | 124 | 48.7 - 146 |

Sample: 125556 - SB2 @ 1'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38310 33169 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-18 2007-06-18 | Prep Method: Analyzed By: Prepared By: | ÉŔ |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| i rop Daton. | | RL | 2007-00-18 | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 2020 | mg/Kg | 100 | 1.00 |

Sample: 125556 - SB2 @ 1'

| Analysis: QC Batch: Prep Batch: | TPH DRO 37553 32551 | | Date Analyze | Analytical Method:Mod. 8015BDate Analyzed:2007-05-26Sample Preparation:2007-05-25 | | Prep Method: Analyzed By: Prepared By: | | | |
|---------------------------------------|---------------------------|--------|--------------|---|------|--|---------------------|------|---------------|
| Parameter | Fla | 50 | RL Result | | Unit | ĴS | Dilution | ť | RL |
| DRO | | | 1430 | | mg/K | g | 1 | | 50.0 |
| Surrogate | Flag | Result | Units | Dilu | tion | Spike Amount | Percent Recovery | | overy mits |
| n-Triacontan | e ² | 279 | mg/Kg | | 1 | 1.50 | 186 | 62.5 | - 164 |

Sample: 125556 - SB2 @ 1'

| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5035 |
|-------------|---------|---------------------|------------|--------------|--------|
| QC Batch: | 37549 | Date Analyzed: | 2007-05-25 | Analyzed By: | MT |
| Prep Batch: | 32548 | Sample Preparation: | 2007-05-25 | Prepared By: | MT |

¹Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

²High surrogate recovery due to peak interference.

| Report Date: June State M SWD | | Work Order: 7052526 State M SWD | | | | Page Number: 5 of Buckeye,N | | |
|--|------|---|---------------|----------------|----------|--------------------------------|---------------------|------------------------|
| Parameter | Flag | $\operatorname{RL}_{\operatorname{Result}}$ | | | Units | D | ilution | RL |
| GRO | | | 657 | | mg/Kg | | 20 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifiuorotoluene (T 4-Bromofluorobenz | ' | 3 | 0.680 2.59 | mg/Kg mg/Kg | 20 20 | 1.00 1.00 | 68 259 | 33.2 - 160 10 - 227 |

Sample: 125557 - SB2 @ 3'

| QC Batch: 37 | FEX 546 | | Analytical M Date Analyze | | S 8021B 2007-05-25 | | Prep Metl Analyzed | |
|------------------|---------------|------|------------------------------|----------|-----------------------|--------|-----------------------|--------------|
| Prep Batch: 32 | 547 | | Sample Prep | aration: | 2007-05-25 | | Prepared 2 | B_{Y} : MT |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | | 0.0382 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | 0.210 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene | (TFT) | | 0.945 | mg/Kg | g 1 | 1.00 | 94 | 52.1 - 131 |
| 4-Bromofluorobe | nzene (4-BFB) | | 0.939 | mg/Kg | g1 | 1.00 | 94 | 48.7 - 146 |

Sample: 125557 - SB2 @ 3'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38253 33118 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-16 2007-06-16 | Prep Method: Analyzed By: Prepared By: | ĒR |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 402 | mg/Kg | 50 | 1.00 |

Sample: 125557 - SB2 @ 3'

.

| Analysis: QC Batch: Prep Batch: | TPH DRO 37553 32551 | Analytical Method: Date Analyzed: Sample Preparation: | Mod. 8015B 2007-05-26 2007-05-25 | Prep Method: Analyzed By: Prepared By: | ΤĠ |
|---------------------------------------|---------------------------|---|--|--|------|
| Parameter | Flag | RL Result | Units | Dilution | RL |
| DRO | | 288 | mg/Kg | 1 | 50.0 |

³High surrogate recovery due to peak interference.

| Report Date: Ju State M SWD | ne 20, 2007 | | | rk Order: State M S | | Page Number: 6 of 71 Buckeye,NM | | |
|--|--|----------|---|---|---|---|--|--|
| Surrogate | Flag | Result | Units | Dib | ution | Spike Amount | Percent Recoverv | Recovery Limits |
| n-Triacontane | гад | 245 | mg/Kg | |] | 150 | 163 | 62.5 - 164 |
| | | | 6/ ***6 | | | | | |
| Sample: 125557 | 7 - SB2 @ 3' | | | | | | | |
| Analysis: TP | 'H GRO | | Analytical | Method: | S 8015B | | Prep Metl | hod: S 5033 |
| QC Batch: 375 | 547 | | Date Analy | | 2007-05-25 | | Analyzed | |
| Prep Batch: 325 | 547 | | Sample Pre | eparation: | 2007-05-25 | | Prepared | By: MT |
| Parameter | Flag | | RL Result | | Units |] | Dilution | RI |
| GRO | | | 45.4 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike | Percent | Recovery Limits |
| Trifluorotoluene (| | Flag | 0.922 | mg/Kg | | <u>Amount</u> 1.00 | Recovery 92 | 33.2 - 160 |
| 4-Bromofiuorober | | | 1.80 | mg/Kg | 1 | 1.00 | 92 180 | 10 - 227 |
| QC Batch: 375 | TEX 541 | | Analytical M Date Analyze | ed: ; | S 8021B 2007-05-25 | | Prep Met Analyzed | By: MT |
| Analysis: BT | TEX 541 | | Date Analyze Sample Prep | ed: ; | | | | By: MT |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter | TEX 541 | <u>z</u> | Date Analyze Sample Prep RL Result | ed: ; | 2007-05-25 2007-05-25 Units | Ľ | Analyzed | By: MT By: MT RJ |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene | TEX 541 545 | 2 | Date Analyze Sample Prep RL Result <0.0100 | ed: ; | 2007-05-25 2007-05-25 Units mg/Kg | Ľ | Analyzed Prepared Dilution 1 | By: MT By: MT RI 0.010 |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene | TEX 541 545 | 5 | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 | ed: ; | 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | Ľ | Analyzed Prepared Dilution 1 1 | By: MT By: MT RJ 0.010 0.010 |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene | TEX 541 545 | <u>z</u> | Date Analyze Sample Prep RL Result <0.0100 | ed: ; | 2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg | Ľ | Analyzed Prepared Dilution 1 | By: MT By: MT 0.010 0.010 0.010 |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene | TEX 541 545 | <u>n</u> | Date Analyze Sample Preps RL Result <0.0100 <0.0100 <0.0100 | ed: ; | 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | | Analyzed Prepared Dilution 1 1 1 1 1 | By: MT By: MT 0.010 0.010 0.010 0.010 |
| Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene | TEX 541 545 | | Date Analyze Sample Prep: RL Result <0.0100 <0.0100 <0.0100 <0.0100 | ed: ; aration: ; | 2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg | Spike | Analyzed Prepared Dilution 1 1 1 1 1 2 Percent | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 0.010 |
| Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate | FEX 541 545 Flag | Flag | Date Analyze Sample Prep: RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result | ed: : : : : : : : : : : : : : : : : : : | 2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Dilution | Spike Amount | Analyzed Prepared Dilution 1 1 1 1 1 1 2 Percent Recovery | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recovery Limits |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluene (| TEX 541 545 Flag (TFT) | | Date Analyze Sample Prep: RL Result <0.0100 <0.0100 <0.0100 <0.0100 | ed: ; aration: ; | 2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg | Spike | Analyzed Prepared Dilution 1 1 1 1 1 2 Percent | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover; |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Irifluorotoluene (4-Bromofluorober | TEX 541 545 Flag (TFT) nzene (4-BFB) | | Date Analyze Sample Preps RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 | ed: : : : : : : : : : : : : : : : : : : | 2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg Dilution 1 | Spike Amount 1.00 | Analyzed Prepared Dilution 1 1 1 1 1 9 Percent Recovery 97 | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 0.010 Recover, Limits 52.1 - 13 |
| Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Kylene Surrogate Trifluorotoluene (4-Bromofluorober Sample: 125558 Analysis: Ch | TEX 541 545 (TFT) nzene (4-BFB) 8 - SB2 @ 5' doride (IC) | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic | units mg/Kg mg/Kg | 2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 Percent Recovery 97 91 Prep M | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover; Limits 52.1 - 13 48.7 - 14 |
| Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Frifluorotoluene (4-Bromofluorober Sample: 12555 Analysis: Ch QC Batch: 382 | TEX 541 545 Flag (TFT) nzene (4-BFB) 8 - SB2 @ 5' | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic Date An | units mg/Kg mg/Kg | 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg Dilution 1 1 1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 97 91 | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover: Limits 52.1 - 13 48.7 - 14 |
| Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluene (4-Bromofluorober Sample: 125558 Analysis: Ch QC Batch: 382 Prep Batch: 331 | TEX 541 545 (TFT) nzene (4-BFB) 8 - SB2 @ 5' loride (IC) 253 118 | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic Date An Sample I RL | Units mg/Kg mg/Kg al Method alyzed: | 2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 1 :: E 300.0 2007-06- n: 2007-06- | Spike Amount 1.00 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 Percent Recovery 97 91 Prep M Analyze Prepare | By: MT By: MT 0.010 0.000 0.000 0.00000000 |
| Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Frifluorotoluene (4-Bromofluorober Sample: 12555 Analysis: Ch QC Batch: 382 | TEX 541 545 (TFT) nzene (4-BFB) 8 - SB2 @ 5' loride (IC) 253 | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic Date An Sample I | Units mg/Kg mg/Kg al Method alyzed: | 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg Dilution 1 1 1 | Spike Amount 1.00 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 Percent Recovery 97 91 Prep M Analyze | By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover; Limits 52.1 - 13 48.7 - 14 |

| Report Date State M SW | :: June 20, 2007 D | | Wa | ork Order: State M S | | | Page Number: 7 of 71 Buckeye,NM | | |
|---|---|--------|--|-------------------------|-------------------------------------|--------|------------------------------------|-------------|--|
| Sample: 12 | 5558 - SB2 @ | 5' | | | | | | | |
| Analysis: | TPH DRO | | Analytical | Method. | Mod. 8015 | R | Prep Me | ethod: N/A | |
| QC Batch: | 37553 | | Date Anal | | 2007-05-26 | D | Analyze | | |
| Prep Batch: | 32551 | | Sample Pr | | 2007-05-25 | | Prepare | | |
| 1 • • • • • • • • • • • • • • • • • • • | 02001 | | Demini, no 1 1 | optar autom. | 2007 00 20 | | | | |
| | | | RL | | | | | | |
| Parameter | Fl | ag | Result | | Units | I | Dilution | RI | |
| DRO | | | <50.0 | | mg/Kg | | 1 | 50.0 | |
| | | | | | | Spike | Percent | Recovery | |
| Surrogate | Flag | Result | Units | Dil | ution | Amount | Recovery | Limits | |
| n-Triacontan | | 227 | mg/Kg | | 1 | 150 | 151 | 62.5 - 164 | |
| Sample: 12 | :5558 - SB2 @ | 5' | | | | | | | |
| Analysis: | TPH GRO | | Analytical | Method: | S 8015B | | Prep Met | nod: S 503. | |
| QC Batch: | 37543 | | Date Anal | | 2007-05-25 | | Analyzed | | |
| Prep Batch: | 32545 | | Sample Pr | | | | Prepared | | |
| | | | - | | | | | | |
| _ | | | RL | | | | | | |
| Parameter | FI | ag | Result | | Units | | Dilution | RI | |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.0 | |
| | | | | | | Spike | Percent | Recovery | |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits | |
| Trifluorotolu | | | 1.02 | mg/Kg | 1 | 1.00 | 102 | 33.2 - 160 | |
| 4-Bromofluo | robenzene (4-BF | 'В) | 1.01 | mg/Kg | 1 | 1.00 | 101 | 10 - 227 | |
| Sample: 12 Analysis: QC Batch: Prep Batch: | 25559 - SB2 @ BTEX 37541 32545 | 30' | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Met Analyzed Prepared | By: MT | |
| | | | RL | | | | | | |
| Parameter | | Flag | Result | | Units | I | Dilution | RI | |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.010 | |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.010 | |
| Ethylbenzen | e | | < 0.0100 | | mg/Kg | | 1 | 0.010 | |
| Xylene | | ····· | <0.0100 | | mg/Kg | | 1 | 0.010 | |
| | | | • | | | Spike | Percent | Recovery | |
| <u>~</u> | | Flag | Result | Units | Dilution | | Recovery | Limits | |
| Surrogate | | | 1.28 | mg/Kg | 1 | 1.00 | 128 | 52.1 - 13 | |
| Trifluorotolu | iene (TFT) robenzene (4-BF | | 1.28 | mg/Kg | 1 | 1.00 | 119 | 48.7 - 14 | |

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|---|-----------------------|------------------------------|-----------------------------------|--------------|------|
| Sample: 12 | 25559 - SB2 @ 30' | | | | |
| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 38253 | Date Analyzed: | 2007-06-16 | Analyzed By: | ER |
| Prep Batch: | 33118 | Sample Preparation: | 2007-06-16 | Prepared By: | ER |
| | | RL . | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 2060 | mg/Kg | 100 | 1.00 |

Sample: 125559 - SB2 @ 30'

| Analysis: TPH DRO QC Batch: 37553 Prep Batch: 32551 | | Analytical M Date Analyze Sample Prepa | zed: 2007-05-26 | | Analyz | Method:N/Axed By:TGred By:TG | |
|---|------|--|-----------------|----------|-----------------|------------------------------|--------------------|
| | | | RL | | | | |
| Parameter | F | lag | Result | Uni | its | Dilution | RL |
| DRO | | | <50.0 | mg/I | íg | 1 | 50.0 |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontan | e | 222 | mg/Kg | 1 | 150 | 148 | 62.5 - 164 |

Sample: 125559 - SB2 @ 30'

| Analysis: QC Batch: Prep Batch: | | | | S 8015B Prep M 2007-05-25 Analyz 2007-05-25 Prepare | | | By: MT | |
|---------------------------------------|--------------------------------|------|---------------------|---|----------|-----------------|---------------------|------------------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GR.O | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolue 4-Bromofluor | ene (TFT) robenzene (4-BFB) | | $\frac{1.35}{1.29}$ | mg/Kg mg/Kg | 1 | 1.00 1.00 | 135 129 | 33.2 - 160 10 - 227 |

Sample: 125560 - SB2 @ 50'

| Analysis: QC Batch: Prep Batch: | BTEX 37546 32547 | | Analytical Method: Date Analyzed: Sample Preparation: | S 8021B 2007-05-25 2007-05-25 | Prep Method: Analyzed By: Prepared By: | S 5035 MT MT |
|---------------------------------------|------------------------|---------|---|-------------------------------------|--|--------------------|
| | | | RL | | | |
| Parameter | | Flag | Result | Units | Dilution | RL |
| Benzene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Ethylbenzen | e | <u></u> | <0.0100 | mg/Kg | <u> </u> | 0.0100 |

continued ...

sample 125560 continued ...

| | | | RL | | | | | |
|----------------------------|------|------|----------|-------|----------|--------|----------|------------|
| Parameter | Flag | | Result | | Units | Di | lution | RL |
| Xylene | | | < 0.0100 | | mg/Kg | | 1 . | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.910 | mg/Kg | 1 | 1.00 | 91 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BF | B) | | 0.841 | mg/Kg | 1 | 1.00 | 84 | 48.7 - 146 |

Sample: 125560 - SB2 @ 50'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38253 33118 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-16 2007-06-16 | Prep Method: Analyzed By: Prepared By: | N/A ER ER |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|-----------------|
| T Tep Daten. | 30110 | RL | 2007-00-10 | | LUIC |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 43.5 | mg/Kg | 5 | 1.00 |

Sample: 125560 - SB2 @ 50'

| Analysis: | TPH DRO | | Analytical Me | | | Prep Method: | | N/A |
|--------------|---------|--------|---------------------------|----------------|-------------------|--------------|--------|---------------|
| QC Batch: | 37553 | | Date Analyzed: 2007-05-26 | | 5-26 | Analyzed By: | | TG |
| Prep Batch: | 32551 | | Sample Prepa | ration: 2007-0 | ation: 2007-05-25 | | ed By: | ΤG |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | Uni | its | Dilution | | RL |
| DRO | | | <50.0 | mg/I | mg/Kg | | | 50.0 |
| | | | | | Spike | Percent | Reco | overy |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Lin | nits |
| n-Triacontan | e. | 223 | mg/Kg | 1 | 150 | 149 | 62.5 | - 164 |

Sample: 125560 - SB2 @ 50'

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| Analysis:TPH GROQC Batch:37547Prep Batch:32547 | | Analytical Method: Date Analyzed: Sample Preparation: | | S 8015B Prep M 2007-05-25 Analyze 2007-05-25 Prepare | | | d By: MT | |
|--|-------------------|---|--------|--|----------|--------|----------|------------|
| | | | RL | • | | | | |
| Parameter | Flag | | Result | | Units | I | lution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| | | | | TT 1 . | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 0.919 | mg/Kg | 1 | 1.00 | 92 | 33.2 - 160 |
| 4-Bromofluo | robenzene (4-BFB) | | 0.913 | mg/Kg | 1 | 1.00 | 91 | 10 - 227 |

| e (4-BFB) B3 @ 1' e (IC) | Date A | zed: 2 paration: 2 | S 8021B 2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg Dilution 20 20 | Di Spike Amount 1.00 1.00 | Prep Meth Analyzed Prepared I 20 20 20 20 20 20 20 20 20 20 20 20 20 | By: MT |
|--|--|---|---|--|--|---|
| 4 F (4-BFB) B3 @ 1' e (IC) | Date Analy Sample Pre RL Result <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A | zed: 2 paration: 2 Units mg/Kg mg/Kg | 2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg <u>Dilution</u> 20 | Spike Amount 1.00 | Analyzed Prepared I 20 20 20 20 Percent Recovery 59 | By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13 |
| 4 F (4-BFB) B3 @ 1' e (IC) | Date Analy Sample Pre RL Result <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A | zed: 2 paration: 2 Units mg/Kg mg/Kg | 2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg <u>Dilution</u> 20 | Spike Amount 1.00 | Analyzed Prepared I 20 20 20 20 Percent Recovery 59 | By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13 |
| 4 F (4-BFB) B3 @ 1' e (IC) | Sample Pre RL Result <0.200 | Units mg/Kg mg/Kg | 2007-05-25 Units mg/Kg mg/Kg mg/Kg | Spike Amount 1.00 | Prepared 1 lution 20 20 20 20 Percent Recovery 59 | By: MT RI 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13 |
| 4 F (4-BFB) B3 @ 1' e (IC) | RL Result <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A | Units mg/Kg mg/Kg | Units mg/Kg mg/Kg mg/Kg Dilution 20 | Spike Amount 1.00 | lution 20 20 20 20 Percent Recovery 59 | RI 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13 |
| 4 F (4-BFB) B3 @ 1' e (IC) | Result <0.200 | Units mg/Kg mg/Kg | mg/Kg mg/Kg mg/Kg mg/Kg Dilution | Spike Amount 1.00 | 20 20 20 20 Percent Recovery 59 | 0.010 0.010 0.010 0.010 Recovery Limits 52.1 - 13 |
| 4 F (4-BFB) B3 @ 1' e (IC) | <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A | Units mg/Kg mg/Kg | mg/Kg mg/Kg mg/Kg mg/Kg Dilution | Spike Amount 1.00 | 20 20 20 20 Percent Recovery 59 | 0.010 0.010 0.010 0.010 Recovery Limits 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A | Units mg/Kg mg/Kg | mg/Kg mg/Kg Dilution 20 | Amount 1.00 | 20 20 20 Percent Recovery 59 | 0.010 0.010 0.010 Recovery Limits 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A | Units mg/Kg mg/Kg | mg/Kg mg/Kg Dilution 20 | Amount 1.00 | 20 20 Percent Recovery 59 | 0.010 0.010 Recovery Limits 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | 3.17 Flag Result 0.588 1.03 Analyt Date A | Units mg/Kg mg/Kg | mg/Kg Dilution 20 | Amount 1.00 | 20 Percent Recovery 59 | 0.010 Recovery Limits 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | Flag Result 0.588 1.03 Analyt Date A | Units mg/Kg mg/Kg | Dilution 20 | Amount 1.00 | Percent Recovery 59 | Recovery Limits 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | 0.588 1.03 Analyt Date A | mg/Kg mg/Kg | 20 | Amount 1.00 | Recovery 59 | Limits 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | 0.588 1.03 Analyt Date A | mg/Kg mg/Kg | 20 | 1.00 | 59 | 52.1 - 13 |
| e (4-BFB) B3 @ 1' e (IC) | 1.03 Analyt Date A | mg/Kg | | | | |
| B3 @ 1' e (IC) | Analyt Date A | | 20 | 1.00 | 103 | 48.7 - 14 |
| e (IC) | Date A | ical Method | | | | |
| | Sample | nalyzed: Preparatio | 2007-06-16 | | Prep Me Analyze Prepare | ed By: ER |
| | RL | | | _ | | |
| Flag | Result | | Units | <u>I</u> | Dilution | RI |
| ······································ | 2720 | | mg/Kg | | 100 | 1.0 |
| B3 @ 1' | | | | | | 1 |
| RO | Analytica | al Method: | Mod. 8015B | | Prep M | ethod: N/J |
| | Date Ana | alyzed: | 2007-05-26 | | Analyze | ed By: TG |
| | Sample F | reparation: | 2007-05-25 | | Prepare | ed By: TG |
| | DI | | | | | |
| Flag | | | Tinits | T | Dilution | RJ |
| 1.00 | 2710 | | mg/Kg | | 1 | 50. |
| | | | | | D | |
| | | | 2 | • | rercent | Recover |
| Flag Res | sult Units | Til | lution Ar | nount | Recovery | Limits |
| | | RO Analytica Date Ana Sample F RL Flag Result | RO Analytical Method: Date Analyzed: Sample Preparation RL Flag Result 2710 | RO Analytical Method: Mod. 8015B Date Analyzed: 2007-05-26 Sample Preparation: 2007-05-25 RL Flag Result Units 2710 mg/Kg | RO Analytical Method: Mod. 8015B Date Analyzed: 2007-05-26 Sample Preparation: 2007-05-25 RL Flag Result Units I | RO Analytical Method: Mod. 8015B Prep Me Date Analyzed: 2007-05-26 Analyzed Sample Preparation: 2007-05-25 Prepare RL Flag Result Units Dilution 2710 mg/Kg 1 Spike Percent |

⁴Sample ran at dilution due to hydrocarbons with a retention time greater than xylene. ⁵High surrogate recovery due to peak interference.

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|----------------------------|---------------------|-----------------------|
| State M SWD | State M SWD | Buckeye,NM |
| | | |

sample 125561 continued ...

| | | | \mathbf{RL} | | | | | |
|---------------------|-------------|------|---------------|-------|----------|--------|----------|------------|
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRÓ | | | 270 | | mg/Kg | | 20 | 1.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (T | FT) | | 0.768 | mg/Kg | 20 | 1.00 | 77 | 33.2 - 160 |
| 4-Bromofluorobenze | ene (4-BFB) | | 1.38 | mg/Kg | 20 | 1.00 | 138 | 10 - 227 |

Sample: 125562 - SB3 @ 3'

| Analysis: QC Batch: Prep Batch: | BTEX 37541 32545 | | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analyzed I Prepared I | By: MT |
|---------------------------------------|------------------------|------|------|--|-------|-------------------------------------|---------|---------------------------------------|---------------|
| | | | | RL | | | | | |
| Parameter | | Flag | | Result | | Units | D | ilution | \mathbf{RL} |
| Benzene | | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | 9 | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | | < 0.0100 | | mg/Kg | <u></u> | 1 | 0.0100 |
| | | | | | | | Spike | Percent | Recovery |
| Surrogate | | | Flag | Result | Units | Dilution | Amount | Recovery. | Limits |
| Trifluorotolu | ene (TFT) | | | 1.03 | mg/K | g 1 | 1.00 | 103 | 52.1 - 131 |
| 4-Bromofiuor | robenzene (4-E | BFB) | | 0.976 | mg/K | gl | 1.00 | 98 | 48.7 - 146 |

Sample: 125562 - SB3 @ 3'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38253 33118 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-16 2007-06-16 | Prep Method: Analyzed By: Prepared By: | , |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| Parameter | Flag | RL Result | Units | Dilution | RL |
| Chloride | | 1270 | mg/Kg | 100 | 1.00 |

Sample: 125562 - SB3 @ 3'

| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | | Prep Method: | N/A |
|-------------|---------|---------------------|------------|---|--------------|---------------|
| QC Batch: | 37553 | Date Analyzed: | 2007-05-26 | | Analyzed By: | TG |
| Prep Batch: | 32551 | Sample Preparation: | 2007-05-25 | _ | Prepared By: | TG |

continued ...

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|----------------------------|---------------------------------------|-----------------------|
| State M SWD | State M SWD | Buckeye,NM |
| sample 125562 continued | · · · · · · · · · · · · · · · · · · · | |

| n-Triacontane | 1 100 | 235 | mg/Kg | 1 | 150 | 157 | 62.5 - 164 |
|---------------|-------|--------|--------------|----------|---|---------------------|--------------------|
| Surrogate | Flag | Result | Units | Dilution | ${\mathop{ m Spike}}\ {\mathop{ m Amount}}$ | Percent Recovery | Recovery Limits |
| DR() | | | <50.0 | mg/l | (g | 1 | 50.0 |
| Parameter | Fla | £ | RL Result | Ūni | ts | Dilution | RL |
| Parameter | Fla | g | RL Result | Uni | ts | Dilution | RL |

Sample: 125562 - SB3 @ 3'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37543 32545 | | Analytical Date Anal Sample Pr | | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed I Prepared I | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|---------------------------------------|---------------------------------------|--------------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | 2.26 | | mg/Kg | · · · · · · · · · · · · · · · · · · · | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifiuorotolu | ene (TFT) | | 1.08 | mg/Kg | 1 | 1.00 | 108 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.14 | mg/Kg | 1 | 1.00 | 114 | 10 - 227 |

Sample: 125563 - SB3 @ 5'

| Analysis: BTEX QC Batch: 37541 Prep Batch: 32545 | | Analytical M Date Analyze Sample Prepa | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analvzed Prepared | By: MT |
|--|------|--|-------|-------------------------------------|--------|-----------------------------------|------------|
| | | RL | | | | | |
| Parameter Flag | 5 | Result | | Units | Di | lution | RL |
| Benzene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | < 0.0100 | | mg/Kg | | 1 | 0.010() |
| Xylene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | 1.04 | mg/Kg | ς 1 | 1.00 | 104 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BFB) | | 0.976 | mg/Kg | g 1 | 1.00 | 98 | 48.7 - 146 |

Sample: 125563 - SB3 @ 5'

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|-------------|---------------|---------------------|------------|--------------|---------------|
| QC Batch: | 38253 | Date Analyzed: | 2007-06-16 | Analyzed By: | ĒR |
| Prep Batch: | 33118 | Sample Preparation: | 2007-06-16 | Prepared By: | \mathbf{ER} |

| State M SWI | : June 20, 2007 D | | | rk Order: State M 1 | | | Page Nun | aber: 13 of ' Buckeye,N |
|--|--|---------------------------------------|--|--|---|--|--|---|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | R |
| Chloride | | · · · · · · · · · · · · · · · · · · · | 1400 | | mg/Kg | | 100 | 1.0 |
| | | | 1400 | | mg/mg | <u></u> | | |
| Sample: 12 | 5563 - SB3 @ 5' | | | | | | | |
| Analysis: | TPH DRO | | Analytical | Method: | Mod. 8015 | в | Prep M | ethod: N/ |
| QC Batch: | 37553 | | Date Analy | zed: | 2007-05-26 | | Analyz | ed By: TG |
| Prep Batch: | 32551 | | Sample Pre | | | | Prepare | |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | R |
| DRO | | | <50.0 | | mg/Kg | | 1 | 50 |
| ~ | | | | | | Spike | Percent | Recover |
| Surrogate | Flag | Result | Units | Di | lution | Amount | Recovery | Limits |
| n-Triacontan | e | 233 | mg/Kg | | 1 | 150 | 155 | 62.5 - 16 |
| | 37543 | | Date Analy | | 2007-05-25 | | Prep Met Analyzed | By: MT |
| Prep Batch: | 32545 | | Date Analy Sample Pre RL | vzed: | 2007-05-25 | | Analyzed Prepared | By: MT By: MT |
| Prep Batch: Parameter | | | Date Analy Sample Pre RL Result | vzed: | 2007-05-25 Units | | Analyzed Prepared Dilution | By: MT By: MT R |
| QC Batch: Prep Batch: Parameter GRO | 32545 | | Date Analy Sample Pre RL | vzed: | 2007-05-25 | | Analyzed Prepared | By: MT By: MT |
| Prep Batch: Parameter GRO | 32545 | Elog | Date Analy Sample Pre RL Result 1.11 | vzed: eparation | : 2007-05-25 Units mg/Kg | Spike | Analyzed Prepared Dilution J Percent | By: MT By: MT R 1.0 Recover |
| Prep Batch: Parameter GRO Surrogate | 32545 Flag | Flag | Date Analy Sample Pre RL Result 1.11 Result | vzed: eparation Units | : 2007-05-25 Units mg/Kg Dilution | Spike Amount | Analyzed Prepared Dilution J Percent Recovery | By: MT By: MT R 1.0 Recover Limits |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue | 32545 Flag | Flag | Date Analy Sample Pre RL Result 1.11 | vzed: eparation | : 2007-05-25 Units mg/Kg Dilution 1 | Spike | Analyzed Prepared Dilution J Percent | By: MT By: MT R 1.0 Recover |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 | 32545 Flag ene (TFT) | | Date Analy Sample Pre RL Result 1.11 Result 1.08 | Units mg/Kg mg/Kg | : 2007-05-25 Units mg/Kg Dilution 1 | Spike Amount 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 108 112 | By: MT By: MT Recover Limits 33.2 - 16 10 - 22 |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 | | Date Analy Sample Pre RL Result 1.11 Result 1.08 1.12 | Units mg/Kg mg/Kg | : 2007-05-25 Units mg/Kg Dilution 1 1 | Spike Amount 1.00 | Analyzed Prepared Dilution J Percent Recovery 108 | By: MT By: MT Recover Limits 33.2 - 16 10 - 22 |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX | | Date Analy Sample Pre RL Result 1.11 Result 1.08 1.12 Analytical M | Units mg/Kg mg/Kg ethod: | : 2007-05-25 Units mg/Kg Dilution 1 1 S 8021B | Spike Amount 1.00 | Analyzed Prepared Dilution] Percent Recovery 108 112 Prep Met | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 | , | Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL | Units mg/Kg mg/Kg ethod: | : 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 | Spike Amount 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 108 112 Prep Met Analyzed Prepared | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 | , | Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result | Units mg/Kg mg/Kg ethod: | : 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units | Spike Amount 1.00 | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 | , | Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 | Units mg/Kg mg/Kg ethod: | : 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg | Spike Amount 1.00 | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT By: MT |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla | , | Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: | : 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | Spike Amount 1.00 | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT By: MT By: MT |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla | , | Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 | Units mg/Kg mg/Kg ethod: | : 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg | Spike Amount 1.00 | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT By: MT |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla | ۶ ٤ | Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: aration: | : 2007-05-25 Units mg/Kg Dilution 1 1 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg | Spike Amount 1.00 1.00 Spike | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 2 | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT By: MT F 0.016 0.016 0.016 0.016 |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla | , | Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 Result | Units mg/Kg mg/Kg ethod: ed: aration: | 2007-05-25 Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg | Spike Amount 1.00 1.00 Spike Amount | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 2 Percent Recovery | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT By: MT F 0.016 0.016 0.016 0.016 0.016 |
| Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue | 32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla | , g Flag | Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: aration: | 2007-05-25 Units mg/Kg Dilution 1 1 2007-05-25 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg | Spike Amount 1.00 1.00 Spike | Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 2 | By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT By: MT F 0.016 0.016 0.016 0.016 |

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|--|--|----------------------------|--|---|---|---------------------------------|--|--|--|
| Sample: 12 | 5564 - SB3 @ 2 | 5' | | | | | | | |
| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38253 33118 | | Date Ana | d Method: dyzed: Preparation | E 300.0 2007-06-1 :: 2007-06-1 | | Prep M Analyze Prepare | ed By: | N/A ER ER |
| Parameter | Flag | 5 | RL Result | | Units | | Dilution | | RL |
| Chloride | | | 2530 | | mg/Kg | | 100 | | 1.00 |
| Sample: 12 | 5564 - SB3 @ 2 | 5' | | | | | | | |
| Analysis: QC Batch: Prep Batch: | TPH DRO 37553 32551 | | Analytical Date Analy Sample Pre | zed: | Mod. 8015) 2007-05-26 2007-05-25 | B | Prep M Analyze Prepare | ed By: | N/A TG TG |
| * | | | RL | * | | | · | | |
| Parameter DRO | Flag | 5 | Result <50.0 | | Units mg/Kg | | Dilution 1 | | RL 50.0 |
| Surrogate | Flag | Result | Units | Dilu | tion | Spike Amount | Percent Recovery | | covery imits |
| | | | | | | | | | |
| n-Triacontan | e | 212 | mg/Kg | - - | 1 | 150 | 141 | 62. | 5 - 164 |
| n-Triacontan Sample: 12 Analysis: QC Batch: | | | mg/Kg Analytical Date Analy Sample Pre | Method: vzed: | I S 8015B 2007-05-25 2007-05-25 | 150 | 141 Prep Met Analyzed Prepared | bod: By: | |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: | e 25564 - SB3 @ 2 TPH GRO 37543 32545 | 5' | Analytical Date Analy Sample Pre RL | Method: vzed: | S 8015B 2007-05-25 2007-05-25 | 150 | Prep Met Analyzed Prepared | bod: By: | S 5033 MT MT |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Parameter | e 25564 - SB3 @ 2 TPH GRO 37543 | 5' | Analytical Date Analy Sample Pre | Method: vzed: | S 8015B 2007-05-25 | 150 | Prep Met Analyzed | bod: By: | S 503; MT MT RI |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO | e 25564 - SB3 @ 2 TPH GRO 37543 32545 | 5, | Analytical Date Analy Sample Pre RL Result <1.00 | Method: vzed: | S 8015B 2007-05-25 2007-05-25 Units | 150 Spike Amount | Prep Met Analyzed Prepared Dilution 1 Percent | bod: By: By: Re | S 5033 MT MT <u>RI</u> 1.00 covery |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifiuorotolu | e 5564 - SB3 @ 2 TPH GRO 37543 32545 Flag | 5' 3 Flag | Analytical Date Analy Sample Pre RL Result | Method: vzed: eparation: | S 8015B 2007-05-25 2007-05-25 Units mg/Kg | Spike | Prep Met Analyzed Prepared Dilution 1 | bhod: By: By: Re L 33. | S 5033 MT MT RI 1.00 |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo: | e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag rene (TFT) | 5' 5 Flag | Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 | Method: vzed: eparation: Units mg/Kg mg/Kg | S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 | hod: By: By: Re L 33. 10 | S 503; MT MT 1.00 covery imits 2 - 160 - 227 S 503 |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo: Sample: 12 Analysis: QC Batch: | e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag robenzene (4-BFB 25565 - SB3 @ 3 BTEX 37541 | 5' 5 Flag | Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 1.24 | Method: vzed: eparation: Units mg/Kg mg/Kg ethod: | S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 | Spike Amount 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 124 | hod: By: By: Re L 33. 10 | S 503; MT MT 1.00 covery imits 2 - 160 - 227 |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolu 4-Bromofluo: Sample: 12 Analysis: QC Batch: Prep Batch: | e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag robenzene (4-BFB 25565 - SB3 @ 3 BTEX 37541 32545 | 5' g Flag) 9' | Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 1.24 Analytical M Date Analyze Sample Prep RL | Method: vzed: eparation: Units mg/Kg mg/Kg ethod: | S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 3 8 8021B 2007-05-25 2007-05-25 | Spike Amount 1.00 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 124 Prep Met Analyzed Prepared | hod: By: By: Re L 33. 10 | S 503; MT MT 1.00 covery imits 2 - 160 - 227 S 503 MT MT |
| n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo: Sample: 12 Analysis: QC Batch: | e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag robenzene (4-BFB 25565 - SB3 @ 3 BTEX 37541 32545 | 5' 5 Flag | Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 1.24 Analytical M Date Analyze Sample Prep | Method: vzed: eparation: Units mg/Kg mg/Kg ethod: | S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 3 8 8021B 2007-05-25 | Spike Amount 1.00 1.00 | Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 124 Prep Met Analyzed | hod: By: By: Re L 33. 10 | S 503; MT MT 1.00 covery imits 2 - 160 - 227 S 503 MT |

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continued ...

sample 125565 continued ...

| | | | RL | | | | | |
|---------------------------|------|------|----------|-------|----------|---------------------------------------|----------|---------------|
| Parameter | Flag | | Result | | Units | Di | lution | \mathbf{RL} |
| Xylene | | | < 0.0100 | | mg/Kg | · · · · · · · · · · · · · · · · · · · | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 1.15 | mg/Kg | 1 | 1.00 | 115 | 52.1 - 131 |
| 4-Bromofiuorobenzene (4-B | FB) | | 1.06 | mg/Kg |] | 1.00 | 106 | 48.7 - 140 |

Sample: 125565 - SB3 @ 39'

| Analysis: QC Batch: | Chloride (IC) 38253 | Analytical Method: Date Analyzed: | E 300.0 2007-06-16 | Prep Method: Analyzed By: | ÉŔ |
|------------------------|------------------------|--------------------------------------|-----------------------|------------------------------|---------------|
| Prep Batch: | 33118 | Sample Preparation: | 2007-06-16 | Prepared By: | \mathbf{ER} |
| | | \mathbf{RL} | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 328 | mg/Kg | 50 | 1.00 |

Sample: 125565 - SB3 @ 39'

| n-Triacontan | € | 232 | mg/Kg | 1 | | 150 | 155 | 62.5 | - 164 |
|---------------------------------------|---------------------------|--------|---|-------|---------------------------------|-----------------|----------------------------|------|-----------------|
| Surrogate | Flag | Result | Units | Dilut | ion | Spike Amount | Percent Recovery | Li | overy mits |
| DRO | | | <50.0 | | mg/Kg | ç | 1 | | 50.0 |
| Parameter | Flag | 5 | RL Result | | Units | S | Dilution | | RL |
| Analysis: QC Batch: Prep Batch: | TPH DRO 37553 32551 | | Analytical Me Date Analyze Sample Prepa | ed: | Mod. 80 2007-03- 2007-05- | 26 | Prep M Analyz Prepar | | N/A TG TG |

Sample: 125565 - SB3 @ 39'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37543 32545 | | Analytical Date Anal Sample Pr | | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared 1 | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|--------|-------------------------------------|---------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | \mathbf{RL} |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| _ | | - | _ . | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 1.20 | mg/Kg | 1 | 1.00 | 120 | 33.2 - 160 |
| 4-Bromofluo | robenzene (4-BFB) | | 1.15 | mg/Kg | 1 | 1.00 | 115 | 10 - 227 |

| |) | | Wo | rk Order: State M S | | | Page Nun | nber: 16 of 71 Buckeye,NM |
|--|--|----------|---------------------------|------------------------|--------------------------------------|--------|-----------------------------|------------------------------|
| Sample: 125 | 5566 - SB4 @ 1' | | | | | | | |
| Analysis: | BTEX | | Analytical M | lethod: | S 8021B | | Prep Met | hod: S 5035 |
| QC Batch: | 37546 | | Date Analyz | ed: 2 | 2007-05-25 | | Analyzed | |
| Prep Batch: | 32547 | | Sample Prep | aration: 2 | 2007-05-25 | | Prepared | By: MT |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| Benzene | | <u> </u> | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | 0.0408 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | | Limits |
| Trifluorotolue | (/ | | 0.928 | mg/Kg | 1 | 1.00 | 93 | 52.1 - 131 |
| 4-Bromofluor | obenzene (4-BFB) | | 0.946 | mg/Kg | 1 | 1.00 | 95 | 48.7 - 146 |
| Sample: 12: Analysis: QC Batch: Prep Batch: | 5566 - SB4 @ 1' Chloride (IC) 38254 33119 | | Date Ar | | e: E 300.0 2007-06-3 2007-06-3 | | Prep M Analyz Prepare | ed By: ER |
| Dunganatan | | | RL | | ¥ 5 54 | | Dilution | ът |
| Parameter Chloride | Flag | · | Result 120 | | Units mg/Kg | | 50 | RL 1.00 |
| | ······································ | | 120 | | mg/Kg | | | 00.1 |
| Sample: 12! | 5566 - SB4 @ 1' | | Analytical | Mathody | Mod. 8015 | в | Prep M | fethod: N/A |
| - | חמת עמיד | | | | | | • | |
| Analysis: | TPH DRO 37553 | | Date Anoi | wzed. | 2007/2022/202 | | | ed By: TG |
| Analysis: QC Batch: | 37553 | | Date Anal Sample Pi | | 2007-05-26 | | | ed By: TG ed By: TG |
| Analysis: QC Batch: | | | Sample Pr | lyzed: reparation: | | | Prepar | |
| Analysis: QC Batch: Prep Batch: | 37553 32551 | | Sample Pr RL | | 2007-05-25 | | Prepar | ed By: TG |
| Analysis: QC Batch: Prep Batch: Parameter | 37553 | | Sample Pr RL Result | | 2007-05-25 Units | | | ed By: TG RL |
| Analysis: QC Batch: Prep Batch: Parameter | 37553 32551 | | Sample Pr RL | | 2007-05-25 | | Prepar | ed By: TG |
| - | 37553 32551 | Result | Sample Pr RL Result | reparation: | 2007-05-25 Units | | Prepar Dilution 1 | ed By: TG RL 50.0 |

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| Report Date: State M SWD | June 20, 2007) | | | ck Order: 70 State M SV | | | Page Num | ber: 17 Buckey | |
|--|--|------------|--|--------------------------------------|---------------------------------------|-------------------|-----------------------------------|-------------------|--------------------------|
| sample 125560 | 6 continued | | | | | | | | |
| | | | RL | | | | | | |
| Parameter | Flag | <u> </u> | Result | | Units | D | ilution | | RL |
| D . | | | RL | | ** • . | | •1 | | БŤ |
| Parameter GRO | Flag | | Result 16.4 | | Units mg/Kg | D | ilution 1 | | $\frac{\text{RL}}{1.00}$ |
| 0110 | | | 10.4 | | mg/ng | | | | |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Li | overy mits |
| Trifluorotolue 4-Bromofluoro | ne (TFT) obenzene (4-BFB) | | 0.810 1.23 | mg/Kg mg/Kg | 1 1 | 1.00 1.00 | 81 123 | | - 160 - 227 |
| Analysis: QC Batch: | 5567 - SB4 @ 3' BTEX 37541 32545 | | Analytical M Date Analyze Sample Prepa | ed: 20 | 8021B 107-05-25 107-05-25 | | Prep Metl Analyzed Prepared | By: 1 | 5 503: MT MT |
| Parameter | Flag | | RL Result | | Units | Di | lution | | RI |
| Benzene | 1.195 | · <u> </u> | <0.0100 | <u> </u> | mg/Kg | | 1 | | 0.010 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | | 0.010 |
| Ethylbenzene | | | < 0.0100 | | mg/Kg | | 1 | | 0.010 |
| <u>X</u> ylene | | | < 0.0100 | | mg/Kg | | 1 | | 0.0100 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | | overy; mits |
| Trifluorotolue | me (TFT) | | 1.07 | mg/Kg | 1 | 1.00 | 107 | | - 13 |
| | obenzene (4-BFB) | | 0.980 | mg/Kg | 1 | 1.0() | 98 | 48.7 | 7 - 14(|
| Sample: 125 Analysis: QC Batch: Prep Batch: | 5567 - SB4 @ 3' Chloride (IC) 38254 33119 | | Date An | al Method: alyzed: Preparation | E 300.0 2007-06-17 : 2007-06-16 | | Prep M Analyze Prepare | ed By: | N/J ER ER |
| D | | | RL | | T 1 · | . | N1 41 4 | | 10.1 |
| Parameter Chloride | Flag | | Result | ··· , . | Units mg/Kg | L | Dilution 5 | | |
| Chloride Sample: 125 Analysis: | 5567 SB4 @ 3' TPH DRO | | 117 Analytical | | mg/Kg Mod. 8015B | | 5 Prep M | ethod: | N/ |
| QC Batch: | 37553 | | Date Anal | • | 2007-05-26 | | Analyze | | TG |
| Prep Batch: | 32551 | | Sample Pr | eparation: | 2007-05-25 | continu | Prepare | ag Bû: | ΤG |
| | | | | | | 55 <i>100</i> 010 | | | |

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|----------------------------|---------------------|-----------------------|
| State M SWD | State M SWD | Buckeye.NM |
| sample 125567 continued | | |

RLFlag Result Units Dilution RLParameter RLDilution RLParameter Flag Result Units DRO mg/Kg 50.0 <50.0 1 Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits n-Triacontane 240 150 160 62.5 - 164 mg/Kg 1

Sample: 125567 - SB4 @ 3'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37543 32545 | | Analytical Date Anal Sample Pr | yzed: | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed 1 Prepared 1 | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|--------|---------------------------------------|---------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | \mathbf{RL} |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 1.13 | mg/Kg | 1 | 1.00 | 113 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.08 | mg/Kg | 1 | 1.00 | 108 | 10 - 227 |

Sample: 125568 - SB4 @ 5'

| Analysis: QC Batch: Prep Batch: | BTEX 37541 32545 | | Analytical M Date Analyze Sample Prepa | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Metho Analyzed E Prepared E | By: MT |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|--------|--|------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | Di | lution | RL |
| Benzene | <u> </u> | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | <u>.</u> | | < 0.0100 | | m mg/Kg | | 1 | 0.0100 |
| Xylene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 1.07 | mg/Kg | g 1 | 1.00 | 107 | 52.1 - 131 |
| 4-Bromofluor | robenzene (4-BFB) | | 0.980 | mg/K | g 1 | 1.00 | 98 | 48.7 - 146 |

Sample: 125568 - SB4 @ 5'

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|-------------|---------------|---------------------|------------|--------------|---------------|
| QC Batch: | 38254 | Date Analyzed: | 2007-06-17 | Analyzed By: | ER |
| Prep Batch: | 33119 | Sample Preparation: | 2007-06-16 | Prepared By: | \mathbf{ER} |

| State M SW | :: June 20, 2 D | :007 | | | k Order: State M S | | | Page Nun | aber: 19 of Buckeye,N |
|--|---|-------------------------------|---------------|--|--|---|--------------------------------|---|--|
| | | | | \mathbf{RL} | | | | | |
| Parameter | | Flag | | Result | | Units | | Dilution | R |
| Chloride | | | | 238 | | mg/Kg | ···· ··· ··· | 50 | 1.(|
| Sample: 12 | 5568 - SB4 | 4 @ 5' | | | | | | | |
| Analysis: | TPH DRO | | | Analytical | Method: | Mod. 8015 | ъ́В | Prep M | ethod: N/ |
| QC Batch: | 37553 | | | Date Analy | | 2007-05-20 | | Analyz | |
| Prep Batch: | 32551 | | | Sample Pre | | 2007-05-25 |) | Prepare | |
| | | | | RL | | | | | |
| Parameter | | Flag | | Result | | Units | | Dilution | R |
| DRO | | | · · | <50.0 | | mg/Kg | | 1 | 50 |
| Curro mode | T.)I | | Demili | T] | | uti or | Spike | Percent | Recover |
| Surrogate n-Triacontan | Fla | 1 <u>5</u> | Result 232 | Units mg/Kg | D1 | ution 1 | Amount 150 | Recovery 155 | Limits 62.5 - 16 |
| | | | | | | | | | |
| Sample: 12 | 5568 - SB4 | 4@5' | | | | | | | |
| Analysis: | TPH GRC |) | | Analytical | Method: | S 8015B | | Prep Met | hod: S 503 |
| QC Batch: | 37543 | | | Date Analy | zed: | 2007-05-25 | j | Analyzed | |
| | | | | | | | | | |
| Prep Batch: | 32545 | | | Sample Pre | eparation: | 2007-05-25 |) | Prepared | By: MT |
| - | 32545 | | | RL | eparation: | | 5 | | |
| Parameter | 32545 | Flag | | RL Result | eparation: | Units | 5 | Dilution | R |
| Parameter | 32545 | Flag | | RL | eparation: | | ; | | |
| Parameter GRO | 32545 | Flag | | RL Result <1.00 | | Units mg/Kg | Spike | Dilution 1 Percent | Recover |
| Parameter GRO Surrogate | | Flag | Flag | RL Result <1.00 Result | Units | Units mg/Kg Dilution | Spike Amount | Dilution 1 Percent Recovery | Recover Limits |
| Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofiuor | ene (TFT) | | Flag | RL Result <1.00 | | Units mg/Kg | Spike | Dilution 1 Percent | Recover |
| Parameter GRO Surrogate Trifluorotoluo 4-Bromofiuor | ene (TFT) robenzene (4 | 4-BFB) | | RL Result <1.00 Result 1.15 | Units mg/Kg | Units mg/Kg Dilution 1 | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 | Recover Limits 33.2 - 10 |
| Parameter GRO Surrogate Trifluorotoluo 4-Bromofiuor Sample: 12 | ene (TFT) robenzene (4 25569 - SB4 | 4-BFB) | | RL Result <1.00 Result 1.15 1.06 | Units mg/Kg mg/Kg | Units mg/Kg Dilution 1 1 | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 | Recover Limits 33.2 - 10 10 - 22 |
| Parameter GRO Surrogate Trifluorotoluo 4-Bromofiuor Sample: 12 Analysis: | ene (TFT) robenzene (4 25569 - SB4 BTEX | 4-BFB) | | RL Result <1.00 Result 1.15 1.06 Analytical M | Units mg/Kg mg/Kg ethod: | Units mg/Kg Dilution 1 1 S 8021B | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met | Recover Limits 33.2 - 10 10 - 22 |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch: | ene (TFT) robenzene (4 :5569 - SB4 BTEX 37541 | 4-BFB) | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed | Recover Limits 33.2 - 10 10 - 22 |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch: | ene (TFT) robenzene (4 25569 - SB4 BTEX | 4-BFB) | | RL Result <1.00 Result 1.15 1.06 Analytical M | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 S 8021B | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met | Recover Limits 33.2 - 10 10 - 22 |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch: Prep Batch: | ene (TFT) robenzene (4 :5569 - SB4 BTEX 37541 | 4-BFB) 4 @ 20 [.] | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Mer Analyzed Prepared | Recover Limits 33.2 - 10 10 - 22 thod: S 50: By: MT By: MT |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch: Prep Batch: Parameter | ene (TFT) robenzene (4 :5569 - SB4 BTEX 37541 | 4-BFB) | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed | Recover Limits 33.2 - 10 10 - 22 |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene | ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545 | 4-BFB) 4 @ 20 [.] | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 | Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 |
| Parameter GRO Surrogate Trifiuorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene | ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545 | 4-BFB) 4 @ 20 [.] | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 | Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 0.014 |
| Parameter GRO Surrogate Trifluorotolue | ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545 | 4-BFB) 4 @ 20 [.] | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | Spike Amount 1.00 | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 | Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene | ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545 | 4-BFB) 4 @ 20 [.] | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: aration: | Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg | Spike 1.00 1.00 Spike | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 Percent | Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 0.014 0.014 0.014 |
| Parameter GRO Surrogate Trifluorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene | ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545 e | 4-BFB) 4 @ 20 [.] | | RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 <0.0100 | Units mg/Kg mg/Kg ethod: ed: | Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg | Spike 1.00 1.00 Spike | Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 Percent | Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 0.014 |

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|---------------------------------------|---|--------|--|------------|---|-----------------|------------------------------|---------------------|
| Sample: 12 | 5569 - SB4 @ 20' | | | | | | | |
| Analysis: QC Batch: Prep Batch: | Chloride (1C) 38254 33119 | | Analytic Date An Sample F | alyzed: | 2007-06- | | Prep M Analyze Prepare | ed By: ER |
| _ | | | RL | | | | · · · | |
| Parameter Chloride | Flag | | Result 3310 | | Units mg/Kg | | Dilution 100 | RL 1.00 |
| Sample: 12 | 5569 - SB4 @ 20' | | | | | | | |
| Analysis: QC Batch: Prep Batch: | TPH DRO 37553 32551 | | Analytical Date Analy Sample Pre | vzed: | Mod. 8013 2007-05-26 : 2007-05-23 |) | Prep M Analyz Prepare | ed By: TG |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| DRO | <u></u> | | <50.0 | | mg/Kg | |]. | 50.0 |
| Surrogate | Flag | Result | Units | Di | lution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontan | | 248 | mg/Kg | | 1 | 150 | 165 | 62.5 - 164 |
| Sample: 12 | 5569 - SB4 @ 20' | | | | | | | |
| Analysis: | TPH GRO | , | Analytical | Method: | S 8015B | | Prep Met | |
| QC Batch: Prep Batch: | 37543 32545 | | Date Analy Sample Pre | | 2007-05-23 : 2007-05-23 | | Analyzed Prepared | • |
| | 01010 | | - | cpta abron | . 2001 00 20 | , , | 1 roporod | |
| Parameter | Flag | | RL Result | | Units | | Dilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilutior | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolue | | | 1.26 | mg/Kg | | 1.00 | 120 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.14 | mg/Kg | | 1.00 | 114 | 10 - 227 |
| Sample: 12 | 5570 - SB4 @ 39' | | | | | | | |
| Analysis: | BTEX | | Analytical M | ethod: | S 8021B | | Prep Met | thod: S 5035 |
| QC Batch: | 37546 | | Date Analyze | ed: | 2007-05-25 | | Analyzed | By: MT |
| Prep Batch: | 32547 | | Sample Prepa | aration: | 2007-05-25 | | Prepared | By: MT |

| | Sample Preparation: | 2007-05-25 | Prepared By: | |
|------|---------------------|--|---|---|
| | RL | | | |
| Flag | Result | Units | Dilution | \mathbf{RL} |
| | < 0.0100 | mg/Kg | 1 | 0.0100 |
| | < 0.0100 | mg/Kg | 1 | 0.0100 |
| | < 0.0100 | mg/Kg | 1 | 0.0100 |
| | Flag | Sample Preparation: RL Flag Result <0.0100 <0.0100 | Sample Preparation: 2007-05-25 RL Flag Result Units <0.0100 mg/Kg <0.0100 mg/Kg | Sample Preparation:2007-05-25Prepared By:RLDilutionFlagResultUnitsDilution<0.0100 |

⁶High surrogate recovery. Sample non-detect, result bias high.

continued ...

sample 125570 continued

| | | | RL | | | | | |
|----------------------------|------|------|----------|-------|----------|--------|-----------|---------------------|
| Parameter | Flag | | Result | | Units | Di | lution | RL |
| Xylene | | | < 0.0100 | | mg/Kg | |] | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery: | Limits |
| Trifluorotoluene (TFT) | | | 0.964 | mg/Kg | <u>]</u> | 1.00 | 96 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BI | FB) | | 0.892 | mg/Kg | 1 | 1.00 | 89 | 48.7 - 146 |

Sample: 125570 - SB4 @ 39'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38254 33119 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-17 2007-06-16 | Prep Method: Analyzed By: Prepared By: | ' |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| Parameter | Flag | RL Result | Units | Dilution | RL |
| Chloride | | 144 | mg/Kg | 5 | 1.00 |

Sample: 125570 - SB4 @ 39'

| Analysis: QC Batch: Prep Batch: | TPH DRO 37554 32551 | | Analytical M Date Analyze Sample Prepa | ed: 200' | l. 8015B 7-05-26 7-05-25 | | fethod: N/A wed By: TG red By: TG |
|---------------------------------------|---------------------------|--------|--|----------|--------------------------------|---------------------|---|
| | | | RL | | | | |
| Parameter | \mathbf{Fl} | ag | Result | ו | Units | Dilution | \mathbf{RL} |
| DRO | | | <50.0 | m | g/Kg | 1 | 50.0 |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontan | e | 232 | mg/Kg | 1 | 150 | 155 | 62.5 - 164 |

Sample: 125570 - SB4 @ 39'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37547 32547 | | Analytical Date Anal Sample Pr | vzed: | S 8015B 2007-05-25 2007-05-25 | | Prep Metł Analyzed Prepared 1 | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|-----------------|-------------------------------------|--------------------|
| | · | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | |] | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 1.02 | mg/Kg | 1 | 1.00 | 102 | 33.2 - 160 |
| | obenzene (4-BFB) | | 0.972 | mg/Kg | 1 | 1.00 | 97 | 10 - 227 |

| Analytical Me Date Analyzeo Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result | l: 20 ration: 20 | 8021B)07-05-25)07-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg |] | Prep Meth Analyzed Prepared Dilution 1 1 1 1 | By: MT By: MT 0.01 0.03 0.03 |
|--|--|--|---|---|---|
| Date Analyzed Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100 | l: 20 ration: 20 | 007-05-25 007-05-25 Units mg/Kg mg/Kg mg/Kg | | Analyzed Prepared Dilution 1 1 1 | By: MT By: MT 0.01 0.01 0.01 |
| Date Analyzed Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100 | l: 20 ration: 20 | 007-05-25 007-05-25 Units mg/Kg mg/Kg mg/Kg | | Analyzed Prepared Dilution 1 1 1 | By: MT By: MT |
| Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result | ation: 20 | 007-05-25 Units mg/Kg mg/Kg mg/Kg | | Prepared Dilution 1 1 1 | By: MT F 0.01 0.01 0.01 |
| RL Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result | | Units mg/Kg mg/Kg mg/Kg | | Dilution 1 1 1 | F 0.01 0.01 0.01 |
| Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result | | mg/Kg mg/Kg mg/Kg |] | 1 1 1 | 0.01 0.01 0.01 |
| <0.0100 <0.0100 <0.0100 <0.0100 ag Result | | mg/Kg mg/Kg mg/Kg |] | 1 1 1 | |
| <0.0100 <0.0100 <0.0100 ag Result | | mg/Kg mg/Kg | | 1 1 | 0.01 0.01 |
| <0.0100 <0.0100 ag Result | | mg/Kg | | Ĩ | 0.01 |
| <0.0100 ag Result | | | <u> </u> | | |
| ag Result | | mg/Kg | | 1 | |
| | | | | | 0.01 |
| | | | Spike | Percent | Recover |
| | Units | Dilution | Amount | Recovery | Limits |
| 0.949 | mg/Kg | 1 | 1.00 | 95 | 52.1 - 1 |
| 0.866 | mg/Kg | 1 | 1.00 | 87 | 48.7 - 14 |
| Date Ana | lyzed: | | | Analyze Prepare | ed By: El |
| RL Popult | | Timito | | Dilution | F |
| | | | | | 1. |
| | | | | | |
| Analytical M | Method: | Mod 8015B | | Pren M | ethod: N/ |
| | | 2007-05-26 | | Analyze | |
| Date Analy: | zed: | 2007-03-20 | | | JUDV. IV |
| Date Analy: Sample Prej | | 2007-05-25 | | Prepare | |
| Sample Prej RL | | 2007-05-25 | | Prepare | d By: TO |
| Sample Prep RL Result | | 2007-05-25 Units | | Prepare | ed By: TO |
| Sample Prej RL | | 2007-05-25 | | Prepare | d By: TO |
| Sample Prep RL Result <50.0 | | 2007-05-25 Units mg/Kg | Spike | Prepare Dilution 1 Percent | ed By: TC F 50 Recover |
| Sample Prep RL Result | | 2007-05-25 Units mg/Kg tion A | Spike mount 150 | Prepare Dilution | ed By: TC |
| | Date Ana Sample P RL Result 1210 | RL Result | Date Analyzed: 2007-06-17 Sample Preparation: 2007-06-16 RL Result Units 1210 mg/Kg | Date Analyzed: 2007-06-17 Sample Preparation: 2007-06-16 RL Result Units 1210 mg/Kg | Date Analyzed:2007-06-17AnalyzedSample Preparation:2007-06-16PrepareRLResultUnitsDilution1210mg/Kg100 |

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|----------------------------|---------------------|-----------------------|
| State M SWD | State M SWD | Buckeye,NM |
| | | |

sample 125571 continued ...

| m | | | RL | | | - | | |
|----------------------|------------|------|---------------|-------|----------|--------|----------|------------|
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | . D | lution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TF | T) | | 1.02 | mg/Kg | 1 | 1.00 | 102 | 33.2 - 160 |
| 4-Bromofluorobenzer | ne (4-BFB) | | 0.944 | mg/Kg | 1 | 1.00 | 94 . | 10 - 227 |

Sample: 125572 - SB5 @ 3'

| Analysis: BTEX QC Batch: 37546 Prep Batch: 32547 | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared | By: MT |
|--|------|--|--|-------------------------------------|--------|-----------------------------------|------------|
| 110, 2000, 0201 | | | di d | 2001 00 20 | | i roparoa. | Dj. MI |
| | | RL | | | | | |
| Parameter Flag | | Result | | Units | Di | lution | RL |
| Benzene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | <0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery. | Limits |
| Trifluorotoluene (TFT) | | 1.11 | mg/Kg | g 1 | 1.00 | 111 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BFB) | | 1.03 | mg/Kg | g 1 | 1.00 | 103 | 48.7 - 146 |

Sample: 125572 - SB5 @ 3'

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|---|---------------|---------------------|------------|--------------|---------------|
| QC Batch: | 38254 | Date Analyzed: | 2007-06-17 | Analyzed By: | ER |
| Prep Batch: | 33119 | Sample Preparation: | 2007-06-16 | Prepared By: | ER. |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | \mathbf{RL} |
| $\overline{\mathrm{C}}\mathrm{hloride}$ | | 882 | mg/Kg | 100 | 1.00 |

Sample: 125572 - SB5 @ 3'

| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
|-------------|---------|---------------------|------------|--------------|------------------------|
| QC Batch: | 37554 | Date Analyzed: | 2007-05-26 | Analyzed By: | TG |
| Prep Batch: | 32551 | Sample Preparation: | 2007-05-25 | Prepared By: | $\mathbf{T}\mathbf{G}$ |

continued ...

sample 125572 continued

| - | | | RL | ~ | | | • • • |
|---------------|------|--------|--------|----------|--------|-----------|------------|
| Parameter | Flag | | Result | Uni | ts | Dilution | RL |
| | | | RL | | | | |
| Parameter | Flag | | Result | Uni | ts | Dilution | RL |
| DRO | | | <50.0 | mg/I | (g | 1 | 50.0 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery. | Limits |
| n-Triacontane | | 238 | mg/Kg | 1 | 150 | 159 | 62.5 - 164 |

Sample: 125572 - SB5 @ 3'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37547 32547 | | Analytical Date Anal Sample Pr | | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared 1 | By: MT |
|---------------------------------------|---------------------------|-------|--------------------------------------|-------|-------------------------------------|-----------------|-------------------------------------|--------------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | \mathbf{RL} |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifiuorotolu | ene (TFT) | ., ., | 1.19 | mg/Kg | 1 | 1.00 | 119 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.12 | mg/Kg | 1 | 1.00 | 112 | 10 - 227 |

Sample: 125573 - SB5 @ 5'

| Analysis: BTEX QC Batch: 37546 Prep Batch: 32547 | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Metho Analyzed B Prepared B | y: MT |
|--|------|--|-------|-------------------------------------|--------|--|------------|
| | | RL | | | 4 | | |
| Parameter Flag | | Result | | Units | Di | lution | RL |
| Benzene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | <0.0100 | | mg/Kg | |] | 0.0100 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | 0.940 | mg/Kg | g 1 | 1.00 | 94 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BFB) | | 0.862 | mg/Kg | g 1 | 1.00 | 86 | 48.7 - 146 |

Sample: 125573 - SB5 @ 5'

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|-------------|---------------|---------------------|------------|--------------|---------------|
| QC Batch: | 38254 | Date Analyzed: | 2007-06-17 | Analyzed By: | ER. |
| Prep Batch: | 33119 | Sample Preparation: | 2007-06-16 | Prepared By: | \mathbf{ER} |

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|---|--|------------------------------------|--|--|---|--|--|--|
| | | | RL | | | | | |
| Parameter | Flag | _ | Result | | Units | | Dilution | RL |
| Chloride | | | 1490 | | mg/Kg | | 100 | 1.00 |
| Sample: 125573 | - SB5 @ 5' | | | | | | | |
| - | I DRO | | Analytical | Method: | Mod. 8015 | в | Prep M | lethod: N/A |
| QC Batch: 3755 | 54 | | Date Analy | vzed: | 2007-05-26 | | Analyz | ed By: TG |
| Prep Batch: 3255 | 51 | | Sample Pre | eparation: | 2007-05-25 | | Prepare | ed By: TG |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| DR.O | | | < 50.0 | | mg/Kg | | 1 | 50.0 |
| Surrogate | Flag | Result | Units | Dib | ution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontane | | 233 | mg/Kg | | 1 | 150 | 155 | 62.5 - 164 |
| Applycic TPF | I CRO | | Applatical | Mothody | C 2015D | | Prop Mot | hod \$ \$025 |
| QC Batch: 3754 | | | Analytical Date Analy Sample Pr | vzed: | S 8015B 2007-05-25 2007-05-25 | | Prep Met Analyzed Prepared | By: MT |
| • | 17 | | Date Analy Sample Pr | vzed: | 2007-05-25 | | | By: MT |
| QC Batch: 3754 Prep Batch: 3254 | 17 17 | | Date Analy Sample Pr RL | vzed: | 2007-05-25 2007-05-25 | | Analyzed Prepared | By: MT By: MT |
| QC Batch: 3754 Prep Batch: 3254 Parameter | 17 | | Date Analy Sample Pro RL Result | vzed: | 2007-05-25 2007-05-25 Units | | Analyzed | By: MT By: MT RL |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO | 17 17 | | Date Analy Sample Pr RL | vzed: | 2007-05-25 2007-05-25 | | Analyzed Prepared Dilution 1 Percent | By: MT By: MT RL |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate | 17 17 Flag | Flag | Date Analy Sample Pr RL Result <1.00 Result | vzed: eparation: Units | 2007-05-25 2007-05-25 Units | Spike Amount | Analyzed Prepared Dilution 1 Percent Recovery | By: MT By: MT RL 1.00 Recovery Limits |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (7 | 17 17 Flag IFT) | Flag | Date Analy Sample Pro RL Result <1.00 Result 1.00 | vzed: eparation: Units mg/Kg | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 | Spike Amount 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (7 | 17 17 Flag IFT) | Flag | Date Analy Sample Pr RL Result <1.00 Result | vzed: eparation: Units | 2007-05-25 2007-05-25 Units mg/Kg Dilution | Spike Amount | Analyzed Prepared Dilution 1 Percent Recovery | By: MT By: MT RL 1.00 Recovery Limits |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (7 4-Bromofluorobenz | 17 17 Flag IFT) zene (4-BFB) | Flag | Date Analy Sample Pro RL Result <1.00 Result 1.00 | vzed: eparation: Units mg/Kg | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | Flag | Date Analy Sample Pro- RL Result <1.00 Result 1.00 0.937 | vzed: eparation: Units mg/Kg mg/Kg | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | Flag | Date Analy Sample Pro RL Result (1.00 Result 1.00 0.937 Analytical M Date Analyz | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 1 1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 | 17 17 17 17 17 17 17 17 18 18 17 17 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17 | Flag | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 1 1 S 8021B | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofluorobenz Sample: 125574 Analysis: BTF QC Batch: 3754 Prep Batch: 3254 | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 1 1 3 S 8021B 2007-05-25 2007-05-25 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter | 17 17 17 17 17 17 17 17 18 18 17 17 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17 | | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene Toluene | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | | Date Analy Sample Pro- RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 <0.0100 | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 1 | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 0.0100 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 0.0100 0.0100 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene Toluene Ethylbenzene Xylene | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 <0.0100 <0.0100 | vzed: eparation: Units mg/Kg mg/Kg fethod: ed: aration: | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 3 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg | Spike Amount 1.00 1.00 Spike | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 Percent | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 |
| QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene Toluene Ethylbenzene | 17 17 17 17 17 17 17 17 16 17 17 18 17 17 | | Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 <0.0100 <0.0100 | vzed: eparation: Units mg/Kg mg/Kg ed: | 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | Spike Amount 1.00 1.00 Spike | Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 Percent | By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 0.0100 0.0100 |

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|---|-------------------|------------------------------|-------------------------------------|--------------|---------------|
| Sample: 12 | :5574 - SB5 @ 20' | | | | |
| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 38254 | Date Analyzed: | 2007-06-17 | Analyzed By: | ER. |
| Prep Batch: | 33119 | Sample Preparation: | 2007-06-16 | Prepared By: | \mathbf{ER} |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 2080 | mg/Kg | 100 | 1.00 |

Sample: 125574 - SB5 @ 20'

| Analysis: QC Batch: Prep Batch: | Batch: 37554 | | Analytical Method: Date Analyzed: Sample Preparation: | | Mod. 80 2007-05- 2007-05- | 26 | Prep Method: Analyzed By: Prepared By: | | N/A TG TG |
|---------------------------------------|--------------|--------|---|-------|---------------------------------|-----------------|--|------|-----------------|
| | | | RL | | | | | | |
| Parameter | F | lag | Result | | Units | 5 | Dilution | | \mathbf{RL} |
| DR.O | | | <50.0 | | mg/Kg | | 1 | | 50.0 |
| Surrogate | Flag | Result | Units | Dilut | tion | Spike Amount | Percent Recovery | | overy mits |
| n-Triacontan | e î | 273 | mg/Kg | 1 | | 150 | 182 | 62.5 | - 164 |

Sample: 125574 - SB5 @ 20'

| Analysis: QC Batch: Prep Batch: | \tilde{B} atch: 37547 | | Analytical Date Anal Sample Pr | | S 8015B 2007-05-25 2007-05-25 | | Prep Metl Analyzed Prepared | By: MT |
|---------------------------------------|-------------------------------|------|--------------------------------------|----------------|-------------------------------------|-----------------|-----------------------------------|------------------------|
| Parameter | Flag | | RL Result | | Units | D | lilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu 4-Bromofluor | ene (TFT) obenzene (4-BFB) | | 0.928 0.865 | mg/Kg mg/Kg | 1 | 1.00 1.00 | 93 86 | 33.2 - 160 10 - 227 |

Sample: 125575 - SB5 @ 35'

| Analysis: QC Batch: Prep Batch: | C Batch: 37546 | | 6 Date Analyzed: | | Prep Method: Analyzed By: Prepared By: | |
|---------------------------------------|----------------|------|------------------|-------|--|--------|
| | | | \mathbf{RL} | | | |
| Parameter | | Flag | Result | Units | Dilution | RL |
| Benzene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Ethylbenzen | e | | < 0.0100 | mg/Kg | 1 | 0.0100 |

⁷High surrogate recovery. Sample non-detect, result bias high.

continued ...

sample 125575 continued

| | | | RL | , | | | | | |
|----------------------------|------|------|----------|-------|----------|--------|----------|---------------------|--|
| Parameter | Flag | | Result | , | Units | Di | lution | RL | |
| Xylene | | | < 0.0100 |) | mg/Kg |] | | 0.0100 | |
| | | | | | | Spike | Percent | Recovery | |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits | |
| Trifluorotoluene (TFT) | | | 0.924 | mg/Kg |] | 1.00 | 92 | 52.1 - 131 | |
| 4-Bromofluorobenzene (4-BF | PB) | | 0.841 | mg/Kg | 1 | 1.00 | 84 | 48.7 - 146 | |

Sample: 125575 - SB5 @ 35'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38254 33119 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-17 2007-06-16 | Prep Method: Analyzed By: Prepared By: | $\dot{\mathrm{ER}}$ |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|---------------------|
| Parameter | Flag | RL Result | Units | Dilution | \mathbf{RL} |
| Chloride | U | 49.1 | mg/Kg | ō | 1.00 |

Sample: 125575 - SB5 @ 35'

| Analysis: QC Batch: Prep Batch: | CBatch: 37554 | | Analytical Metho Date Analyzed: Sample Preparat | | | 015B -26 -25 | Prep Method: Analyzed By: Prepared By: | | N/A TG TG |
|---------------------------------------|----------------|--------|---|------|------|--------------------|--|------|-----------------|
| | | | RL | | | | | | |
| Parameter | Fla | g | Result | | Unit | S | Dilution | | \mathbf{RL} |
| DRO | | | <50.0 | | mg/K | g |]. | | 50.0 |
| Surrogata | Floor | Result | Units | Dilu | tion | Spike | Percent | | overy: mits |
| Surrogate | Flag | | | | UOD | Amount | Recovery | | |
| n-Triacontan | e [°] | 257 | mg/Kg | 1 | | 150 | 171 | 62.5 | - 164 |

Sample: 125575 - SB5 @ 35'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37547 32547 | | Analytical Date Anal Sample Pr | vzed: | S 8015B 2007-05-25 2007-05-25 | | Prep Me Analyze Preparee | d By: MT · |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|-----------------|--------------------------------|--------------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | \mathbf{RL} |
| GRO | | | <1.00 | | mg/Kg | ····· | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 0.982 | mg/Kg | 1 | 1.00 | <u>98</u> | 33.2 - 160 |
| | | | | | | | | continued |

⁸High surrogate recovery. Sample non-detect, result bias high.

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|---|------|------------------------------------|---------|------------|-------------------------------------|------------|-------------|
| sample continued | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| 4-Bromofluorobenzene (4-BFB) | | 0.920 | mg/Kg | 1 | 1.00 | 92 | 10 - 227 |
| Sample: 125576 - SB6 @ 1' | | | | | | | |
| Analysis: BTEX | | Analytical N | lethod: | S 8021B | | Prep Metl | nod: S 5035 |
| QC Batch: 37546 | | Date Analyz | | 2007-05-25 | | Analyzed | |
| Prep Batch: 32547 | | Sample Pre | | 2007-05-25 | | Prepared 1 | |
| | | RL | , | | | | |
| Parameter Flag | | Result | | Units | Di | lution | RL |
| Benzene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 |
| Toluene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 |
| Xylene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | 0.889 | mg/Kg | 1 | 1.00 | 89 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BFB) | | 0.810 | mg/Kg | 1 | 1.00 | 81 | 48.7 - 146 |

Sample: 125576 - SB6 @ 1'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38310 33169 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-18 2007-06-18 | Prep Method: Analyzed By: Prepared By: | ER |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 414 | mg/Kg | 50 | 1.00 |

Sample: 125576 - SB6 @ 1^{*}

| Analysis: QC Batch: Prep Batch: | TPH DRO 37554 32551 | | Analytical Me Date Analyze Sample Prepa | d: 2007- | 8015B 05-26 05-25 | Prep M Analyz Prepar | • |
|---------------------------------------|---------------------------|--------|---|----------|-------------------------|----------------------------|--------------------|
| | | | RL | | | | |
| Parameter | F | lag | Result | U | nits | Dilution | \mathbf{RL} |
| DRO | | | <50.0 | mg, | /Kg | 11 | 50.0 |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Triacontan | | 210 | mg/Kg | 1 | 150 | 140 | 62.5 - 164 |

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|---|------------------------------------|-------------------------------------|--|--|
| Sample: 125576 - SB6 @ 1' | | | | |
| Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035 | | |

| QC Batch: Prep Batch: | 37547 32547 | | Date Analyzed: 2 | | 2007-(15-25 2007-(15-25 | 25 Analyzed | | • |
|--------------------------|-------------------|--------|------------------|-------|----------------------------|-----------------|---------------------|--------------------|
| . | * _1 | | RL | ÷ | - - , | | ••• · · · | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | - 1005 | 0.946 | mg/Kg | 1 | 1.00 | 95 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 0.924 | mg/Kg | 1 | 1.00 | 92 | 10 - 227 |

Sample: 125577 - SB6 @ 3'

| Analysis: QC Batch: Prep Batch: | BTEX 37546 32547 | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Metho Analyzed By Prepared By | |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|--------|--|------------|
| | | | , , | | 2001 00 20 | | 1 101.000 | By: MT |
| Parameter | Flag | | RL Result | | Units | L. | ilution | RL |
| | Flag | | | | | D. | | |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | 9 | • | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifiuorotolu | ene (TFT) | | 1.08 | mg/K | g 1 | 1.00 | 108 | 52.1 - 131 |
| 4-Bromofluor | obenzene (4-BFB) | | 0.978 | mg/K | - | 1.00 | 98 | 48.7 - 146 |

Sample: 125577 - SB6 @ 3'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38312 33171 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-19 2007-06-18 | Prep Method: Analyzed By: Prepared By: | \mathbf{ER} |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|---------------|
| Parameter | Flag | RL Result | Units | Dilution | RL |
| Chloride | | 243 | mg/Kg | 50 | 1.00 |

Sample: 125577 - SB6 @ 3'

| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
|-------------|---------|---------------------|------------|--------------|-----|
| QC Batch: | 37554 | Date Analyzed: | 2007-05-26 | Analyzed By: | TG |
| Prep Batch: | 32551 | Sample Preparation: | 2007-05-25 | Prepared By: | ΤG |

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|--|--|---------------|---|--|--|-------------------------------------|--|---|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| DR.O | | | <50.0 | | mg/Kg | |] | 50.0 |
| | | | | | | C | T) | Deer |
| Composito | م داتل | Deput | Thuết | Dilina | : | Spike | Percent | Recovery |
| Surrogate n-Triacontane | Flag 9 | Result 251 | Units | Diluti | ion A | Amount. 150 | Recovery 167 | Limits 62.5 - 164 |
| | · | 201 | mg/Kg | <u>_</u> | | 100 | 107 | 02.0 - 104 |
| Sample: 1255 | 577 - SB6 @ 3' | ~ | | | | | | |
| Analysis: 7 | TPH GRO | | Analytical | Method: | S 8015B | | Prep Met | hod: S 5035 |
| • | 37547 | | Date Analy | | 2007-05-25 | | Analyzed | |
| • | 32547 | | Sample Pre | | 2007-05-25 | | Prepared | |
| , | | | | | | | | |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| | | | | | | | _ | _ |
| c | | - | - | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluen | | | 1.18 | mg/Kg | 1 | 1.00 | 118 | 33.2 - 160 |
| 4-Bromofiuoro | benzene (4-BFB) | | 1.07 | mg/Kg | 1 | 1.00 | 107 | 10 - 227 |
| Sample: 125 | 578 - SB6 @ 5' | | | | | | | |
| Analysis: 1 QC Batch: 3 | 578 - SB6 @ 5' BTEX 37548 32548 | | Analytical M Date Analyze Sample Prepa | ed: 20 | 8021B 107-05-25 107-05-25 | | Prep Met Analyzed Prepared | By: MT |
| Analysis: 1 QC Batch: 3 | BTEX 37548 | | Date Analyze | ed: 20 | 07-05-25 | | Analyzed | By: MT |
| Analysis: I QC Batch: 3 Prep Batch: 3 | BTEX 37548 32548 | 5 | Date Analyze Sample Prepa | ed: 20 | 07-05-25 | I | Analyzed | By: MT |
| Analysis: I QC Batch: 3 Prep Batch: 3 Parameter | BTEX 37548 | 5 | Date Analyze Sample Prepa RL | ed: 20 | 07-05-25 07-05-25 Units | I | Analyzed Prepared | By: MT By: MT |
| Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene | BTEX 37548 32548 | 5 | Date Analyze Sample Prepa RL Result | ed: 20 | 07-05-25 07-05-25 | I | Analyzed Prepared Dilution | By: MT By: MT RL |
| Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene | BTEX 37548 32548 | <u>,</u> | Date Analyze Sample Prepa RL Result <0.0100 | ed: 20 | 07-05-25 07-05-25 Units mg/Kg | I | Analyzed Prepared Dilution 1 | By: MT By: MT RL 0.0100 |
| Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene | BTEX 37548 32548 | 5 | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 | ed: 20 | 07-05-25 07-05-25 Units mg/Kg mg/Kg | 1 | Analyzed Prepared Dilution 1 1 | By: MT By: MT RL 0.0100 0.0100 |
| Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene | BTEX 37548 32548 | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 | ed: 20 aration: 20 | 07-05-25 07-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg | I Spike Amount | Analyzed Prepared Dilution 1 1 1 | By: MT By: MT RL 0.0100 0.0100 0.0100 |
| Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate | BTEX 37548 32548 Flag | 5 Flag | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 | ed: 20 aration: 20 Units | 07-05-25 07-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg | Spike | Analyzed Prepared Dilution 1 1 1 1 2 Percent | By: MT By: MT 0.0100 0.0100 0.0100 0.0100 Recovery |
| Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluen | BTEX 37548 32548 Flag | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result | ed: 20 aration: 20 | 07-05-25 07-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg Dilution | Spike Amount | Analyzed Prepared Dilution 1 1 1 1 2 Percent Recovery | By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13 |
| Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluen 4-Bromofiluorol Sample: 1255 Analysis: 0 QC Batch: 3 | BTEX 37548 32548 Flag | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An | ed: 20 aration: 20 <u>Units</u> mg/Kg mg/Kg al Method: alyzed: | 07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2 E 300.0 2007-06-1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M Analyze | By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13: 48.7 - 140 iethod: N/A ed By: ER |
| Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluen 4-Bromofiluorol Sample: 1255 Analysis: 0 QC Batch: 3 | BTEX 37548 32548 Flag (TFT) benzene (4-BFB) 578 - SB6 @ 5' Chloride (IC) 38312 | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An Sample H | ed: 20 aration: 20 <u>Units</u> <u>mg/Kg</u> mg/Kg al Method: | 07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2 E 300.0 2007-06-1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M | By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 131 48.7 - 146 iethod: N/A ed By: ER |
| Analysis: I QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xvlene Surrogate Trifluorotoluen 4-Bromofiluorol Sample: 1255 Analysis: 0 QC Batch: 3 Prep Batch: 3 | BTEX 37548 32548 Flag re (TFT) benzene (4-BFB) 578 - SB6 @ 5' Chloride (IC) 38312 33171 | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An Sample H RL | ed: 20 aration: 20 <u>Units</u> mg/Kg mg/Kg al Method: alyzed: | 07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2007-06-1 2007-06-1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M Analyze Prepare | By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 131 48.7 - 140 iethod: N/A ed By: ER ed By: ER |
| Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xvlene Surrogate Trifluorotoluen 4-Bromofluorol Sample: 1255 Analysis: 0 QC Batch: 3 | BTEX 37548 32548 Flag (TFT) benzene (4-BFB) 578 - SB6 @ 5' Chloride (IC) 38312 | | Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An Sample H | ed: 20 aration: 20 <u>Units</u> mg/Kg mg/Kg al Method: alyzed: | 07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2 E 300.0 2007-06-1 | Spike Amount 1.00 1.00 | Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M Analyze | By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 131 48.7 - 140 iethod: N/A ed By: ER |

⁹High surrogate recovery. Sample non-detect, result bias high.

| Report Date: June 20, 2007 State M SWD | | | | Order: 7052526 ate M SWD | Page Number: 31 of 71 Buckeye,NM | | | |
|---|-----------------------|-----|---------------|-----------------------------|-------------------------------------|-----------------|-------------|--|
| Sample: 125 | 578 - SB6 @ 5 | , | | | | | | |
| Analysis: TPH DRO | | | Analytical Me | ethod: Mod. | 3015B | Prep M | Aethod: N/A | |
| QC Batch: | 37554 | | Date Analyze | d: 2007-0 | 5-26 | Analyz | ed By: TG | |
| Prep Batch: | 32551 | | Sample Prepa | ration: 2007-0 | 5-25 | Prepared By: TG | | |
| | | | RL | | | | | |
| Parameter | Flag | 7 | Result | Un | its | Dilution | RL | |
| DRO | | | 1300 | mg/l | íg | 1 | 50.0 | |
| | | | | | Spike | Percent | Recovery | |
| Surrogate | ate Flag Result Units | | Dilution | Amount | Recovery | Limits | | |
| n-Triacontane | 10 | 524 | mg/Kg | 1 | 15() | 349 | 62.5 - 164 | |

Sample: 125578 - SB6 @ 5'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37549 32548 | | Analytical Date Anal Sample Pr | | S 8015B 2007-05-25 2007-03-25 | Prep Metho Analyzed E Prepared B | | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|--|---------------------|--------------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 1.08 | mg/Kg | 1 | 1.00 | 108 | 33.2 - 160 |
| 4-Bromofiuor | obenzene (4-BFB) | | 1.11 | mg/Kg | 1 | 1.00 | 111 | 10 - 227 |

Sample: 125579 - SB6 @ 15'

| Analysis: QC Batch: Prep Batch: | BTEX 37546 32547 | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared I | By: MT |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|---|-------------------------------------|------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| Benzene | | | < 0.0100 | | mg/Kg | - / · · · · · · · · · · · · · · · · · · | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | 3 | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xvlene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 0.900 | mg/K | g 1 | 1.00 | 90 | 52.1 - 131 |
| 4-Bromofluor | robenzene (4-BFB) | | 0.805 | mg/K | | 1.00 | 80 | 48.7 - 146 |

¹⁰High surrogate recovery due to peak interference.

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|---|---------------------------------------|---------------|---|-----------------------------------|-----------------------|--|------------------------------|--|
| Sample: 12 | 5579 - SB6 @ 15 | | | | | | | |
| Analysis: | Chloride (IC) | | Analytical M | ethod: E 300 | 1.0 | Prep Metho | d: N/A | |
| QC Batch: | 38312 | | Date Analyze | ed: 2007- | 06-19 | Analyzed B | : ER | |
| Prep Batch: | 33171 | | Sample Prepa | aration: 2007- | 06-18 | Prepared B | \sim ER | |
| | | | RL | | | | | |
| Parameter | Flag | | Result | Unit | s | Dilution | \mathbf{RL} | |
| Chloride | · · · · · · · · · · · · · · · · · · · | | 1460 | mg/K | g | 100 | 1.00 | |
| Complex 12 | 5570 SD6 @ 15 | , | | | | | | |
| Analysis: | 5579 - SB6 @ 15 TPH DRO 37554 | | Analytical Meth | | | Prep Metho Analyzed B | | |
| Analysis: QC Batch: | | | Analytical Metl Date Analyzed: Sample Prepara | 2007-05 | -26 | Prep Metho Analyzed B Prepared B | v: TG | |
| Analysis: QC Batch: | TPH DRO 37554 | | Date Analyzed: | 2007-05 | -26 | Analyzed B | v: TG | |
| Analysis: QC Batch: Prep Batch: | TPH DRO 37554 | | Date Analyzed: Sample Prepara | 2007-05 | -26 -25 | Analyzed B | r: TG r: TG RL | |
| Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO | TPH DRO 37554 32551 | , | Date Analyzed: Sample Prepara RL | 2007-05 ation: 2007-05 | 26 25 | Analyzed B Prepared B | y: TG y: TG | |
| Analysis: QC Batch: Prep Batch: Parameter DRO | TPH DRO 37554 32551 Flag | , | Date Analyzed: Sample Prepara RL Result | 2007-05 ation: 2007-05 Unit | 26 25 | Analyzed B Prepared B Dilution 1 | r: TG r: TG RL | |
| Analysis: QC Batch: Prep Batch: Parameter | TPH DRO 37554 32551 Flag | Result 223 | Date Analyzed: Sample Prepara RL Result | 2007-05 ation: 2007-05 Unit | -26 -25 -ε ε | Analyzed B Prepared B Dilution 1 Percent 1 Recovery | y: TG y: TG RL 50.0 | |

Sample: 125579 - SB6 @ 15'

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| Analysis: QC Batch: Prep Batch: | QC Batch: 37547 | | Analytical Method: Date Analyzed: Sample Preparation: | | | | Prep Meth Analyzed Prepared | By: MT |
|---------------------------------------|------------------|------|---|-------|----------|--------|-----------------------------------|------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifiuorotolu | ene (TFT) | | 0.972 | mg/Kg | 1 | 1.00 | 97 | 33.2 - 160 |
| 4-Bromofiuor | obenzene (4-BFB) | | 0.869 | mg/Kg |] | 1.00 | 87 | 10 - 227 |

Sample: 125580 - SB6 @ 35'

| Analysis: | BTEX | | Analytical Method: | S 8021B | Prep Method: | S 5035 |
|-------------|-------|------|---------------------|------------|--------------|---------------|
| QC Batch: | 37546 | | Date Analyzed: | 2007-05-25 | Analyzed By: | MT |
| Prep Batch: | 32547 | | Sample Preparation: | 2007-05-25 | Prepared By: | MT |
| | | | RL | | | |
| Parameter | | Flag | Result | Units | Dilution | \mathbf{RL} |
| Benzene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Ethylbenzen | e | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| | | | | | continued | |

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sample 125580 continued ...

| | | | RL | | | | | |
|----------------------------|------|------|----------|-------|----------|--------|----------|---------------------|
| Parameter | Flag | | Result | | Units | Di | lution | RL |
| Xylene | | | < 0.0100 | | mg/Kg | |] | 0.01.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 1.11 | mg/Kg | 1 | 1.00 | 111 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-B) | FB) | | 1.01 | mg/Kg | 1 | 1.00 | 101 | 48.7 - 146 |

Sample: 125580 - SB6 @ 35'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38312 33171 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-19 2007-06-18 | Prep Method: Analyzed By: Prepared By: | , |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| Duning | | RL | T T :/ | | τī |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 461 | mg/Kg | 50 | 1.00 |

Sample: 125580 - SB6 @ 35'

| Analysis: QC Batch: Prep Batch: | TPH DRO 37554 32551 | | Analytical M Date Analyze Sample Prepa | ed: 2007-0 | | Analyz | fethod: N/A wed By: TG red By: TG |
|---------------------------------------|---------------------------|--------|--|------------|--------|----------|---|
| | | | RL | | | | |
| Parameter | Fla | ag | Result | Ur | nits | Dilution | R.L |
| DRO | | | <50.0 | mg/ | Kg | 1 | 50.0 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| n-Triacontan | e | 228 | mg/Kg | 1 | 150 | 152 | 62.5 - 164 |

Sample: 125580 - SB6 @ 35'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37547 32547 | Analytical Method: Date Analyzed: Sample Preparation: | | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared 1 | By: MT | |
|---------------------------------------|---------------------------|---|--------|-------------------------------------|----------|-------------------------------------|---------------------|--------------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 1.20 | mg/Kg | 1 | 1.00 | 120 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.10 | mg/Kg | 1 | 1.00 | 110 | 10 - 227 |

| 5581 - SB7 @ 1' BTEX 37618 32598 | | Appletical | | | Work Order: 7052526 State M SWD | | | |
|--|--|--|---|---|--|---|--|---|
| 37618 | | A malartical NA | | | | | | |
| | | Analytical M Date Analyze Sample Prepa | ed: 2 | 8021B 007-05-29 007-05-29 | | Prep Met Analyzed Prepared | By: KI | |
| Flag | | RL Result | | Unite | T | Dilution | | RI |
| | > | 0.0717 | | | | 1 | 0. | 010 |
| | | | | | | 1 | | 010 |
| • | | | | | | 1 | 0. | 010 |
| | | 0.244 | | mg/Kg | | 1 | | 010 |
| | | | | | Spike | Percent | Reco | |
| | Flag | | | | | | | |
| | | | | | | | | |
| obenzene (4-BFB) | | 0.850 | mg/Kg | 1 | 1.00 | 80 | 48.7 - | - 14 |
| 5581 - SB7 @ 1' Chloride (IC) 38352 33202 | | Date An | alyzed: | 2007-06-2 | | Analyze | ed By: | N/J ER ER |
| 00202 | | | Prenaration | | | | | |
| | | - | Preparation | 1. 2001-00-1 | | | | |
| Flag | | RL | Preparation | Units | | - | | RI |
| Flag | | - | Preparation | | | Dilution 5 | - | |
| 5581 - SB7 @ 1' | | RL Result 42.8 | | Units mg/Kg | | Dilution 5 | - | 1.0 |
| 5581 - SB7 @ 1' TPH DRO | | RL Result 42.8 Analytical | Method: | Units mg/Kg Mod. 8015E | | Dilution 5 Prep M | ethod: | 1.0 N/J |
| 5581 - SB7 @ 1' | | RL Result 42.8 | Method: vzed: | Units mg/Kg Mod. 8015E 2007-05-26 | | Dilution 5 | ethod: | 1.0 N/A TG |
| 5581 - SB7 @ 1' TPH DRO 37554 32351 | | RL Result 42.8 Analytical Date Analy Sample Pro RL | Method: vzed: | Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25 | | Dilution 5 Prep M Analyze Prepare | ethod: | 1.0 N/J TG TG |
| 5581 - SB7 @ 1' TPH DRO 37554 32551 Flag | | RL Result 42.8 Analytical Date Analy Sample Pro RL Result | Method: vzed: | Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25 Units | | Dilution 5 Prep M Analyze Prepare Dilution | ethod: | 1.0 N/J TG TG RJ |
| 5581 - SB7 @ 1' TPH DRO 37554 32351 | | RL Result 42.8 Analytical Date Analy Sample Pro RL | Method: vzed: | Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25 | | Dilution 5 Prep M Analyze Prepare Dilution 1 | ethod: ed By: ed By: | 1.0 N/J TG TG R <u>50</u> . |
| 5581 - SB7 @ 1' TPH DRO 37554 32551 Flag | Result | RL Result 42.8 Analytical Date Analy Sample Pro RL Result | Method: vzed: eparation: | Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25 Units mg/Kg | | Dilution 5 Prep M Analyze Prepare Dilution | ethod: | |
| • | ene (TFT) obenzene (4-BFB) 5581 - SB7 @ 1' Chloride (IC) 38352 | Flag ene (TFT) obenzene (4-BFB) 5581 - SB7 @ 1' Chloride (IC) 38352 | 0.0699 0.157 0.244 Flag re (TFT) 0.664 obenzene (4-BFB) 0.856 5581 - SB7 @ 1' Chloride (IC) 38352 Date An | 0.0699 0.157 0.244 Flag Result units ene (TFT) 0.664 obenzene (4-BFB) 0.856 5581 - SB7 @ 1' Chloride (IC) Analytical Method: 38352 Date Analyzed: | 0.0699 mg/Kg 0.157 mg/Kg 0.244 mg/Kg Flag Result Units Dilution 0.664 mg/Kg me (TFT) 0.664 mg/Kg obenzene (4-BFB) 0.856 mg/Kg 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-24 | 0.0699 mg/Kg 0.157 mg/Kg 0.244 mg/Kg 0.244 mg/Kg Flag Result Units Dilution Amount me (TFT) 0.664 mg/Kg 1 1.00 obenzene (4-BFB) 0.856 mg/Kg 1 1.00 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-20 | 0.0699 mg/Kg 1 0.157 mg/Kg 1 0.244 mg/Kg 1 0.244 mg/Kg 1 Spike Percent Flag Result Units Dilution Amount Recovery me (TFT) 0.664 mg/Kg 1 1.00 66 obenzene (4-BFB) 0.856 mg/Kg 1 1.00 86 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 Prep M 38352 Date Analyzed: 2007-06-20 Analyzed | 0.0699 ng/Kg 1 0. 0.157 ng/Kg 1 0. 0.244 mg/Kg 1 0. Spike Percent Recovery Lim me (TFT) 0.664 mg/Kg 1 1.00 66 52.1 obenzene (4-BFB) 0.856 mg/Kg 1 1.00 86 48.7 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 Prep Method: 38352 Date Analyzed: 2007-06-20 Analyzed By: |

¹¹High surrogate recovery due to peak interference.

sample 125581 continued ...

| D | | | RL | | T | T | ·] | RL |
|---------------------|-------------|------|---------------|-------|----------|--------|----------|---------------------|
| Parameter | Flag | | Result | | Units | D | ilution | <u></u> |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Unite | Ď | ilution | \mathbf{RL} |
| GRO | | | 21.1 | | mg/Kg | | 1 | 1.00 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (T | 'FT) | | 0.756 | mg/Kg | 1 | 1.00 | 76 | 33.2 - 160 |
| 4-Bromofluorobenz | ene (4-BFB) | | 1.16 | mg/Kg | 1 | 1.00 | 116 | 10 - 227 |

Sample: 125582 - SB7 @ 3'

| Analysis: QC Batch: Prep Batch: | BTEX 37618 32598 | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-29 2007-05-29 | | Prep Metl Analyzed Prepared ! | By: KB |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|--------|-------------------------------------|------------|
| | · | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | Di | lution | RL |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzene | 3 | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | 0.478 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolu | ene (TFT) | | 0.722 | mg/Kg | z 1 | 1.00 | 72 | 52.1 - 131 |
| 4-Bromofluor | obenzene (4-BFB) | | 1.10 | mg/Kg | - | 1.00 | 110 | 48.7 - 146 |

Sample: 125582 - SB7 @ 3'

| Analysis: QC Batch: | Chloride (IC) 38352 | Analytical Method: Date Analyzed: | E 300.0 2007-06-20 | Prep Method: Analyzed By: | |
|------------------------|------------------------|--------------------------------------|-----------------------|------------------------------|------|
| Prep Batch: | 33202 | Sample Preparation: | 2007-06-19 | Prepared By: | ER |
| | | \mathbf{RL} | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 41.6 | mg/Kg | 5 | 1.00 |

Sample: 125582 - SB7 @ 3^{*}

| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
|-------------|---------|---------------------|------------|--------------|------------------------|
| QC Batch: | 37554 | Date Analyzed | 2007-05-26 | Analyzed By: | TG |
| Prep Batch: | 32551 | Sample Preparation: | 2007-05-25 | Prepared By: | $\mathbf{T}\mathbf{G}$ |

continued ...

| Report Date: Jun State M SWD | ne 20, 2007 | | | Order: 7052526 ate M SWD | | Page Number: 36 Buckeye | | |
|---------------------------------|-------------|--------|---------------------|-----------------------------|--------|----------------------------|------------|--|
| sample 125582 co | ntinued | | | | | | | |
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | 5 | Result | Uni | ts | Dilution | RL | |
| | | | RL | | | | | |
| Parameter | Flag | | Result | Uni | US. | Dilution | RL | |
| DRO | | | 4380 | mg/k | (g | 10 | 50.0 | |
| | | | | | Spike | Percent | Recovery | |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits | |
| n-Triacontane | 12 | 1410 | mg/Kg | 10 | 150 | 940 | 62.5 - 164 | |

Sample: 125582 - SB7 @ 3'

| Analysis: TPH GRO QC Batch: 37549 Prep Batch: 32548 | | | Date Analyzed: | | S 8015B 2007-05-25 2007-05-25 | 5-25 Analyzed | | By: MT |
|---|-------------------|------|----------------|-------|-------------------------------------|-----------------|---------------------|--------------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | RL |
| GRO | | _= | 73.9 | | mg/Kg | | 20 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 0.549 | mg/Kg | 20 | 1.00 | 55 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.46 | mg/Kg | 20 | 1.00 | 146 | 10 - 227 |

Sample: 125583 - SB7 @ 5'

| Analysis: QC Batch: Prep Batch: | BTEX 37548 32548 | | Analytical M Date Analyze Sample Prepa | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared 1 | $\mathbf{B}_{\mathbf{Y}}$: MT |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|--------|-------------------------------------|--------------------------------|
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | Di | lution | \mathbf{RL} |
| Benzene | | | 1.24 | | mg/Kg | | 20 | 0.0100 |
| Toluene | | | < 0.200 | | mg/Kg | | 20 | 0.0100 |
| Ethylbenzene | | | 0.948 | | mg/Kg | | 20 | 0.0100 |
| Xvlene | | | 4.05 | | mg/Kg | | 20 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotolue | ene (TFT) | 13 | 0.521 | mg/Kg | g 20 | 1.00 | 52 | 52.1 - 131 |
| 4-Bromofluor | obenzene (4-BFB) | | 0.600 | mg/Kg | g <u>20</u> | 1.00 | 6 0 | 48.7 - 146 |

Sample: 125583 - SB7 @ 5'

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|-------------|---------------|---------------------|------------|--------------|---------------|
| QC Batch: | 38312 | Date Analyzed: | 2007-06-19 | Analyzed By: | ER |
| Prep Batch: | 33171 | Sample Preparation: | 2007-06-18 | Prepared By: | \mathbf{ER} |

¹²High surrogate recovery due to peak interference.
 ¹³Surrogate out due to peak interference.

| State M SWD | me 20, 2007 | | Wo | rk Order: State M S | | | Page Number: 37 of T Buckeye N | | |
|--|--|---------------------------------------|---|--|---|--|--|--|--|
| | | | RL | | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RI | |
| Chloride | | | 210 | | mg/Kg | | 50 | 1.00 | |
| Sample: 12558 | 3 - SB7 @ 5' | | | | | | | | |
| • | PH DRO | | Analytical | | Mod. 8013 | | Prep M | | |
| • | 554 | | Date Anal | | 2007-05-26 | | Analyze | | |
| Prep Batch: 32 | 551 | | Sample Pr | eparation: | 2007-05-23 | ō | Prepare | ed By: TG | |
| | | | RL | | * * *. | | D .1 /1 | Ð | |
| Parameter | Flag | | Result | | Units | <u></u> | Dilution | RI | |
| DR.O | | · · · · · · · · · · · · · · · · · · · | 16700 | | mg/Kg | | 10 | 50.0 | |
| Countries to the | | Dec V | ۲ ۰۰, | T | | Spike | Percent | Recovery | |
| Surrogate n-Triacontane | Flag | Result 2490 | Units mg/Kg | | ution 10 | Amount 150 | Recovery 1660 | Limits 62.5 - 164 | |
| | | | | | | | | | |
| | | | | | | | | | |
| Sample: 12558 | 3 - SB7 @ 5' | | | | | | | | |
| Analysis: Tl | 3 - SB7 @ 5' PH GRO | | Analytical | | S 8015B | | Prep Met | hod: S 503 | |
| Analysis: Tl QC Batch: 37 | PH GRO 549 | | Analytical Date Anal | | S 8015B 2007-05-23 | õ | Analyzed | By: MT | |
| Analysis: Tl QC Batch: 37 | PH GRO | | | yzed: | 2007-05-23 | | | By: MT | |
| Analysis: TI QC Batch: 37 Prep Batch: 32 | PH GRO 549 548 | | Date Anal | yzed: | 2007-05-23 | | Analyzed Prepared | By: MT | |
| Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter | PH GRO 549 | | Date Anal Sample Pr | yzed: | 2007-05-23 | | Analyzed | By: MT | |
| Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter | PH GRO 549 548 | | Date Anal Sample Pr RL | yzed: | 2007-05-23 2007-05-23 | | Analyzed Prepared | By: MT By: MT | |
| Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter GRO | PH GRO 549 548 | | Date Anal Sample Pr RL Result 377 | yzed: | 2007-05-23 2007-05-23 Units mg/Kg | 5 Spike | Analyzed Prepared Dilution 20 Percent | By: MT By: MT RJ 1.0 Recovery | |
| Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate | PH GRO 549 548 Flag | Flag | Date Anal Sample Pr RL Result 377 Result | yzed: eparation: Units | 2007-05-23 2007-05-23 Units mg/Kg Dilution | 5 Spike n Amount | Analyzed Prepared Dilution 20 Percent Recovery | By: MT By: MT RJ 1.0 Recovery Limits | |
| Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene | PH GRO 549 548 Flag (TFT) | Flag | Date Anal Sample Pr RL Result 377 Result 0.696 | yzed: eparation: Units mg/Kg | 2007-05-23 2007-05-23 Units mg/Kg Dilution 20 | 5 Spike n Amount 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 | |
| QC Batch: 37 | PH GRO 549 548 Flag (TFT) | Flag | Date Anal Sample Pr RL Result 377 Result | yzed: eparation: Units | 2007-05-23 2007-05-23 Units mg/Kg Dilution | 5 Spike n Amount | Analyzed Prepared Dilution 20 Percent Recovery | By: MT By: MT RJ 1.0 Recovery Limits | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofluorobe | PH GRO 549 548 Flag (TFT) enzene (4-BFB) | | Date Anal Sample Pr RL Result 377 Result 0.696 | yzed: eparation: Units mg/Kg | 2007-05-23 2007-05-23 Units mg/Kg Dilution 20 | 5 Spike n Amount 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 | PH GRO 549 548 Flag (TFT) enzene (4-BFB) | | Date Anal Sample Pr RL Result 377 Result 0.696 | yzed: eparation: Units mg/Kg mg/Kg | 2007-05-23 2007-05-23 Units mg/Kg Dilution 20 | 5 Spike n Amount 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' | PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 | yzed: eparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 <u>Units</u> mg/Kg Dilution 20 20 | 5 Spike n Amount 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 | PH GRO 549 548 (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ FEX | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M | yzed: reparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 20 20 S 8021B | 5 Spike n Amount 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Irifluorotoluene 4-Bromofluorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 | PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548 | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz | yzed: reparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 20 20 S 8021B 2007-05-25 | 5 Spike n Amount 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofluorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter | PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result | yzed: reparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 | 5 Spike n Amount 1.00 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution | By: MT By: MT Rl 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT By: MT | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter Benzene | PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548 | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result 6.46 | yzed: reparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg | 5 Spike n Amount 1.00 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution 20 | By: MT By: MT Rl 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT Rl 0.010 | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter Benzene Toluene | PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548 | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result 6.46 0.770 | yzed: reparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg | 5 Spike n Amount 1.00 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution 20 20 | By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT RJ 0.010 0.010 | |
| Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter Benzene | PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548 | | Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result 6.46 | yzed: reparation: Units mg/Kg mg/Kg fethod: | 2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg | 5 Spike n Amount 1.00 1.00 | Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution 20 | By: MT By: MT Rl 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT Rl 0.010 | |

¹⁴High surrogate recovery due to peak interference.

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|-----------------------------|--|-------------|---|-------------------------|----------------------------------|---------------------------------|----------------------|------------------------|
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluen | ie (TFT) | 15 | 0.456 | mg/Kg | 20 | 1.00 | 46 | 52.1 - 131 |
| | benzene (4-BFB) | 16 | 3.49 | mg/Kg | 20 | 1.00 | 349 | 48.7 - 146 |
| | | | | | | | | ۰. |
| Sample: 1258 | 584 - SB7 @ 20' | | | | | | | |
| | Chloride (IC) | | Analyti | cal Method | : E 300.0 | | Prep M | |
| • | 38312 | | Date Ar | | 2007-06-1 | 19 | Analyze | |
| Prep Batch: | 33171 | | Sample | Preparatio | n: 2007-06-1 | 18 | Prepare | ed By: ER |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| Chloride | | | 19.0 | | mg/Kg | | 5 | 1.00 |
| | | | | | | | | |
| Sample: 125 | 584 - SB7 @ 20' | | | | | | | |
| Analysis: ' | TPH DRO | | Analytica | Method. | Mod. 8015 | В | Prep M | ethod: N/A |
| • | 37678 | | Date Ana | | 2007-05-30 | | Analyze | |
| - | 32609 | | | reparation: | | | Prepare | |
| -, | | | | | 2001 00 20 | | | |
| _ | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| DRO | | | 6620 | | mg/Kg | | 10 | 50.0 |
| a . | 57 | D 1. | 1 11 | | | Spike | Percent. | Recovery |
| Surrogate | Flag | Result | Units | | | Amount | Recovery | Limits |
| n-Triacontane | | 1020 | mg/Kg | <u> </u> | 10 | 150 | 680 | 62.5 - 164 |
| Sample: 125 | 584 - SB7 @ 20' | | | | | | | |
| Analysis: ' | TPH GRO | | Analytical | Method | S 8015B | | Prep Met | hod: S 5035 |
| | 37549 | | Date Anal | | 2007-05-25 | | Analyzed | |
| | 32548 | | | reparation: | 2007-05-25 | | Prepared | |
| | | | RL | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL |
| GRO | | | 1010 | | mg/Kg | | 20 | 1.00 |
| . . | | | T | T 3 (1) | | Spike | Percent | Recovery |
| | | Flag | | | | | | Limits |
| | | 18 | | | | | | 33.2 - 160 10 - 227 |
| Sample: 125 | ne (TFT) benzene (4-BFB) 585 - SB7 @ 39' BTEX | Flag 18 | Result 0.452 9.54 Analytical M | Units mg/Kg mg/Kg | Dilution 2() 20 S 8021B | Spike Amount 1.00 1.00 | | Li 33.2 10 |
| • | 37618 | | Date Analyz | | 2007-05-29 | | | |
| - | 32598 | | Sample Prep | | 2007-05-29 | | Analyzed Prepared | |
| crep Dabun. | 02030 | | oamme r rej | Jai a 61011: | 2007-00-29 | | r repared | DÂ: VĐ |

.

¹⁵Surrogate out due to peak interference.
¹⁶High surrogate recovery due to peak interference.
¹⁷High surrogate recovery due to peak interference.
¹⁸High surrogate recovery due to peak interference.

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|---|------|--------------|---------------------------|----------|-------------------------------------|----------|------------|
| Parameter FI | ag | RL Result | | Units | Di | lution | RL |
| Benzene | | 73.8 | | mg/Kg | | 200 | 0.0100 |
| Toluene | | 46.5 | | mg/Kg | | 200 | 0.0100 |
| Ethylbenzene | | 170 | | mg/Kg | | 200 | 0.0100 |
| Xylene | | 269 | | mg/Kg | | 200 | 0.0100 |
| | | | | | Spike | Percent | Recovery |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | 0.588 | mg/Kg | 200 | 1.00 | 59 | 52.1 - 131 |
| 4-Bromofluorobenzene (4-BFB |) 19 | 20.8 | mg/Kg | 200 | 1.00 | 2080 | 48.7 - 146 |

Sample: 125585 - SB7 @ 39'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38352 33202 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-20 2007-06-19 | Prep Method: Analyzed By: Prepared By: | ĒR |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 24.9 | mg/Kg | ō | 1.00 |

Sample: 125585 - SB7 @ 39'

| Analysis: QC Batch: Prep Batch: | TPH DRO 37554 32551 | | Analytical M Date Analyze Sample Prepa | ed: | Mod. 80 2007-05- 2007-05- | 26 | • | fethod: ed By: ed By: | N/A TG TG |
|---------------------------------------|---------------------------|---------------------------------------|--|-------|---------------------------------|--------|----------|-----------------------------|-----------------|
| | | | RL | | | | | | |
| Parameter | E | lag | Result | | Units | 5 | Dilution | | RL |
| DRO | | · · · · · · · · · · · · · · · · · · · | 21600 | ····· | mg/Kg | z | 10 | | 50.0 |
| | | | | | | Spike | Percent | Rec | overy |
| Surrogate | Flag | Result | Units | Dilut | ion | Amount | Recovery | Li | mits |
| n-Triacontan | e 20 | 1520 | mg/Kg | 10 | | 150 | 1013 | 62.5 | - 164 |

Sample: 125585 - SB7 @ 39'

| Analysis: QC Batch: | TPH GRO 37619 | Analytical Method: Date Analyzed: | S 8015B 2007-05-29 | Prep Method: Analyzed By: | |
|------------------------|------------------|--------------------------------------|-----------------------|------------------------------|------------------------|
| Prep Batch: | 32598 | Sample Preparation: | 2007-05-29 | Prepared By: | KB |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | $\mathbf{R}\mathbf{L}$ |
| GRO | | 8800 | mg/Kg | 200 | 1.00 |

¹⁹High surrogate recovery due to peak interference. ²⁰High surrogate recovery due to peak interference.

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|---|------|--------------|-------------------------|------------|-----------------|-------------------------------------|--------------------|--|
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
| Triffuorotoluene (TFT) | 21 | 8.31 | mg/Kg | 200 | 1.00 | 831 | 33.2 - 160 | |
| 4-Bromofluorobenzene (4-BFB) | 22 | 108 | mg/Kg | 200 | 1.00 | 10800 | 10 - 227 | |
| Sample: 125586 - SB8 @ 1' | | | | | | | | |
| Analysis: BTEX | | Analytical N | fethod: | S 8021B | | Prep Metl | nod: S 5035 | |
| QC Batch: 37546 | | Date Analyz | zed: | 2007-05-25 | | Analyzed | By: MT | |
| Prep Batch: 32547 | | Sample Prej | paration: | 2007-05-25 | | Prepared | By: MT | |
| | | RL | J | | | | | |
| Parameter Flag | | Result | 5 | Units | Di | lution | RL | |
| Benzene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 | |
| Toluene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 | |
| Ethylbenzene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 | |
| Xylene | | < 0.0100 |) | mg/Kg | | 1 | 0.0100 | |
| · | | | | | Spike | Percent | Recovery | |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Limits | |
| Trifluorotoluene (TFT) | | 1.13 | mg/Kg | 1 | 1.00 | 113 | 52.1 - 131 | |
| 4-Bromofluorobenzene (4-BFB) | | 1.05 | mg/Kg | | 1.00 | 105 | 48.7 - 146 | |

Sample: 125586 - SB8 @ 1'

| Analysis: QC Batch: Prep Batch: | Chloride (IC) 38312 33171 | Analytical Method: Date Analyzed: Sample Preparation: | E 300.0 2007-06-19 2007-06-18 | Prep Method Analyzed By Prepared By: | ER |
|---------------------------------------|---------------------------------|---|-------------------------------------|--|------|
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chioride | | 10800 | mg/Kg | 1000 | 1.00 |

Sample: 125586 - SB8 @ 1'

| Analysis: QC Batch: Prep Batch: | TPH DRO 37555 32551 | | Analytical Me Date Analyze Sample Prepa | d: | Mod. 80 2007-05 2007-05 | -26 | Prep M Analyz Prepar | • | N/A TG TG |
|---------------------------------------|---------------------------|--------|---|-------|-------------------------------|-----------------|----------------------------|------|-----------------|
| | ι. | | \mathbf{RL} | | | | | | |
| Parameter | Flag | 5 | Result | | Unit | s | Dilution | | RL |
| DRO | | | | <50.0 | | g | 1 | | 50.0 |
| Surrogate | Flag | Result | Units | Dilu | tion | Spike Amount | Percent Recovery | | overy mits |
| n-Triacontan | e | 227 | mg/Kg | | [| 150 | 151 | 62.8 | - 164 |

²¹High surrogate recovery due to peak interference. ²²High surrogate recovery due to peak interference.

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| | | |

Sample: 125586 - SB8 @ 1'

| Analysis: QC Batch: Prep Batch: | TPH GRO 37547 32547 | | Analytical Date Anal Sample Pr | yzed: | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed I Prepared I | By: MT |
|---------------------------------------|---------------------------|------|--------------------------------------|-------|-------------------------------------|-----------------|---------------------------------------|--------------------|
| | | | \mathbf{RL} | | | | | |
| Parameter | Flag | | Result | | Units | D | ilution | \mathbf{RL} |
| GRO | | | 5.65 | | mg/Kg | | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotolu | ene (TFT) | | 1.21 | mg/Kg | 1 | 1.00 | 121 | 33.2 - 160 |
| 4-Bromofluor | robenzene (4-BFB) | | 1.25 | mg/Kg | 1 | 1.00 | 125 | 10 - 227 |

Sample: 125587 - SB8 @ 3'

| Analysis: QC Batch: Prep Batch: | BTEX 37546 32547 | | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Meth Analyzed I Prepared I | By: MT |
|---------------------------------------|------------------------|------|--|-------|-------------------------------------|--------|---------------------------------------|---------------|
| | | | RL | | | | | |
| Parameter | Fla | ug: | Result | | Units | D | ilution | \mathbf{RL} |
| Benzene | ····· | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Toluene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Ethylbenzen | 9 | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| Xylene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 |
| | | | | | | Spike | Percent | Recovery |
| Surrogate | | Flag | Result | Units | Dilution | Amount | Recovery | Limits |
| Trifiuorotolu | ene (TFT) | | 1.04 | mg/K | g 1 | 1.00 | 104 | 52.1 - 131 |
| 4-Bromofluor | robenzene (4-BFB) | | 0.959 | mg/K | - | 1.00 | 96 | 48.7 - 146 |

Sample: 125587 - SB8 @ 3'

.

| Analysis: Chloride (IC) | | Analytical Method: E 300.0 | | Prep Method: | N/A |
|-------------------------|-------|----------------------------|------------|--------------|---------------|
| QC Batch: | 38352 | Date Analyzed: | 2007-06-20 | Analyzed By: | \mathbf{ER} |
| Prep Batch: | 33202 | Sample Preparation: | 2007-06-19 | Prepared By: | \mathbf{ER} |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 290 | mg/Kg | 50 | 1.00 |

Sample: 125587 - SB8 @ 3'

| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
|-------------|---------|---------------------|------------|--------------|-----|
| QC Batch: | 37555 | Date Analyzed: | 2007-05-26 | Analyzed By: | ΤĠ |
| Prep Batch: | 32551 | Sample Preparation: | 2007-05-25 | Prepared By: | ΤG |

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|--|---------------------------------------|--------|---------------------------------------|----------------|-------------------------------------|-----------------|-------------------------------------|----------------------------------|--|
| | ורד | | RL | | | | | ni | |
| Parameter DRO | Flag | | Result | | Units | | Dilution | RL | |
| | | | < 50.0 | | mg/Kg | | 1 | 50.0 | |
| Surrogate | Flag | Result | Units | Dil | ution | Spike Amount | Percent Recovery | Recovery Limits | |
| a-Triacontane | · · · · · · · · · · · · · · · · · · · | 227 | mg/Kg | | 1 | 150 | 151 | 62.5 - 164 | |
| Sample: 125585 | 7 - SB8 @ 3' | | | | | | | | |
| Analysis: TP QC Batch: 375 Prep Batch: 325 | | | Analytical Date Analy Sample Pr | yzed: | S 8015B 2007-05-25 2007-05-25 | | Prep Metl Analyzed Prepared | By: MT | |
| Parameter | Floor | | RL Result | | Units | | Dilution | RL | |
| GRO | Flag | | <1.00 | | mg/Kg | |] | 1.00 | |
| | | | <1.00 | | mg/mg | <u> </u> | <u>_</u> | | |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
| Trifluorotoluene (| TFT) | t me | 1.12 | mg/Kg | 1 | 1.00 | 112 | 33.2 - 160 | |
| 4-Bromofluorober | | | 1.05 | mg/Kg | 1 | 1.00 | 105 | 10 - 227 | |
| Sample: 125588 | 8 - SB8 @ 5' | | | | | | | | |
| Analysis: BT | ΈX | | Analytical M | [ethod· | S 8021B | | Prep Met | hod: S 5035 | |
| QC Batch: 375 | | | Date Analyz | | 2007-05-25 | | Analyzed | | |
| Prep Batch: 325 | | | Sample Prep | | 2007-05-25 | | Prepared | | |
| | | | RL | | | | | | |
| Parameter | Flag | [| Result | | Units | I | Dilution | RI | |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 | |
| 10110000 | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 | |
| | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 | |
| Ethylbenzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 | |
| Ethylbenzene | | | | | | | | | |
| Toluene Ethylbenzene Xylene | | | Becult | Linite | Dilution | Spike Amount | Percent | Recovery Limits | |
| Ethylbenzene | TFT) | Flag | Result | Units mg/Kg | Dilution | | Percent Recovery 107 | Recovery Limits 52.1 - 131 | |

Sample: 125588 - SB8 @ 5'

| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
|-------------|---------------|---------------------|------------|--------------|---------------|
| QC Batch: | 38352 | Date Analyzed: | 2007-06-20 | Analyzed By: | \mathbf{ER} |
| Prep Batch: | 33202 | Sample Preparation: | 2007-06-19 | Prepared By: | ER |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 303 | mg/Kg | 50 | 1.00 |

| Report Date: June 20, 2007 State M SWD | | | Work Order: 7052526 State M SWD | | | | Page Number: 43 of 71 Buckeye,NM | | |
|---|---|------------|--|------------|---------------------------------------|-----------------|-------------------------------------|--------------------|--|
| Sample: 125 | 5588 - SB8 @ 5' | | | | | | | | |
| Analysis: QC Batch: Prep Batch: | TPH DRO 37555 32551 | | Analytical Date Analy Sample Pre | vzed: | Mod. 8015 2007-05-26 2007-05-25 | | Prep M Analyze Prepare | ed By: TG | |
| | | | RL | | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL | |
| DRO | | | <50.0 | | mg/Kg | |] | 50.0 | |
| | | | | | | Spike | Percent | Recovery | |
| Surrogate | Flag | Result | Units | Dil | ution | Amount | Recovery | Limits | |
| n-Triacontane | | 226 | mg/Kg | | 1 | 150 | 151 | 62.5 - 164 | |
| Sample: 12: | 5588 - SB8 @ 5' | | | | | | | | |
| Analysis: | TPH GRO | | Analytical | | S 8015B | | Prep Met | | |
| QC Batch: | 37547 | | Date Anal | | 2007-05-25 | | Analyzed | | |
| Prep Batch: | 32547 | | Sample Pr | eparation: | 2007-05-25 | | Prepared | By: MT | |
| | | | \mathbf{RL} | | | | | | |
| Parameter | Flag | | Result | | Units | | Dilution | RL | |
| GRO | | | <1.00 | | mg/Kg | | 1 | 1.00 | |
| | | | | | | Spike | Percent | Recovery | |
| Surrogate | • | Flag | Result | Units | Dilution | | | Limits | |
| Trifluorotolue | . , | | 1.16 | mg/Kg | 1 | 1.00 | 116 | 33.2 - 160 | |
| 4-Bromofluor | obenzene (4-BFB) | | 1.07 | mg/Kg | 1 | 1.00 | 107 | 10 - 227 | |
| Sample: 12 Analysis: QC Batch: Prep Batch: | 5589 - SB8 @ 20 BTEX 37546 32547 | , , | Analytical M Date Analyz Sample Prep | ed: | S 8021B 2007-05-25 2007-05-25 | | Prep Met Analyzed Prepared | By: MT | |
| Parameter | Fla | g | RL Result | | Units | | Dilution | RL | |
| Benzene | | | < 0.0100 | | mg/Kg | | 1 | 0.0100 | |
| Toluene | | | <0.0100 | | mg/Kg | | 1 | 0.0100 | |
| Ethylbenzene | 3 | | < 0.0100 | | mg/Kg | | 1 | 0.0100 | |
| Xvlene | | ··· | < 0.0100 | | mg/Kg | ····· | 11 | 0.0100 | |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
| Trifluorotolue | | 23 | 1.33 | mg/Kg | 1 | 1.00 | 133 | 52.1 - 131 | |
| 1 10 10 | obenzene (4-BFB) | | 1.22 | mg/Kg | 1 | 1.00 | 122 | 48.7 - 146 | |

²³High surrogate recovery. Sample non-detect, result bias high.

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|---|-------------------|--------------------------------|------------------------------------|-------------|--------|
| Sample: 12 | 25589 - SB8 @ 20' | | | | |
| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Metho | d: N/A |
| QC Batch: | 38352 | Date Analyzed: | 2007-06-20 | Analyzed By | : ER |
| Prep Batch: | 33202 | Sample Preparation: 2007-06-19 | | Prepared By | : ER |
| | | RL | | | |
| Parameter | Flag | Result | Units | Dilution | RL |
| Chloride | | 2190 | mg/Kg | 100 | |

Sample: 125589 - SB8 @ 20'

| Analysis: QC Batch: Prep Batch: | TPH DRO 37555 32551 | | Analytical Me Date Analyze Sample Prepa | d: 2007-0 | 5-26 | Prep N Analyz Prepar | - |
|---------------------------------------|---------------------------|---------------|---|---------------|------------------------|----------------------------|----------------------------------|
| Parameter | Fì | ag | RL Result | Un | its | Dilution | RL |
| DRO | | | | mg/. | Kg | 1 | 50.0 |
| Surrogate n-Triacontan | Flag | Result 230 | Units mg/Kg | Dilution 1 | Spike Amount 150 | Percent Recovery 153 | Recovery Limits 62.5 - 164 |

Sample: 125589 - SB8 @ 20'

| Analysis: QC Batch: Prep Batch: | | | Analytical Method: Date Analyzed: Sample Preparation: | | S 8015B 2007-05-25 2007-05-25 | | Prep Meth Analyzed Prepared 1 | By: MT |
|---------------------------------------|-----------|------|---|-------|-------------------------------------|--|-------------------------------------|--------------------|
| | | | RL | | | | | |
| Parameter Flag | | | Result | | Units | Dilution | | RL |
| GRO | | | <1.00 | | mg/Kg | ······································ | 1 | 1.00 |
| Surrogate | | Flag | Result | Units | Dilution | Spike Amount | Percent Recoverv | Recovery Limits |
| Trifluorotolu | ene (TFT) | 0 | 1.20 | mg/Kg | 1 | 1.00 | 120 | 33.2 - 160 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.24 | mg/Kg | 1 | 1.00 | 124 | 10 - 227 |

Sample: 125590 - SB8 @ 39'

| Analysis: QC Batch: Prep Batch: | BTEX 37546 32547 | | Analytical Method: Date Analyzed: Sample Preparation: | S 8021B 2007-05-25 2007-05-25 | · Prep Method: Analyzed By: Prepared By: | |
|---------------------------------------|------------------------|------|---|-------------------------------------|--|--------|
| | | | RL | | | |
| Parameter | | Flag | Result | Units | Dilution | RL |
| Benzene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Toluene | | | < 0.0100 | mg/Kg | 1 | 0.0100 |
| Ethylbenzen | e | | < 0.0100 | mg/Kg | 1 | 0.0100 |

continued

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| Report Date: June 20, 2007 State M SWD | | | Work Order: 7052526 State M SWD | | | Page Number: 45 of 7 Buckeye,NN | | | |
|--|--|---|--|--|--|--|--|--|--|
| 0 continued | | | | | | | | | |
| | | RL | | | | | | | |
| Flag | | Result | | Units | | Dilution | | RL | |
| Vylene | | <0.0100 | | mg/Kg | |] | 0.0100 | | |
| | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | | overy: mits | |
| | | 1.14 | mg/Kg | 1 | 1.00 | 114 | | - 13 | |
| obenzene (4-BFB) | | 1.04 | mg/Kg |] | 1.00 | 104 | 48.7 | - 14 | |
| 5590 - SB8 @ 39' | | | | | | | | | |
| Chloride (IC) | | Analytic | al Method: | E 300.0 | | Prep M | ethod: | N/. | |
| Analysis: Chloride (IC) QC Batch: 38352 | | | | | 20 | | | ÉŔ | |
| Prep Batch: 33202 | | Sample Preparation: 2007-06-19 | | | 19 | Prepare | ed By: | ER | |
| | | RL | | | | | | | |
| Flag | | | | | | Dilution | | R | |
| | | 263 | | mg/Kg | | 50 | | 1.0 | |
| alysis: TPH DRO Batch: 37555 ep Batch: 32551 | | | | 2007-05-26 2007-05-25 | | | | ТĠ TG | |
| 771 | | RL Durult | | Tlates | | Dibution | | Ð | |
| Flag | ··· | | | | | | | R 50. | |
| | | < 30.0 | | mg/ng | | 1 | | | |
| Ela <i>r</i> | Pagult | Tinita | Dila | tion | - | Percent | | cover mits | |
| · | | | | | | | | 5 - 16 | |
| | | 6/_0 | | | | | | | |
| 5590 - SB8 @ 39' | | | | | | | | | |
| 5590 - SB8 @ 39' TPH GRO | | Analytical | Method: | S 8015B | | Prep Met | hod: | S 303 | |
| TPH GRO 37547 | | Date Anal | yzed: | 2007-05-25 | | Analyzed | By: | MT | |
| TPH GRO | | | yzed: | | | | By: | - | |
| TPH GRO 37547 32547 | | Date Anal Sample Pr RL | yzed: | 2007-05-25 2007-05-25 | | Analyzed Prepared | By: | MT MT | |
| TPH GRO 37547 | | Date Anal Sample Pr RL Result | yzed: | 2007-05-25 2007-05-25 Units | | Analyzed Prepared Dilution | By: | MT MT R | |
| TPH GRO 37547 32547 | | Date Anal Sample Pr RL | yzed: | 2007-05-25 2007-05-25 | | Analyzed Prepared Dilution 1 | By: By: | MT MT <u>R</u> 1.0 | |
| TPH GRO 37547 32547 | Flag | Date Anal Sample Pr RL Result | yzed: | 2007-05-25 2007-05-25 Units | Spike | Analyzed Prepared Dilution 1 Percent | By: By: Ree | | |
| | D 0 continued Flag me (TFT) obenzene (4-BFB) 5590 - SB8 @ 39' Chloride (IC) 38352 33202 Flag 5590 - SB8 @ 39' TPH DRO 37555 32551 Flag Flag | 0 continued Flag Flag Plag Plag Plag S590 - SB8 @ 39' Chloride (IC) 38352 33202 Flag S590 - SB8 @ 39' TPH DRO 37555 32551 Flag Flag | $0 \ continued \dots$ $Flag Result$ $re (TFT) 0.14$ $re (TFT) 1.14$ $rote (IC) 1.04$ $Flag Result$ $re (IC) 1.04$ $Flag Result$ $re (IC) 1.04$ RL $re (IC) 1.04$ $re (IC) 1.04$ RL $re (IC) 1.04$ $re (I$ | D State M SV 0 continued RL Flag Result <0.0100 | D State M SWD 0 continued RL Flag Result Units State M SWD Vision Main Second State Plag Result Units Dilution me (TFT) 1.14 mg/Kg 1 obenzene (4-BFB) 1.04 mg/Kg 1 5590 - SB8 @ 39' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-2 33202 Sample Preparation: 2007-06-2 RL Flag Result Units Flag Result Units 5590 - SB8 @ 39' State Method: Mod. 8015 S7555 Date Analyzed: 2007-05-26 32551 Sample Preparation: 2007-05-25 Flag Result Units Flag Result Units Flag Result Units Flag Result Units Flag Result Units | D State M SWD 0 continued RL Flag Result Units Flag Result Units me (TFT) 1.14 mg/Kg 1 obenzene (4-BFB) 1.04 mg/Kg 1 1.00 5590 - SB8 @ 39' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-20 33202 Sample Preparation: 2007-06-19 RL Flag Result Units 263 mg/Kg 5590 - SB8 @ 39' Spike TPH DRO Analytical Method: Mod. 8015B 37555 2550 - SB8 @ 39' Spike Spike Spike Flag Result Units 2007-05-26 32551 Sample Preparation: 2007-05-25 RL Flag Result Units Flag Result Units Spike Flag Result Units Spike | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | D State M SWD Bucke 0 continued C RE Flag Result Units Dilution <0.0100 | |

²⁴High surrogate recovery. Sample non-detect, result bias high.

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| Report Date: June 20, 20 State M SWD | 007 | Wa | ork Order: 7 State M SV | | | | ber: 46 of 71 Buckeye,NM |
|---|---|--|--|---|--|--|--|
| sample continued | | Dec. 14 | 77.1 | T \1, 17 - 17 | Spike | Percent | Recovery Limits |
| Surrogate 4-Bromofluorobenzene (4- | Flag | Result 1.14 | Units | Dilution 1 | Amount 1.00 | Recovery 114 | 10 - 227 |
| 4-Diomontoropenzene (4- | -DFD) | 1.14 | mg/Kg | ۔ | 1.00 | | |
| Method Blank (1) | QC Batch: 37541 | | | | | | |
| QC Batch: 37541 Prep Batch: 32545 | | Date Ana QC Prepa | alyzed: 200 aration: 200 | 07-03-25 07-05-25 | | Analyze Prepare | |
| Parameter | Flag | | MD Resu | | Unit | iS. | RL |
| Benzene | | | <0.0033 | | mg/ł | | 0.01 |
| Toluene | | | <0.0037 | | mg/H | | 0.01 |
| Ethylbenzene | | | < 0.0020 |)6 | mg/H | | 0.01 |
| Xylene | | | <0.0025 | 59 | mg/H | | 0.01 |
| S | | Daardt | Units | Dibution | Spike | Percent | Recovery Limits |
| Surrogate | Flag | Result | | Dilution | Amount 1.00 | Recovery 101 | 73.2 - 113 |
| Triffuorateluone (TET) | | | | | | | 10.2 - 110 |
| 4-Bromofiuorobenzene (4 | -BFB) QC Batch: 37543 | 1.01 0.724 | mg/Kg mg/Kg | 1 | 1.00 | 72 | 54 - 102 |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 | | | mg/Kg alyzed: 20 | | | | 54 - 102 ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 | | 0.724 Date Ana | mg/Kg alyzed: 20 | 07-05-25 | | 72 Analyze | 54 - 102 ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 | | 0.724 Date Ana | mg/Kg alyzed: 20 aration: 20 | 07-05-25 | | 72 Analyze Prepare | 54 - 102 ed By: MT ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter | QC Batch: 37543 | 0.724 Date Ana | mg/Kg alyzed: 20 aration: 20 MDL | 07-05-25 | 1.00 | 72 Analyze Prepare | 54 - 102 ed By: MT ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO | QC Batch: 37543 | 0.724 Date Ana | mg/Kg alyzed: 20 aration: 20 MDL Result | 07-05-25 | 1.00 Unit | 72 Analyze Prepare | 54 - 102 ed By: MT ed By: MT RE Recovery Limits |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) | QC Batch: 37543 Flag | 0.724 Date Ana QC Prepa Result | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 | 1 07-05-25 07-05-25 | 1.00 Unit mg/F Spike Amount 1.00 | 72 Analyze Prepare s g Percent Recovery 109 | 54 - 102 ed By: MT ed By: MT <u>RL</u> 1 Recovery Limits |
| | QC Batch: 37543 Flag | 0.724 Date Ana QC Prepa | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units | 1 07-05-25 07-05-25 Dilution | 1.00 Unit mg/F Spike Amount | 72 Analyze Prepare s g Percent Recovery | 54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125 |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) | QC Batch: 37543 Flag | 0.724 Date Ana QC Prepa Result | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg | 1 07-05-25 07-05-25 Dilution 1 | 1.00 Unit mg/F Spike Amount 1.00 | 72 Analyze Prepare s g Percent Recovery 109 | 54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125 |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 | QC Batch: 37543 Flag Flag -BFB) | 0.724 Date Ana QC Prepa Result | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 | 1 07-05-25 07-05-25 Dilution 1 | 1.00 Unit mg/F Spike Amount 1.00 | 72 Analyze Prepare s g Percent Recovery 109 | 54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 123 51.9 - 110 ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 Prep Batch: 32547 | QC Batch: 37543 Flag Flag -BFB) QC Batch: 37546 | 0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20 | 1 07-05-25 07-05-25 Dilution 1 1 1 007-05-25 007-05-25 0L | 1.00 Unit mg/K Spike Amount 1.00 1.00 | 72 Analyz Prepare s 2g Percent Recovery 109 79 79 Analyz Prepare | 54 - 102 ed By: MT ed By: MT <u>RL</u> 1 <u>Recovery Limits</u> 73.2 - 123 51.9 - 110 ed By: MT ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 Prep Batch: 32547 Parameter | QC Batch: 37543 Flag Flag -BFB) | 0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20 | 1 07-05-25 07-05-25 Dilution 1 1 1 007-05-25 007-05-25 01 01t | 1.00 Unit mg/F Spike Amount 1.00 1.00 | 72 Analyza Prepare s 2g Percent Recovery 109 79 79 79 Analyz Prepare | 54 - 102 ed By: MT ed By: MT <u>RL</u> 1 <u>Recovery Limits</u> 73.2 - 123 51.9 - 110 ed By: MT ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 | QC Batch: 37543 Flag Flag -BFB) QC Batch: 37546 | 0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20 MD Resu | 1 07-05-25 07-05-25 Dilution 1 1 007-05-25 007-05-25 01 1 1 33 | 1.00 Unit mg/K Spike Amount 1.00 1.00 | 72 Analyza Prepare s Percent Recovery 109 79 79 Analyz Prepare ts Kg | 54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125 51.9 - 110 ed By: MT ed By: MT ed By: MT |
| 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 Prep Batch: 32547 Parameter Benzene | QC Batch: 37543 Flag Flag -BFB) QC Batch: 37546 | 0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana | mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20 MD Resu <0.003; | 1 07-05-25 07-05-25 Dilution 1 1 007-05-25 007-05-25 01 1 1 33 72 06 | 1.00 Unit mg/F Spike Amount 1.00 1.00 Uni mg/F | 72 Analyze Prepare s Vg Percent Recovery 109 79 79 Xnalyz Prepare ts Kg Kg | 54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125 51.9 - 110 ed By: MT |

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| Report Date: June 20, 2 State M SWD | | | ork Order: 7 State M SV | | | Page Num | ber: 47 of 7 Buckeye.NM |
|---|---|--|--|---|--|--|--|
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | 10 m m h | 0.916 | mg/Kg | 1 | 1.00 | 92 | 73.2 - 113 |
| 4-Bromofluorobenzene (4 | -BFB) | 0.675 | mg/Kg | 1 | 1.00 | 68 | 54 - 102 |
| Method Blank (1) | QC Batch: 37547 | | ¢ | · · | | | e e e e e e e e e e e e e e e e e e e |
| QC Batch: 37547 | · | Date Ana | lvzed: 200 | 07-05-25 | | Analyze | ed By: MT |
| Prep Batch: 32547 | | | aration: 200 | 07-05-25 | | Prepare | ed By: MT |
| | | | MDL | | T 7 1/ | | זמ |
| Parameter GRO | Flag | | Result <0.459 | | Units mg/K | | R1 |
| | | | <0.409 | | | | |
| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | 1.02 | mg/Kg | 1 | 1.00 | 102 | 73.2 - 12 |
| 4-Bromofluorobenzene (4 | -BFB) | 0.736 | mg/Kg | 1 | 1.00 | 74 | 51.9 - 11 |
| Method Blank (1) QC Batch: 37548 | QC Batch: 37548 | Doto And | duradi 20 | 07-05-25 | | Analyze | ed By: MT |
| • | | Date Ana QC Prepa | | 07-05-25 | | Prepare | |
| Prep Batch: 32548 | Flor | | aration: 20 MD | 07-05-25 L | Florid | Prepare | ed By: MI |
| Prep Batch: 32548 Parameter | Flag | | aration: 20 MD Resu | 07-05-25 L lt | Unit mg/J | Prepare | ed By: MI RI |
| Prep Batch: 32548 Parameter Benzene | Flag | | aration: 20 MD | 07-05-25 L lt 33 | mg/H | Prepare ts Xg | ed By: MI |
| Prep Batch: 32548 Parameter Benzene Toluene | Flag | | aration: 20 MD Resu <0.0033 | 07-05-25 L lt 33 72 | | Prepare ts Xg Xg | ed By: MI RI 0.0 0.0 |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene | Flag | | aration: 20 MD Resu <0.0033 <0.0037 | 07-05-25 L lt 33 72 06 | mg/I mg/I | Prepare ts Xg Xg | ed By: MI |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene | | QC Prep | Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 | 07-05-25 L lt 33 72 06 59 | mg/I mg/I mg/I mg/I Spike | Prepare ts Xg Xg Xg Percent | ed By: MT |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate | Flag Flag | QC Prepa | aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 Units | 07-05-25 L lt 33 72 06 59 Dilution | mg/H mg/H mg/H Spike Amount | Prepare ts Xg Xg Xg Percent Recovery | ed By: MT RI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Execover Limits |
| Prep Batch: 37548 Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 | Flag | QC Prep | Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 | 07-05-25 L lt 33 72 06 59 | mg/I mg/I mg/I mg/I Spike | Prepare ts Xg Xg Xg Percent | ed By: MT RI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Kecover, Limits 73.2 - 11 |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) | Flag | QC Prepa Result. 0.854 | Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0020 <0.0025 Units mg/Kg | 07-05-25 L lt 33 72 06 59 Dilution 1 | mg/I mg/I mg/I mg/I Spike Amount 1.00 | Prepare ^{Xg} ^{Xg} <u>Xg</u> <u>Percent</u> <u>Recovery</u> <u>85</u> | ed By: MT RI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Kecover, Limits 73.2 - 11 |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 | Flag I-BFB) | QC Prepa Result. 0.854 | aration: 20 MD Resu <0.0033 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg | 07-05-25 L lt 33 72 06 59 Dilution 1 | mg/I mg/I mg/I mg/I Spike Amount 1.00 | Prepare ^{Xg} ^{Xg} <u>Xg</u> <u>Percent</u> <u>Recovery</u> <u>85</u> | ed By: MT RI 0.0 0.0 0.0 0.0 Recover, Limits 73.2 - 11 54 - 102 |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 | Flag I-BFB) QC Batch: 37549 | QC Prepa Result 0.854 0.653 Date Ana | Aration: 20 MD Resu <0.0033 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg alyzed: 20 Aration: 20 | 07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25 | mg/I mg/I mg/I Spike Amount 1.00 1.00 | Prepare | ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 Parameter | Flag I-BFB) | QC Prepa Result 0.854 0.653 Date Ana | Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg allyzed: 20 Aration: 20 MDL Result | 07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25 | mg/I mg/I mg/I Spike Amount 1.00 1.00 | Prepare ts Xg Xg Xg Percent Recovery 85 65 Analyze Prepare s | ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 | Flag I-BFB) QC Batch: 37549 | QC Prepa Result 0.854 0.653 Date Ana | Aration: 20 MD Resu <0.0033 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg alyzed: 20 Aration: 20 | 07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25 | mg/I mg/I mg/I Spike Amount 1.00 1.00 | Prepare ts Xg Xg Xg Percent Recovery 85 65 Analyze Prepare s | ed By: MT RI 0.0 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 Parameter GRO | Flag I-BFB) QC Batch: 37549 Flag | QC Prepa Result 0.854 0.653 Date Ana QC Prepa | aration: 20 MD Resu <0.0033 <0.0037 <0.0025 Units mg/Kg mg/Kg mg/Kg ulyzed: 20 aration: 20 MDL Result <0.459 | 07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25 07-05-25 | mg/I mg/I mg/I Spike Amount 1.00 1.00 Unit mg/F Spike | Prepare Xg Xg Yg Percent Recovery 85 65 Analyze Prepare s Xg Percent | ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT Recovery |
| Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 Parameter | Flag I-BFB) QC Batch: 37549 | QC Prepa Result 0.854 0.653 Date Ana | Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg allyzed: 20 Aration: 20 MDL Result | 07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25 | mg/H mg/H mg/H Spike Amount 1.00 1.00 Unit mg/H | Prepare ts Xg Xg Xg Yercent Recovery 85 65 Analyze Prepare s Xg | ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT ed By: MT |

| State M SWD | 20, 2007 | | | ler: 7052526 M SWD | | Page Nu | mber: 48 Buckey | |
|--|------------|--|--|---|------------------------------------|--|--|--|
| Method Blank (1) | QC | Batch: 37553 | | | | | | |
| QC Batch: 37553 | | | Date Analyzed: | 2007-05-26 | | Analy | zed By: | ΤG |
| Prep Batch: 32551 | | | QC Preparation: | | | | red By: | ΤG |
| | | | N | IDL | | | | |
| Parameter | | Flag | | sult | τ | Units | · | \mathbf{RI} |
| DRO | | | < | 10.7 | m | ig/Kg | | 5(|
| | | | | | Spike | Percent | Rec | overy |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | | nits |
| n-Triacontane | | 228 | _mg/Kg | 1 | 150 | 152 | 62.5 | - 164 |
| Method Blank (1) | QC | Batch: 37554 | | | | | | |
| QC Batch: 37554 Prep Batch: 32551 | | | Date Analyzed: QC Preparation | 2007-05-26 : 2007-05-25 | | | rzed By: red By: | TG TG |
| • | | | | ADL | | | | |
| Parameter DRO | | Flag | | esult | | Units | | $\frac{R}{50}$ |
| | | | | 10.7 | 11 | ng/Kg | | |
| - | | | . | | Spike | Percent | | over |
| Surrogate | Flag | Result | Units | Dilution | Amount | Recovery | Lii | mits |
| | | 243 | mg/Kg | 1 | 150 | 162 | 62.5 | |
| n-Triacontane | | | | | | | 62.5 | |
| n-Triacontane Method Blank (1) QC Batch: 37555 | | 243 | | 1 2007-05-26 | | 162 Analy | 62.5 vzed By: ared By: | - 16 TG |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 | | 243 Batch: 37555 | mg/Kg Date Analyzed: QC Preparation N | 1 2007-05-26 : 2007-05-25 4DL | 150 | 162 Analy Prepa | zed By: | - 16 TG TG |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter | | 243 | mg/Kg Date Analyzed: QC Preparation M Re | 1 2007-05-26 : 2007-05-25 4DL esult | 150 | 162 Analy Prepa Units | zed By: | - 16 TG TG RJ |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter | | 243 Batch: 37555 | mg/Kg Date Analyzed: QC Preparation M Re | 1 2007-05-26 : 2007-05-25 4DL | 150 | 162 Analy Prepa | zed By: | - 16 TG TG RJ |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO | QC | 243 Batch: 37555 Flag | mg/Kg Date Analyzed: QC Preparation N Re < | 1 2007-05-26 : 2007-05-25 4DL esult 10.7 | 150 n Spike | 162 Analy Prepa Units 1g/Kg Percent | rzed By: ured By: Rec | - 16 TG TG RJ 50 overy |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate | | 243 Batch: 37555 Flag Result | mg/Kg Date Analyzed: QC Preparation N Re Units | 1 2007-05-26 : 2007-05-25 4DL esult 10.7 Dilution | 150 n Spike Amount | 162 Analy Prepa Units ng/Kg Percent Recovery | rzed By: ured By: Rec Li: | - 16 TG TG RI 50 over; mits |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane | QC Flag | 243 Batch: 37555 Flag Result 235 | mg/Kg Date Analyzed: QC Preparation N Re < | 1 2007-05-26 : 2007-05-25 4DL esult 10.7 | 150 n Spike | 162 Analy Prepa Units 1g/Kg Percent | rzed By: ured By: Rec Li: | - 16 TG TG R: 50 over; mits |
| n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) | QC Flag | 243 Batch: 37555 Flag Result | mg/Kg Date Analyzed: QC Preparation M Re | 1 2007-05-26 : 2007-05-25 4DL esult 10.7 Dilution 1 | 150 n Spike Amount | 162 Analy Prepa Units ng/Kg Percent Recovery 157 | rzed By: ared By: Rec Li: 62.5 | TG TG TG R: 50 over; - 16 |
| Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 | QC Flag | 243 Batch: 37555 Flag Result 235 | mg/Kg Date Analyzed: QC Preparation M Re Units mg/Kg Date Analyzed: | 1 2007-05-26 : 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 | 150 n Spike Amount | 162 Analy Prepa Units ng/Kg Percent Recovery 157 Analy | vzed By: ared By: Rec Li: 62.5 vzed By: | TG TG TG Si overy mits - 16 |
| Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 | QC Flag | 243 Batch: 37555 Flag Result 235 | mg/Kg Date Analyzed: QC Preparation M Re | 1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 | 150 n Spike Amount | 162 Analy Prepa Units ng/Kg Percent Recovery 157 Analy | rzed By: ared By: Rec Li: 62.5 | TG TG TG R: 50 over; mits - 16 KE |
| Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 | QC Flag | 243 Batch: 37555 Flag Result 235 Batch: 37618 | mg/Kg Date Analyzed: QC Preparation N Re Units mg/Kg Date Analyzed: QC Preparation | 1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 MDL | 150 n Spike Amount | 162 Analy Prepa Units <u>ng/Kg</u> Percent <u>Recovery</u> 157 Analy Prepa | vzed By: ared By: Rec Li: 62.5 vzed By: | - 16 TG TG Si over; mits - 16 KE KE |
| Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 Parameter | QC Flag | 243 Batch: 37555 Flag Result 235 | mg/Kg Date Analyzed: QC Preparation N Re Units mg/Kg Date Analyzed: QC Preparation | 1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 MDL Result | 150 n Spike Amount 150 | 162 Analy Prepa Units <u>ng/Kg</u> Percent <u>Recovery</u> 157 Analy Prepa Units | vzed By: ared By: Rec Li: 62.5 vzed By: | - 16 TG TG Si over; mits - 16 KE KE |
| Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 Parameter Benzene | QC Flag | 243 Batch: 37555 Flag Result 235 Batch: 37618 | mg/Kg Date Analyzed: QC Preparation M Re Units mg/Kg Date Analyzed: QC Preparation | 1 2007-05-26 2007-05-25 ADL esult 10.7 Dilution 1 2007-05-29 x 2007-05-29 MDL Result 0.00333 | n Spike Amount 150 | 162 Analy Prepa Units ng/Kg Percent Recovery 157 Analy Prepa Units mg/Kg | vzed By: ared By: Rec Li: 62.5 vzed By: | - 16 TG TG S 0 very mits - 16 KB KB KB KB |
| Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 Parameter | QC Flag | 243 Batch: 37555 Flag Result 235 Batch: 37618 | mg/Kg Date Analyzed: QC Preparation M Re Units mg/Kg Date Analyzed: QC Preparation | 1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 MDL Result | n Spike Amount 150 | 162 Analy Prepa Units <u>ng/Kg</u> Percent <u>Recovery</u> 157 Analy Prepa Units | vzed By: ared By: Rec Li: 62.5 vzed By: | - 16 TG TG Si over; mits - 16 KE KE |

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| Report Date: June 20, State M SWD | , 2007 | | rk Order: 7 State M SV | | | Page Nun | aber: 49 of 71 Buckeye.NM |
|---|---|--|---|---|--------------------------------------|---|--|
| Surrogate | Flag | Result | Units | Dilution | | Percent Recovery | Recovery Limits 73.2 - 113 |
| Trifluorotoluene (TFT) 4-Bromofluorobenzene | | 0.882 0.600 | mg/Kg mg/Kg | 1 · 1 | 1.00 1.00 | 88 60 | 73.2 - 113 54 - 102 |
| | (| | | | | | |
| Method Blank (1) | QC Batch: 37619 | | | | | | |
| QC Batch: 37619 Prep Batch: 32598 | | Date Anal QC Prepa | | 07-05-29 07-05-29 | | Analyz Prepar | |
| Parameter | Flag | | MDL Result | | Uni | | RL |
| GRO | | | < 0.459 | | mg/ | Kg | 1 |
| Surrogate | Flag | Result | Units | Dilution | | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) 4-Bromofluorobenzene | | 1.01 0.689 | mg/Kg mg/Kg | 1 | 1.00 1.00 | 101 69 | 73.2 - 125 51.9 - 110 |
| QC Batch: 37678 | QC Batch: 37678 | Date Anal QC Prepa | | | | Analyz Prepar | ed By: TG ed By: TG |
| QC Batch: 37678 Prep Batch: 32609 | | | ration: 20 MDL | | Uni | Prepar | |
| QC Batch: 37678 Prep Batch: 32609 Parameter | QC Batch: 37678 Flag | | ration: 20 | | Uni mg/ | Prepar | red By: TG |
| Prep Batch: 32609 Parameter DRO Surrogate F | Flag Flag Result | QC Prepa | ration: 20 MDL Result <10.7 Dilu | 007-05-29 | mg/ Spike Amount | Prepar its Kg Percent Recovery | red By: TG RL 50 Recovery Limits |
| QC Batch: 37678 Prep Batch: 32609 Parameter DRO | Flag | QC Prepa | ration: 20 MDL Result <10.7 Dilu |)07-05-29 | mg/ Spike | Prepar its Kg Percent | ed By: TG RL 50 Recovery Limits |
| QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F | Flag Flag Result | QC Prepa | ration: 20 MDL Result <10.7 Dilu | 007-05-29 | mg/ Spike Amount | Prepar its Kg Percent Recovery | ed By: TG RL 50 Recovery Limits |
| QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253 | Flag Flag Result 222 | QC Prepa | vzed: 20 | 007-05-29 | mg/ Spike Amount | Prepar its Kg Percent Recovery 148 Analyz | ed By: TG RL 50 Recovery Limits |
| QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253 Prep Batch: 33118 | Flag Flag Result 222 QC Batch: 38253 | QC Prepar Units mg/Kg Date Anal | vzed: 20 MDL Result 210.7 Dilu vzed: 20 ration: 20 | 007-05-29 ntion 1 007-06-16 | mg/ Spike Amount 150 | Prepar its Kg Percent Recovery 148 Analyz Prepar | red By: TG RL 50 Recovery Limits 62.5 - 164 zed By: ER red By: ER |
| QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253 | Flag Flag Result 222 | QC Prepar Units mg/Kg Date Anal | vzed: 20 vzed: 20 vzed: 20 vzed: 20 | 007-05-29 ntion 1 007-06-16 007-06-16 | mg/ Spike Amount | Prepar its Kg Percent Recovery 148 Analy Prepar its | red By: TG RL 50 Recovery Limits 62.5 - 164 zed By: ER |
| QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253 Prep Batch: 33118 Parameter | Flag Flag Result 222 QC Batch: 38253 | QC Prepar Units mg/Kg Date Anal | vzed: 20 MDL Result <10.7 Dilu vzed: 20 ration: 20 MDL Result | 007-05-29 ntion 1 007-06-16 007-06-16 | mg/ Spike Amount 150 Un: | Prepar its Kg Percent Recovery 148 Analy Prepar its | red By: TG RL 50 Recovery Limits 62.5 - 164 red By: ER red By: ER RL |

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| Report Date: June 20, State M SWD | , 2007 | Work Orde State N | | 6 | | Page | Number: 3 Buck | eye,NM |
|--|---|---|--|--|--|---|--|--|
| Parameter | Flag | M. Res | DL sult | | Units | s | | RL |
| Chloride | | <0. | 140 | | mg/K | g | | 1 |
| | | | | | | | | |
| Method Blank (1) | QC Batch: 38310 | | | | | | | |
| QC Batch: 38310 Prep Batch: 33169 | | Date Analyzed: QC Preparation: | 2007-06- 2007-06- | | | | alyzed By epared By | |
| v . | - | | DL | | | | | |
| Parameter | Flag | Res | | | Unit | | | RI |
| Chloride | | <0. | 140 | | mg/K | .g | | 1 |
| Method Blank (1) | QC Batch: 38312 | | | | | | | |
| QC Batch: 38312 Prep Batch: 33171 | | Date Analyzed: QC Preparation: | 2007-06- 2007-06- | | | | alyzed By epared By | |
| 110) Daton. 00111 | | QO I IEparadoll. | 2007-00- | -10 | | | շիացը ըն | . 1916 |
| ~ | | | DL | | | | | |
| | Flag | Res | sult | | Unit | 5 | | RI |
| | | <0. | 140 | | mg/K | 5 | | 1 |
| Parameter Chloride Method Blank (1) | QC Batch: 38352 | · · | | | mg/K | | anlugod Br | |
| Chloride | | <0. Date Analyzed: QC Preparation: | 2007-06- | | mg/K | Aı | nalyzed By epared By | : ER |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 | QC Batch: 38352 | Date Analyzed: QC Preparation: M | 2007-06- 2007-06- DL | | | Aı Pr | | : ER : ER |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter | | Date Analyzed: QC Preparation: M | 2007-06- 2007-06- DL sult | | Unit mg/K | Ai Pr s | | : ER : ER |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 | QC Batch: 38352 Flag | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: | 2007-06- 2007-06- DL sult 140 2007-05- | 25 | Unit | Ai Pr S S | alyzed By | ER ER RI 1 |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control | QC Batch: 38352 Flag Spike (LCS-1) | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: | 2007-06- 2007-06- DL sult 140 | -19 25 25 | Unit mg/K | Ai Pr S S An Pr | alyzed By | : ER : ER <u>RI</u> 1 : MT MT |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param | QC Batch: 38352 Flag Spike (LCS-1) LC Rest | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units | 2007-06- 2007-06- DL sult 140 2007-05- | 25 25 Spike Amount | Unit | Aı Pr S S An Pr | alyzed By epared By epared By | : ER : ER I I : MT MT Rec. Limit |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene | QC Batch: 38352 Flag Spike (LCS-1) LC Ress 1.0 | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units 1 mg/Kg | 2007-06- 2007-06- DL sult 140 2007-05- 2007-05- 2007-05- Dil. 1 | 25 25 25 Spike <u>Amount</u> 1.00 | Unit mg/k Matri Resul <0.003 | An Pr S S An Pr t 33 10 | alyzed By epared By epared By ec. 01 76 | : ER : ER I I : MT MT Rec. Limit 3 - 11 |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Toluene | QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units 1 mg/Kg 10 mg/Kg | 2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 | 25 25 25 Spike Amount 1.00 1.00 | Unit mg/k Matri Resul <0.003 <0.003 | A1 Pr 5 5 5 5 7 7 7 7 7 2 10 | alyzed By epared By epared By ec. 01 76 00 77 | : ER : ER I 1 : MT MT Rec. Limit 3 - 11 3 - 11 |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Ioluene Ethylbenzene | QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 0.96 | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units 1 mg/Kg 10 mg/Kg 68 mg/Kg | 2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 | 25 25 25 Spike <u>Amount</u> 1.00 1.00 1.00 | Unit mg/k Matri Resul <0.003 <0.003 <0.002 | A1 Pr 5g An Pr 5g X T X X X X 72 10 06 9 | epared By alyzed By epared By 200 77 7 75 | : ER : ER RI 1 : MT MT Rec. Limit 3 - 11 3 - 11 4 - 11 |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Toluene Ethylbenzene Xylene | QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 2.8 | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: QC Preparation: S alt Units 1 mg/Kg 60 mg/Kg 68 mg/Kg 68 mg/Kg | 2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 1 | 25 25 25 Amount 1.00 1.00 1.00 3.00 | Unit mg/k Matri Resul <0.003 <0.002 <0.002 <0.002 | An Pr s | epared By alyzed By epared By 200 77 7 75 | : ER : ER RI 1 : MT MT Rec. Limit 3 - 11 3 - 11 4 - 11 |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 | QC Batch: 38352 Flag Spike (LCS-1) LC Ress 1.0 1.0 0.99 2.8 sed on the spike result. | Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: QC Preparation: S alt Units 1 mg/Kg 60 mg/Kg 68 mg/Kg 68 mg/Kg | 2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 1 1 1 1 1 | 25 25 25 Amount 1.00 1.00 1.00 3.00 and spike du | Unit mg/k Matri Resul <0.003 <0.002 <0.002 <0.002 | An Pr s | epared By alyzed By epared By 200 77 7 75 | : ER : ER RI 1 : MT MT Rec. Limit .3 - 11 .3 - 11 .4 - 11 .2 - 11 |
| Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Toluene Ethylbenzene Xylene | QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 2.8 | Date Analyzed: QC Preparation: M Res <0. | 2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 1 | 25 25 25 Amount 1.00 1.00 1.00 3.00 | Unit mg/k Matri Resul <0.003 <0.002 <0.002 <0.002 | An Pr s | epared By alyzed By epared By 200 77 7 75 | : ER : ER RI I : MT MT Rec. Limit 3 - 11 4 - 11. |

| Report Date: June 20, 2007 State M SWD | | | |)rder: 70525 te M SWD | 26 | | | | ^o age Nu | | 51 of 7 eye,NM |
|---|---|---|--|---|---|---|---|---|--|--|---|
| control spikes continued | | | | | | | | | | | |
| | LCSD | | | Spike | | atrix | | | ec. | | RPD |
| Param | Result | Units | | Amount | | esult | Rec. | Lir | | RPD | Limi |
| Toluene | | mg/Kg | - | 1.00 | | 00372 | 100 | | - 114 | Û | 20 |
| Ethylbenzene | 0.968 | mg/K_l | | 1.00 | | 00206 | 97 | | - 115 | 0 | 20 |
| Xylene | 2.89 | mg/Kg | · · · · · · · · · | 3.00 | | 00259 | 96 | | - 112 | 0 | 20 |
| Percent recovery is based on the s | spike result. | RPD 1 | s based | on the spike | ands | pike du | plicate | result. | | | |
| | LCS | | LCSD | | | Spil | | LCS | LCSI | | Rec. |
| Surrogate | Resu | | lesult | Units | Dil. | Amo | | Rec. | Rec. | | Limit |
| Trifluorotoluene (TFT) | 0.93 | | 0.953 | mg/Kg | 1 | 1.0 | | 93 | 95 | | .5 - 11 |
| 4-Bromofluorobenzene (4-BFB) | 0.88 | 2 (| 0.903 | mg/Kg | 1 | 1.0 | 0 | 88 | 90 | 68 | .3 - 11 |
| Laboratory Control Spike (Le QC Batch: 37543 Prep Batch: 32545 | CS-1) | | Analyzec reparatic | | | | | | | vzed By ared By: | |
| | LC | S | | | S | pike | Ма | atrix | | | R.ec. |
| Param | Resi | | Units | Dil. | | nount | | sult | Rec. | | Limit |
| ĠR0 | 8.9 | 2 | mg/Kg | <u>, 1</u> | | 10.0 | <0 | .459 | 89 | 79 | .6 - 1 |
| Param GRO | Result 9.86 | Unit mg/h | ig 1 | 10.0 | < | esult 0.459 | Rec. 99 | Lir. 79.6 | | RPD 10 | Lim 20 |
| Percent recovery is based on the | spike result. | RPD i | s based | on the spike | and s | spike du | plicate | result. | | • | |
| | LCS | 3 I | LCSD | | | Spi | ke | LCS | LCSI |) | Rec. |
| Surrogate | Resu | lt F |) | Units | Dil. | Amo | | Rec. | Rec. | | Limit |
| Trifluorotoluene (TFT) | 0.96 | | Result | Omus | | | | | | | |
| | 0.50 | 6 1 | 0.947 | mg/Kg | 1 | 1.0 | | 97 | 95 | 77 | .1 - 11 |
| 4-Bromofluorobenzene (4-BFB) | 0.89 | | | | 1 | 1.0 1.0 | 0 | 97 89 | 95 89 | | |
| Laboratory Control Spike (Lo QC Batch: 37546 | 0.89 | 0 (Date | 0.947 | mg/Kg mg/Kg d: 2007-0- | 1 5-25 | | 0 | | 89 Analy | | .1 - 11 : M'. |
| Laboratory Control Spike (L QC Batch: 37546 Prep Batch: 32547 | 0.89 CS-1) LCS | 0 (Date . QC P: | 0.947 0.889 Analyzec reparatio | mg/Kg mg/Kg d: 2007-0. on: 2007-0. | 1 5-25 5-25 Sp | 1.0 ike | 00 00 Ma | 89 trix | 89 Analy Prepa | 78 vzed By ared By | .1 - 11 : M'. : M'. Rec. |
| Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param | 0.89 CS-1) LCS Resu | 0 (Date . QC P: S | 0.947 0.889 Analyzed reparatio Units | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. | 1 5-25 5-25 Sp Am | 1.0 ike ount | 00 00 Ma Re | 89 trix sult | 89 Analy Prepa Rec. | 78 vzed By ared By | .1 - 11 : M'. : M'. Rec. Limit |
| Prep Batch: 32547 Param Benzene | 0.89 CS-1) LCS Resu 1.01 | 0 (Date - QC Pr S It | 0.947 0.889 Analyzeo reparatio Units mg/Kg | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 | 1 5-25 5-25 Sp <u>Am</u> 1. | ike ount 00 | 00 00 Ma Re <0.0 | 89 trix sult 00333 | 89 Analy Prepa Rec. 101 | 78 vzed By ared By 76 | .1 - 11 : M' : M' : M' : Rec. Limit .3 - 11 |
| Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param | 0.89 CS-1) LCS Resu | 0 0 Date . QC Pr S It I 7 | 0.947 0.889 Analyzeo reparatio Units mg/Kg mg/Kg | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 | 1 5-25 5-25 Sp Am 1. | 1.0 ike ount 00 00 | 00 00 Ma Re <0.0 <0.0 | 89 trix sult 00333 00372 | 89 Analy Prepa Rec. 101 99 | 78 vzed By ared By 76 77 | .1 - 1: : M' : M' : M' : M' : : M' : : : M' : : : : : : : : : : : : : |
| Laboratory Control Spike (L QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene | 0.89 CS-1) LCS Resu 1.01 0.98 | 0 (Date . QC Pr S It 7 8 | 0.947 0.889 Analyzeo reparatio Units mg/Kg | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 | 1 5-25 5-25 Am 1. 1. | ike ount 00 | 00 00 Ma Re <0.0 <0.0 <0.0 | 89 trix sult 00333 | 89 Analy Prepa Rec. 101 | 78 vzed By ared By 76 77 73 | .1 - 1: : M' : M' Rec. Limit .3 - 1 .3 - 1 .4 - 1 |
| Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene | 0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.82 | 0 (Date . QC P: 5 llt 7 8 2 | 0.947 0.889 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 | 1 5-25 5-25 Am 1. 1. 3. | 1.0 ike ount 00 00 00 00 | Ma Re <0.0 <0.0 <0.0 <0.0 | 89 trix sult 00333 00372 00206 00259 | 89 Analy Prepa Rec. 101 99 95 | 78 vzed By ared By 76 77 73 | .1 - 1: : M' : M' Rec. Limit .3 - 1 .3 - 1 .4 - 1 |
| Laboratory Control Spike (L QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene | 0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.82 | 0 (Date . QC P: 5 llt 7 8 2 | 0.947 0.889 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 0 the spike | 1 5-25 5-25 Sp <u>Am</u> 1. 1. 1. 3. e and s | ike ount 00 00 00 00 00 00 | Ma Re <0.0 <0.0 <0.0 <0.0 | 89 trix sult 00333 00372 00206 00259 : result. | 89 Analy Prepa Rec. 101 99 95 94 | 78 vzed By ared By 76 77 73 | .1 - 11 : M ⁷ : M ⁷ |
| Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene | 0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.82 spike result. | 0 (Date . QC P: 5 llt 7 8 2 | 0.947 0.889 Analyzed reparatio mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 0 the spike | 1 5-25 5-25 Am 1. 1. 3. e and s | 1.0 ike ount 00 00 00 00 00 | Ma Re <0.0 <0.0 <0.0 <0.0 | 89 trix sult 00333 00372 00206 00259 : result. R | 89 Analy Prepa Rec. 101 99 95 | 78 vzed By ared By 76 77 73 | : MT Rec. |
| Laboratory Control Spike (Le QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s | 0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.83 spike result. LCSD | Date . QC P: G llt RPD i | 0.947 0.889 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg is based s Dil. | mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 0 the spike | 1 5-25 5-25 Sp Am 1. 1. 3. 2 and 1 M R | ike ount 00 00 00 00 spike du atrix: | 00 00 Ma Re <0.0 <0.0 <0.0 plicate | 89 trix sult 00333 00372 00206 00259 e result. R Lin | 89 Analy Prepa Rec. 101 99 95 94 ec. | 78 vzed By ared By 76 77 73 73 | .1 - 11 : M ⁷ : Rec. Limit : 3 - 11 : 3 - 11 : 4 - 11 : 2 - 11 : RP ¹ |

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|--|------------------------|--------------|-----------------------|---|------------|-------------------------|------------|---------------------|-------------------|------------------|---------------------|
| control spikes continued | 1.000 | | | 0.11 | | | | n | | | חתת |
| Param | LCSD Result | Units | Dil. | Spike Amount | | atrix sult | Rec. | Re Lin | | RPD | RPD Limit |
| Ethylbenzene | 0.953 | mg/K | | 1.00 | | 00206 | <u>95</u> | 75.4 | | $\frac{10}{0}$ | 20 |
| Xylene | 2.84 | mg/K | | 3.00 | | 00200 | 95 95 | 73.2 | | 1 | 20 |
| Percent recovery is based on the s | | | | | | | plicate | | | | |
| | LC | s I | LCSD | | | Spi | ke | LCS | LCSE |) | Rec. |
| Surrogate | Res | ult F | Result | Units | Dil. | Amo | unt | Rec. | Rec. | | Limit |
| Trifluorotoluene (TFT) | 0.84 | 13 | 0.917 | mg/Kg | 1 | 1.0 | 10 | 84 | 92 | 74 | .5 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.85 | 25 | 0.884 | mg/Kg | 1 | 1.0 | 0 | 82 | 88 | 68 | .3 - 110 |
| Laboratory Control Spike (LG QC Batch: 37547 Prep Batch: 32547 | CS-1) | | Analyzec reparatic | | | | | | • | zed By red By | |
| | L | | | | S | pike | | atrix | | | Rec. |
| Param | Res | | Units | Dil. | | ount | | esult | Rec. | | Limit |
| GRO | 8. | 66 | mg/Kg | 1 | 1 | 0.0 | (| 1.459 | 87 | 79 | .6 - 11 |
| Param GRO | LCSD Result 9.60 | Unit mg/H | | Spike Amoun 10.0 | it R | atrix esult).459 | Rec. 96 | Re Lin 79.6 - | nit | RPD 10 | RPI Limi 20 |
| Percent recovery is based on the s | · | | | | | | | | | | |
| | LC | S I | LCSD | | | - Spi | ke | LCS | LCSI |) | Rec. |
| Surrogate | Res | | Result | Units | Dil. | Amo | | Rec. | Rec. | | Limit |
| Trifluorotoluene (TFT) | 0.9 | 00 | 0.984 | mg/Kg | 1 | 1.(|)0 | 90 | 98 | 77 | .1 - 11 |
| 4-Bromofluorobenzene (4-BFB) | 0.8 | 33 | 0.904 | mg/Kg | 1 | 1.0 | 00 | 83 | 90 | 78 | .1 - 11 |
| Laboratory Control Spike (Lo QC Batch: 37548 Prep Batch: 32548 | CS-1) | | Analyzeo reparatio | | | | | | • | • | n MT MT |
| _ | | | | | Spi | | | trix | | | Rec. |
| Param | Res | | Units | Dil | Amo | | | sult | Rec. | | Limit |
| Benzene Toluene | 0.9 | | mg/Kg | 1 | 1.(| | | 0333 | - <u>98</u> 05 | | 5.3 - 11 |
| Ethylbenzene | 0.9 0.9 | | mg/Kg mg/Kg | 1 1 | 1.(1.(| | | 00372 00206 | 95 90 | | .3 - 11 .4 - 11 |
| Xylene | 2.7 | | mg/Kg | 1 | 3.(| | | 0259 | 90 90 | | .2 - 11: |
| Percent recovery is based on the | | | | | | | | | | | |
| | LCSD | | | Spike | M | atrix | | R | ec. | | RPI |
| Param | Result | Units | | Amount | R | esult | Rec. | Li | mit | RPD | Limi |
| Benzene | 0.942 | mg/K | | 1.00 | | 00333 | 94 | | - 117 | 4 | 20 |
| | 0.017 | / | | | - 0 | 000000 | 00 | . 77 2 | - 114 | • | 20 |
| Toluene Ethylbenzene | $0.917 \\ 0.875$ | mg/K mg/K | | $\begin{array}{c} 1.00 \\ 1.00 \end{array}$ | | 00372 00206 | 92 88 | | - 114 - 115 | ვ ვ | 20 20 |

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| Report Date: June 20, 2007 State M SWD | | ١ | | rder: 70525 æ M SWD | 26 | | | | Page Nu | | 53 of 71 eye.NN |
|---|--|--|---|--|--|---|--|---|---|--|---|
| | | | | | | | | | | <u></u> | |
| control spikes continued | T COD | | | 0.3 | 24 | | | Ŧ |) | | നനന |
| Param | LCSD Result | Units | Dil. | Spike | Mat Res | | Rec. | | Rec. imit | RPD | RPD Limi |
| Xylene | 2.62 | mg/Kg | | Amount 3.00 | <0.0 | | <u>87</u> | | 2 - 112 | $\frac{111D}{3}$ | 20 |
| Percent recovery is based on th | | | | | | | | | | | |
| | LC | | CSD | | | Spi | | LCS | LCSE | | Rec. |
| Surrogate | Res | | esult. | Units | Dil. | Amo | | Rec. | Rec. | | Limit |
| Trifluorotoluene (TFT) | 0.84 | | .858 | mg/Kg | 1 | 1.0 | | 84 | 80 | | .5 - 11 |
| 4-Bromofluorobenzene (4-BFB | | | .821 | mg/Kg | 1 | 1.0 | | 82 | 82 | | .3 - 11 |
| Laboratory Control Spike | (LCS-1) | | | | | | | | | | |
| QC Batch: 37549 | | Date A | nalyzed | l: 2007-0 | 5-25 | | | | Analy | zed By | : MT |
| Prep Batch: 32548 | | QC Pre | eparatio | on: 2007-0 | 5-25 | | | | Prepa | red By | : MT |
| | L | rs | | | Sp | ike | Ms | ıtrix | | | Rec. |
| Param | Res | | Units | Dil. | Ame | | | sult | Rec. | | Limit |
| GRO | 8. | | mg/Kg | | | 1.() | | .459 | 90 | | .6 - 11 |
| Percent recovery is based on t | he spike result | | | | e and sp | ike du | plicate | result | | | |
| | LCSD | | | Spike | Ma | trix | | F | lec. | | RPI |
| Param | Result | Units | Dil | • | | sult | Rec. | L | imit | RPD | Limi |
| GRO | 9.39 | mg/Kg | g 1 | 10.0 | <0 | 459 | 94 | 79.6 | 3 - 113 | 5 | 20 |
| | | | | | | | | | | | |
| | | | | | | ike du | | result | ;. | | |
| Percent recovery is based on t | he spike result | . RPD is | based | | | | plicate | | |) | Ber |
| Percent recovery is based on t | he spike result LC | . RPD is | based (CSD | on the spike | e and sp | Spi | plicate ke | LCS | LCSI | | Rec. Linit |
| Percent recovery is based on t Surrogate | he spike result LC Res | . RPD is S Lo ult Ro | based o CSD esult | on the spike Units | e and sp Dil. | Spi Amo | plicate ke vunt | LCS Rec. | LCSI Rec. | | Limit |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) | he spike result LC Res 0.9 | . RPD is S Lo ult Ro 37 0 | based (CSD | on the spike | e and sp | Spi | plicate ke ount | LCS | LCSI | 77 | Limit .1 - 11 |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 | he spike result LC Res 0.9) 0.8 | RPD is Luit Ru 37 0 93 0 Date A | based CSD esult .957 | on the spike Units mg/Kg mg/Kg d: 2007-0 | 2 and sp Dil. 1 1 3-26 | Spi Amo 1.(| plicate ke ount | LCS Rec. 94 | LCSI Rec. 96 90 Anal | 77 | Limit .1 - 11 .1 - 11 |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 | he spike result LC Res 0.9 () 0.8 (LCS-1) | RPD is S Lo ult Ra 37 0 93 0 Date A QC Pr | based o CSD esult .957 .902 malyzed eparatic | Units mg/Kg mg/Kg d: 2007-0 | e and sp Dil. 1 1 5-26 5-25 Sp | Spi Amo 1.(1.(| plicate ke unt 00 00 Ma | LCS Rec. 94 89 | LCSI Rec. 90 90 Analy Prepa | 77 78 vzed By ared By | Limit .1 - 11 .1 - 11. .: TG :: TG Rec. |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param | he spike result LC Res 0.9 (LCS-1) LC Res | RPD is S Lo ult Ra 37 0 93 0 Date A QC Pr CS sult | based of CSD esult .957 .902 analyzed eparatic Units | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. | e and sp Dil. 1 1 5-26 5-25 Sp Am | Spi Amo 1.(1.(ike | plicate ke unt 00 00 Ma Re | LCS Rec. 94 89 | LCSI Rec. 96 90 Anal Prepa Rec. | 77 78 vzed By ared By | Limit .1 - 11 .1 - 11 TG :: TG Rec. Limit |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO | he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Res 2 | . RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20 | based of CSD esult .957 .902 | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. | e and sp Dil. 1 5-26 5-25 Sp Am 2 | Spi Amo 1.(1.(ike ount 50 | plicate ke junt j0 j0 j0 ma Re Ke | LCS Rec. 94 89 sult | LCSI Rec. 96 90 Analy Prepa Rec. 88 | 77 78 vzed By ared By | Limit .1 - 11 .1 - 11 TG : TG Rec. Limit |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO | he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Res 2 | . RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20 | based of CSD esult .957 .902 | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. | e and sp Dil. 1 5-26 5-25 Sp Am 2 | Spi Amo 1.(1.(ike ount 50 | plicate ke junt j0 j0 j0 ma Re Ke | LCS Rec. 94 89 sult | LCSI Rec. 96 90 Analy Prepa Rec. 88 | 77 78 vzed By ared By | Limit .1 - 11 .1 - 11 TG : TG Rec. Limit |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO | he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Res 2 | . RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20 | based of CSD esult .957 .902 | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. | e and sp Dil. 1 1 5-26 5-25 Sp Am 2 e and sp | Spi Amo 1.(1.(ike ount 50 | plicate ke junt j0 j0 j0 ma Re Ke | LCS Rec. 94 89 | LCSI Rec. 96 90 Analy Prepa Rec. 88 | 77 78 vzed By ared By | Limit .1 - 11 .1 - 11 .1 - 11 TG :: TG Rec. Limit 1 - 12 |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on t | he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Re 2 he spike result | . RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20 | E based of CSD esult .957 .902 eparatic Units mg/Kg based of | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike | e and sp Dil. 1 1 5-26 5-25 Sp Am 2 e and sp Ma | Spi Amo 1.(1.0 ike ount 50 ike du | plicate ke junt j0 j0 j0 ma Re Ke | LCS Rec. 94 89 atrix esult 10.7 result | LCSI Rec. 96 90 Analy Prepa Rec. 88 | 77 78 vzed By ared By | Limit .1 - 11 .1 - 11. .: TG :: TG Rec. |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on t Param | he spike result LC Res 0.9 0) 0.8 (LCS-1) LCSD | . RPD is S Lo ult Ro 37 0 93 0 Date A QC Pr CS sult 20 . RPD is | based of CSD esult .957 .902 analyzed eparatic Units mg/Kg based of Dil | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike | e and sp Dil. 1 3-26 5-25 Sp Am 2 e and sp ma t Re | Spi Amo 1.(1.(1.0 ike ount 50 ike du trix | plicate ke unt 00 00 Ma Re C plicate | LCS Rec. 94 89 esult 10.7 e result | LCSI Rec. 96 90 Analy Prepa Rec. 88 | 77 78 vzed By ared By 64 | Limit .1 - 11 .1 - 11 .1 - 11 .1 - 11 Rec. Limit RPI Limi |
| Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on t Param DRO | he spike result LC Res 0.9 (LCS-1) (LCS-1) LCSD Result LCSD Result 218 | RPD is S Lu ult Ru 37 0 93 0 Date A QC Pr CS sult 20 . RPD is <u>Units</u> <u>mg/K</u> | based of CSD esult .957 .902 .902 | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike Amour 250 | e and sp Dil. 1 1 3-26 5-25 Sp Am 2 e and sp ma t Re <1 | Spi Amo 1.(1.(1.(50 ike du .trix sult .0.7 | plicate ke unt 00 00 Ma Rec plicate Rec. 87 | LCS Rec. 94 89 esult 10.7 e result L 64. | LCSI Rec. 96 90 90 Analy Prepa Rec. 88 t. Rec. imit I - 124 | 77 78 vzed By ared By 64 RPD | Limit .1 - 11 .1 - 11 .1 - 11 .1 - 11 Rec. Limit RPI Limi |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on the Param DRO Percent recovery is based on the Param | he spike result LC Res 0.9 0.9 (LCS-1) (LCS-1) LCSD Result LCSD Result 218 he spike result | RPD is RPD is Lu ult Ru 37 0 93 0 Date A QC Pro- CS Sult 20 . RPD is mg/K, . RPD is | based of CSD esult .957 .902 .902 | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike Amour 250 | e and sp Dil. 1 1 $\overline{)}$ | Spi Amo 1.0 1.0 ike ount 50 ike du trix sult 0.7 ike du | plicate ke unt. 00 00 Ma Rec. 87 plicate | LCS Rec. 94 89 atrix esult 10.7 e result H L 64.3 | LCSI Rec. 96 90 Analy Prepa Rec. 88 C. Rec. imit 1 - 124 | 77 78 vzed By ared By 64 RPD | Limit .1 - 11 .1 - 11 TG :: TG Rec. Limit 12 RPI Limi 20 |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on the Param DRO Percent recovery is based on the Location of the species of the specie | he spike result LC Res 0.9 (LCS-1) (LCS-1) LCSD Result LCSD Result 218 | RPD is RPD is Lult Ru 37 0 93 0 Date A QC Pr CS Sult 20 . RPD is <u>mg/K</u> . RPD is D | based of CSD esult .957 .902 .902 | Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike Amour 250 | e and sp Dil. 1 1 3-26 5-25 Sp Am 2 e and sp ma t Re <1 | Spi Amo 1.(1.(1.(i.ke ount 50 i.ke du t.trix sult .0.7 i.ke du i.ke | plicate ke unt 00 00 Ma Rec plicate Rec. 87 | LCS Rec. 94 89 esult 10.7 e result 10.7 e result 64. c result | LCSI Rec. 96 90 90 Analy Prepa Rec. 88 t. Rec. imit I - 124 | 77 78 vzed By ared By 64 RPD 1 | Limit .1 - 11 .1 - 11 .1 - 11 .1 - 11 Rec. Limit RPI Limi |

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|---|------------------------------------|--|--|--|--|---|--|--|--|---|
| Laboratory Control Sp | ike (LCS | 5-1) | | | | | | | | |
| QC Batch: 37554 Prep Batch: 32551 | | | Date Ana QC Prep | | 2007-05-1 2007-05-1 | | | | yzed B ared B | |
| | | LCS | | | | Spike | Matri | i | | Rec. |
| Param | • | Resul | | Jnits | Dil. | Amount | Resu | | | Limit |
| DRO | , | 229 | | g/Kg | 1 | 250 | <10. | | 64 | 4.1 - 124 |
| Percent recovery is based | on the spi | ke result. 1 | RPD is b | ased on t | he spike a | nd spike dı | iplicate re | sult. | | |
| v | | | | | | | 1 | | | |
| Param | | $\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$ | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| DRO | | 219 | mg/Kg | 1 | 250 | <10.7 | | 64.1 - 124 | 4 | 20 |
| Percent recovery is based | on the spi | | | | | | | | | |
| - or contraction of a pased | | | טפו עב דיי | abed OIL | nie shive s | ara shire ar | ipicate ie | | | |
| 0 | LCS | LCSD | | | | Spike | LCS | LCSD | | Rec. |
| Surrogate | Result | Result | | nits | Dil. | Amount | Rec. | Rec. | | Limit |
| n-Triacontane | 233 | 231 | mg | /Kg | | 150 | 155 | 154 | 6: | 2.5 - 164 |
| • | | | Date Ana QC Prep | | 2007-05-: 2007-05-: | | | | vzed B ared B | |
| Prep Batch: 32551 | | LCS | QC Prep | aration: | 2007-05-: | 25 Spike | Matr | Prep | | y: TG Rec. |
| Prep Batch: 32551 Param | | LCS Resu | QC Prep | aration: Jnits | 2007-05-1 Dil. | 25 Spike Amount | Resu | Prep ix ltRec. | ared B | y: TG Rec. Limit |
| Prep Batch: 32551 Param DRO | on the spi | LCS Resu 222 | QC Prep i lt. U m | aration: Jnits g/Kg | 2007-05-1 Dil. 1 | 25 Spike <u>Amount</u> 250 | Resu <10. | Prep ix lt Rec. 7 89 | ared B | y: TG Rec. Limit |
| Prep Batch: 32551 Param DRO | on the spi | LCS Resu 222 ike result. 1 | QC Prep i lt. U m | aration: Jnits g/Kg | 2007-05-1 Dil. 1 | 25 Spike <u>Amount</u> 250 | Resu <10. | Prep ix lt Rec. 7 89 | ared B | y: TG Rec. Limit |
| Prep Batch: 32551 Param DRO Percent recovery is based | on the spi | LCS Resu 222 ike result. 1 LCSD | QC Prep it U RPD is b | aration: Jnits g/Kg ased on t | Dil. 1 the spike a Spike | 25 Spike <u>Amount</u> 250 Ind spike du Matrix | Resu <10. uplicate re | Prep ix <u>It Rec.</u> 7 89 esult. Rec. | ared B; | y: TG Rec. <u>Limit</u> 4.1 - 124 RPD |
| Prep Batch: 32551 Param DRO Percent recovery is based Param | on the spi | LCS Resu 222 ike result. 1 LCSD Result | QC Prep t Umits | aration: Jnits g/Kg ased on t Dil. | Dil. 1 the spike a Spike Amount | 25 Spike Amount 250 Ind spike du Matrix Result | Resu <10. iplicate re Rec. | Prep ix <u>lt Rec.</u> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | ared B | y: TG Rec. Limit 4.1 - 124 RPD Limi |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO | | LCS Resu 222 ike result. 1 LCSD Result 217 | QC Prep lt U RPD is b Units mg/Kg | aration: Jnits g/Kg ased on t Dil. | Dil. 1 the spike a Spike Amount 250 | Spike Amount 250 Ind spike du Matrix Result <10.7 | Resu <10. aplicate re Rec. 87 | Prep ix 1t Rec. 7 89 ssult. Rec. Limit 64.1 - 124 | ared B; | y: TG Rec. <u>Limit</u> 4.1 - 124 RPD |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO | | LCS Resu 222 ike result. 1 LCSD Result 217 | QC Prep lt U RPD is b Units mg/Kg | aration: Jnits g/Kg ased on t Dil. | Dil. 1 the spike a Spike Amount 250 | Spike Amount 250 Ind spike du Matrix Result <10.7 | Resu <10. aplicate re Rec. 87 | Prep ix 1t Rec. 7 89 ssult. Rec. Limit 64.1 - 124 | ared B | y: TG Rec. Limit 4.1 - 124 RPD Limi |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO | on the spi LCS | LCS Resu 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD | QC Prep lt Umits MRPD is b Units Mg/Kg RPD is b | aration: Jnits g/Kg ased on t Dil. 1 ased on t | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a | Spike Amount 250 Ind spike du Matrix Result <10.7 | Resu <10. aplicate re Rec. 87 | Prep ix 1t Rec. 7 89 ssult. Rec. Limit 64.1 - 124 | ared B | y: TG Rec. Limit 4.1 - 12 ² RPD Limit |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate | on the spi LCS Result | LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result | QC Prep it U m RPD is b Units mg/Kg RPD is b Un | aration: Jnits g/Kg ased on t Dil. 1 ased on t nits | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount | Resu <10. aplicate re Rec. 87 aplicate re LCS Rec. | Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD Rec. | ared B | y: TG Rec. Limit 4.1 - 124 RPD Limit 20 Rec. Limit |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate | on the spi LCS | LCS Resu 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD | QC Prep it U m RPD is b Units mg/Kg RPD is b Un | aration: Jnits g/Kg ased on t Dil. 1 ased on t | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a | 25 Spike Amount 250 Ind spike du Matrix Result <10.7 Ind spike du Spike | Resu <10. aplicate re Rec. 87 aplicate re LCS | Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD | ared B | y: TG Rec. Limit 4.1 - 12 RPE Limi 20 Rec. Limit |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based of | on the spi LCS Result 240 | LCS Resu 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 | QC Prep it U m RPD is b Units mg/Kg RPD is b Un | aration: Jnits g/Kg ased on t Dil. 1 ased on t nits | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount | Resu <10. aplicate re Rec. 87 aplicate re LCS Rec. | Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD Rec. | ared B | y: TG Rec. Limit 4.1 - 12 RPE Limi 20 Rec. Limit |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane | on the spi LCS Result 240 | LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 5-1) | QC Prep it U m RPD is b Units mg/Kg RPD is b Un | aration: Jnits g/Kg ased on t Dil. 1 ased on t nits /Kg alyzed: | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. | 25 Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 | Resu <10. aplicate re Rec. 87 aplicate re LCS Rec. | Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal | ared B | y: TG Rec. Limit 4.1 - 124 RPD Limit 20 Rec. Limit 2.5 - 16 y: KB |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Laboratory Control Sp QC Batch: 37618 Prep Batch: 32598 | on the spi LCS Result 240 | LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) | QC Prep lt U mRPD is b Units mg/Kg RPD is b Un mg Date Ana QC Prep | aration: <u>Jnits</u> <u>g/Kg</u> ased on the set of the set o | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- | 25 Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 | Resu <10. aplicate re Rec. 87 aplicate re LCS Rec. 160 Matri | Prep ix lt Rec. 7 89 esult. Rec. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal Prep | Ared B 6 RPD 2 6 | y: TG Rec. Limit <u>4.1 - 124</u> RPD Limit <u>20</u> Rec. Limit <u>2.5 - 164</u> y: KB y: KB Rec. |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate a-Triacontane Laboratory Control Sp QC Batch: 37618 Prep Batch: 32598 Param | on the spi LCS Result 240 | LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) LCS Resul | QC Prep t Units MRPD is b Units MRPD is b Units MRPD is b Un MRPD is b Un MRPD is b Un MRPD is b Units Units MRPD is b Units | aration: <u>Jnits</u> <u>g/Kg</u> ased on a <u>Dil.</u> 1 ased on a <u>nits</u> <u>/Kg</u> alyzed: aration: nits | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- | 25 Spike Amount 250 Ind spike du Matrix Result <10.7 Ind spike du Spike Amount 150 29 29 29 29 29 | Resu <pre> Rec. Rec. 87 plicate re LCS Rec. 160 Matri Resul</pre> | Prep ix <u>lt Rec.</u> 7 89 esult. <u>Rec.</u> <u>Limit</u> 64.1 - 124 esult. <u>LCSD</u> <u>Rec.</u> 156 Anal Prep | ared B 6 RPD 2 6 vzed B ared B | y: TG Rec. Limit <u>4.1 - 12</u> RPD Limit <u>20</u> Rec. Limit <u>20</u> Rec. Limit <u>20</u> Rec. Limit <u>20</u> Rec. Limit |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Laboratory Control Sp QC Batch: 37618 | on the spi LCS Result 240 | LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) LCS Resul 0.925 | QC Prep lt U m RPD is b Units mg/Kg RPD is b Un mg QC Prep t mg | aration: Jnits g/Kg ased on the Dil. 1 ased on the hits /Kg aration: nits g/Kg | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- 2007-05- | 25 Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29 | Resu <pre> Rec. Rec. 87 Iplicate re LCS Rec. 160 Matri Resul <0.003 </pre> | Prep ix lt Rec. 7 89 sult. Rec. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal Prep x tt Rec. | ared B 6. RPD 2 6. vzed B ared B | y: TG Rec. Limit <u>4.1 - 12</u> RPD Limit <u>20</u> Rec. Limit <u>2.5 - 16</u> y: KB y: KB y: KB Rec. Limit <u>5.3 - 11</u> |
| Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Laboratory Control Sp QC Batch: 37618 Prep Batch: 32598 Param Benzene | on the spi LCS Result 240 | LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) LCS Resul | QC Prep It U m RPD is b Units mg/Kg RPD is b Un mg RPD is b Un mg CPrep t mg mg t mg t mg mg | aration: <u>Jnits</u> <u>g/Kg</u> ased on a <u>Dil.</u> 1 ased on a <u>nits</u> <u>/Kg</u> alyzed: aration: nits | 2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- | 25 Spike Amount 250 Ind spike du Matrix Result <10.7 Ind spike du Spike Amount 150 29 29 29 29 29 | Resu <pre> Rec. Rec. 87 plicate re LCS Rec. 160 Matri Resul</pre> | Prep ix lt Rec. 7 89 sult. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal Prep x tt Rec. 33 92 90 | ared B 6. RPD 2 6. vzed B ared B 76 77 77 77 | y: TG Rec. Limit <u>4.1 - 124</u> RPD Limit <u>20</u> Rec. Limit <u>2.5 - 164</u> y: KB y: KB Rec. |

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Report Date: June 20, 2007 State M SWD | | | |)rder: 70525 te M SWD | 26 | | | | Page Nu | | 5 of 71 eye.NM |
|---|------------------------|-------------------|----------------------|--------------------------|-------|---------------------------|------------|---------------|---------------------|---------------------|-----------------------|
| Param | LCSD Result | Unita | s Dil. | Spike Amount | | atrix esult | Rec. | - | ec. nit | RPD | RPD Limit |
| Benzene | 0.972 | mg/K | g 1 | 1.00 | <0. | .00333 | 97 | 76.3 | - 117 | 5 | 20 |
| Toluene | 0.950 | mg/K | | 1.00 | | .00372 | 95 | 77.3 | - 114 | 5 | 20 |
| Ethylbenzene | 0.907 | mg/K | | 1.00 | <0 | .00206 | 91 | 75.4 | - 115 | 5 | 20 |
| Xylene | 2.70 | mg/K | lg 1 | 3.00 | <0 | .00259 | 9 0 | 73.2 | - 112 | 5 | 2() |
| Percent recovery is based on the s | spike result. | RPD | is based | on the spike | and s | spike du | plicate | e result. | | | |
| Surrogate | LC Res | | LCSD Result | Units | Dil. | Spi Amo | | LCS Rec. | LCSE Rec. | | Rec. Jimit |
| Trifluorotoluene (TFT) | 0.83 | | 0.927 | mg/Kg | 1 | 1.0 | | 86 | 93 | | 5 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.76 | | 0.822 | mg/Kg | 1 | 1.(| | 76 | 82 | | 3 - 110 |
| QC Batch: 37619 Prep Batch: 32598 | | QC F | Analyze Preparati | | 5-29 | | | | | yzed By ared By: | KB |
| - | L | | | | | pike | | atrix | - | | Rec. |
| Param | Res | | Units | Dil. | | nount | | esult | Rec. | | imit |
| GRO Percent recovery is based on the s | 9. | | mg/Kg | | | 10.0 | | 0.459 | 92 | (9. | 6 - 11 |
| Param GRO | LCSD Result 9.12 | Uni mg/ | | | t F | latrix lesult 0.459 | Rec. 91 | Lii | ec. nit - 113 | RPD 0 | RPI Limi 20 |
| Percent recovery is based on the | spike result | . RPD | is based | on the spike | and a | spike dı | plicate | e result. | | | |
| | LC | S | LCSD | | | Sp | ike | LCS | LCSI |) | Rec. |
| Surrogate | Res | ult | Result | Units | Dil. | Amo | ount | Rec. | Rec. | I | <i>i</i> mit |
| Trifluorotoluene (TFT) | 0.9 | 85 | 0.940 | mg/Kg | 1 | 1. | 00 | 98 | 94 | 77. | 1 - 11' |
| 4-Bromofluorobenzene (4-BFB) | 0.8 | 70 | 0.819 | mg/Kg | 1 | 1. | 00 | 87 | 82 | 78. | 1 - 118 |
| Laboratory Control Spike (L QC Batch: 37678 Prep Batch: 32609 | CS-1) | | Analyze Preparati | | | | | | | vzed By ared By | |
| Davar | | CS | Tinita | Dil | | Spike | | atrix | Dec | | Rec. |
| Param DRO | | <u>sult</u> 57 | Units mg/K | | A | mount 250 | | esult 10.7 | <u>Rec.</u> 103 | | <u>imit</u> 1 - 12 |
| Percent recovery is based on the : | | | | | and | | | | | | 1 - 12 |
| | LCSD | | | Spike | | fatrix | | | ec. | | RPL |
| Param | Result | Uni | ts Di | | | lesult | Rec. | | nit | RPD | Limi |
| DRO | 224 | mg/ | | · | | <10.7 | 90 | | - 124 | 14 | 20 |
| | - | 0/ | | | | | | | | | |
| Percent recovery is based on the | spike result. | . RPD | is based | on the spike | and | spike di | plicat | e result | | | |

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| Report Date: June 20, State M SWD | 2007 | | Work Orde State N | | | | Page | Number Bu | ckeye,NM |
|--|-------------------------------|---|---|--|---|---|--|---|---|
| control spikes continued | d | | | | | | | | |
| | LCS | LCSD | | | Spike | LCS | LCS | D | Rec. |
| Surrogate | Result | Result | Units | Dil. | Amount | Rec. | Rec | | Limit |
| | LCS | LCSD | | | Spike | LCS | LCS | D | Rec. |
| Surrogate | Result | Result | Units | Dil. | Amount | Rec. | Rec | | Limit |
| -Triacontane | 211 | 201 | mg/Kg | 1 | 150 | 141 | 134 | (| 52.5 - 164 |
| Laboratory Control | Spike (LCS | -1) | | | | | | | |
| QC Batch: 38253 | | г |)ate Analyzed: | 2007-06-1 | 6 | | ٨ | nalyzed I | By: ER |
| Prep Batch: 33118 | | | QC Preparation: | 2007-06-1 | | | | epared E | |
| | | 4 | (C 1 Teparadon. | 2007-00-1 | 10 | | د | | J. Dit |
| | | LCS | | | Spike | Matr | rix | | Rec. |
| Param | | Result | | Dil. | Amount | Resu | iltl | Rec. | Limit |
| Chloride | | 12.3 | mg/Kg | 1 | 12.5 | < 0.1 | 40 | 98 | 90 - 110 |
| Percent recovery is bas | ed on the spil | æ result. R | PD is based on a | the spike a | nd spike duj | olicate res | sult. | | |
| | | LCSD | | Spike | Matrix | | Rec. | | RPD |
| Param | | Result | Units Dil. | Amount | Result | Rec. | Limit | RPD | Limi |
| | | | | | | | | | |
| Chloride Percent recovery is bas Laboratory Control | | ke result. R -1) | | - | | 101 olicate res | | | 20 |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 | | ke result. R -1) | | the spike a | nd spike duj 17 | | sult. A | 2 nalyzed I repared F | By: ER |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 | | ke result. R -1) | PD is based on · Date Analyzed: | the spike a | nd spike duj 17 | | sult. A P | nalyzed 1 | By: ER |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 | | ce result. R -1) C | PD is based on • Date Analyzed: QC Preparation: | the spike a | nd spike duj 17 16 | olicate res | sult. A P: rix | nalyzed 1 | By: ER By: ER |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param | | te result. R -1) C LCS | PD is based on • Date Analyzed: QC Preparation: | the spike a 2007-06-1 2007-06-1 | nd spike duj 17 16 Spike | olicate res Matu | sult. A P rix 1lt | nalyzed I repared I | By: ER By: ER Rec. Limit |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride | Spike (LCS | e result. R -1) LCS Result 12.2 | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg | the spike a 2007-06-1 2007-06-1 Dil. 1 | nd spike duy 17 16 Spike Amount 12.5 | Matr Resu <0.1 | sult. A Pr tix 11t 40 | nalyzed I repared H Rec. | By: ER By: ER Rec. Limit |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride | Spike (LCS | e result. R -1) LCS Result 12.2 | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg | the spike a 2007-06-1 2007-06-1 Dil. 1 | nd spike duy 17 16 Spike Amount 12.5 | Matr Resu <0.1 | sult. A Pr tix 11t 40 | nalyzed I repared H Rec. | By: ER By: ER Rec. Limit 90 - 110 |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param | Spike (LCS | te result. R -1) LCS Result 12.2 te result. R LCSD Result | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a | nd spike duy 17 16 Amount 12.5 nd spike duy | Matr Resu <0.1 | sult. A Pr tix tilt 40 sult. | nalyzed I repared H Rec. | By: ER By: ER Rec. Limit 90 - 110 RPD Limit |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param | Spike (LCS | te result. R -1) LCS Result 12.2 te result. R LCSD Result | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike | nd spike duy 17 16 Amount 12.5 nd spike duy Matrix | Matr Resu <0.1 Dicate res | sult. A Pr ilt 40 sult. Rec. | nalyzed J repared H Rec. 98 RPD | By: ER By: ER Rec. Limit 90 - 110 RPD |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride | Spike (LCS | te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 | PD is based on Date Analyzed: C Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 | nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 | Matr Resu <0.1 Dicate res Rec. 101 | A P tix 1lt 40 sult. Rec. Limit 90 - 110 | nalyzed J repared H Rec. 98 RPD | By: ER By: ER Rec. Limit 90 - 110 RPI Limi |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas | Spike (LCS red on the spil | te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R | PD is based on Date Analyzed: C Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 | nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 | Matr Resu <0.1 Dicate res Rec. 101 | A P tix 1lt 40 sult. Rec. Limit 90 - 110 | nalyzed J repared H Rec. 98 RPD | By: ER By: ER Rec. Limit 90 - 110 RPI Limi |
| Chloride Percent recovery is bas Caboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Caboratory Control | Spike (LCS red on the spil | te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1) | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 PD is based on | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 the spike a | nd spike duy 17 16 Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy | Matr Resu <0.1 Dicate res Rec. 101 | A Prix 11t 40 Sult. Rec. Limit 90 - 110 Sult. | nalyzed I repared H Rec. 98 RPD 3 | By: ER By: ER Limit 90 - 110 RPD Limit 20 |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Laboratory Control QC Batch: 38310 | Spike (LCS red on the spil | te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1) | PD is based on Date Analyzed: C Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 | nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 18 | Matr Resu <0.1 Dicate res Rec. 101 | A P rix llt 40 sult. Rec. Limit 90 - 110 sult. | nalyzed J repared H Rec. 98 RPD | By: ER By: ER Rec. Limit 90 - 110 RPI Limi 20 By: ER |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Laboratory Control QC Batch: 38310 | Spike (LCS red on the spil | te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1) I C | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 PD is based on Date Analyzed: | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 the spike a 2007-06-1 | nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 18 18 | Matr Resu <0.1 Dicate res Rec. 101 Dicate res | A Prix Ilt 40 Sult. Rec. Limit 90 - 110 Sult. A P | nalyzed I repared H Rec. 98 RPD 3 nalyzed I | By: ER By: ER Rec. Limit 90 - 110 RPD Limit 20 By: ER By: ER |
| Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Laboratory Control QC Batch: 38310 | Spike (LCS red on the spil | te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1) | PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 PD is based on PD is based on Date Analyzed: QC Preparation: | the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 the spike a 2007-06-1 | nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 18 | Matr Resu <0.1 Dicate res Rec. 101 | A P rix 1lt 40 sult. Rec. Limit 90 - 110 sult. A P rix | nalyzed I repared H Rec. 98 RPD 3 nalyzed I | By: ER By: ER R.ec. Limit 90 - 110 RPD Limit 20 By: ER |

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|---|--|--|--|---|--|--|--|---|--|--|
| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | t | RPD | RPD Limit |
| Chloride | 23.7 | mg/Kg | 1 | 12.5 | < 0.140 | 95 | 90 - 1 | 10 | 59 | 20 |
| Percent recovery is based on th | e spike result. I | RPD is b | ased on t | the spike an | id spike duj | plicate re | sult. | | | |
| Laboratory Control Spike (| (LCS-1) | | | | | | | | | |
| QC Batch: 38312 | | Date An | | 2007-06-1 | 9 | | | | yzed B | |
| Prep Batch: 33171 | | QC Prep | aration: | 2007-06-1 | 8 | | | Prepa | ared By | y: ER |
| | LCS | n | | | Cutles | Mat | | | | Dau |
| Param | Resu | | Units | Dil. | Spike Amount | Mat Res | | Rec | | Rec. Limit |
| Chloride | | | ng/Kg | <u>1</u> | 25.0 | <0.2 | | | | <u>90 - 11</u> |
| | | | | | | | | 30 | | 30-110 |
| Percent recovery is based on th | | RPD is b | ased on t | • | | plicate re | | | | |
| _ | LCSD | | _ | Spike | Matrix | | Rec. | | | RPL |
| Param | Result | Units | Dil. | Amount | Result | Rec. | Limi | | RPD | Limi |
| Chloride | 24.3 | mg/Kg | 1 | 25.0 | < 0.140 | 97 | 90 - 1 | 10 | 0 | 20 |
| Laboratory Control Spike (QC Batch: 38352 | (LCS-1) | RPD is t Date An QC Prep | alyzed: | 2007-06-2 2007-06-1 | 0 | pillate re | | | yzed Bj ared Bj | - |
| Laboratory Control Spike (QC Batch: 38352 | (LCS-1) | Date An QC Prep | alyzed: | 2007-06-2 | 0 | Mat | | | - | - |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 | (LCS-1) | Date An QC Prep | alyzed: | 2007-06-2 | 0 9 | | rix | | ared By | y: ER |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param | (LCS-1) LCS | Date An QC Prep S It | alyzed: paration: | 2007-06-2 2007-06-1 | 0 9 Spike | Mat | rix ult | Prep | ared B | y: ER Rec. Limit |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride | (LCS-1) LCS Resu 12.3 | Date An QC Prep 6 1t 3 n | alyzed: paration: Units ng/Kg | 2007-06-2 2007-06-1 Dil. 1 | 0 9 Spike Amount 12.5 | Mat Res <0. | ulı | Prepa Rec | ared B | y: ER Rec. Limit |
| Caboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the | (LCS-1) LCS Resu 12.3 ne spike result. I LCSD | Date An QC Prep It RPD is b | alyzed: paration: Units ng/Kg pased on 1 | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike | 0 9 Amount 12.5 nd spike duy Matrix | Mat Res <0. plicate re | rix ult 140 sult. Rec. | Prepa Rec 98 | ared B | y: ER Rec. Limit 90 - 110 |
| Caboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the param | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result | Date An QC Prep 6 1t RPD is b Units | alyzed: paration: Units ng/Kg pased on 1 Dil. | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount | 0 9 Amount 12.5 nd spike duy Matrix Result | Mat Res <0. plicate re Rec. | rix ult 140 esult. Limi | Prepa Rec 98 t | RPD | y: ER Rec. Limit 90 - 110 RPD Limi |
| Caboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the param | (LCS-1) LCS Resu 12.3 ne spike result. I LCSD | Date An QC Prep It RPD is b | alyzed: paration: Units ng/Kg pased on 1 | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike | 0 9 Amount 12.5 nd spike duy Matrix | Mat Res <0. plicate re | rix ult 140 sult. Rec. | Prepa Rec 98 t | ared B | y: ER Rec. Limit 90 - 110 RPD |
| • | (LCS-1) LCS Resu 12.3 ne spike result. I LCSD Result 23.3 | Date An QC Prep It RPD is b Units mg/Kg | alyzed: paration: Units ng/Kg pased on 1 Dil. 1 | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 | 0 9 Amount 12.5 nd spike duy Matrix Result <0.140 | Mat Res <0. plicate re Rec. 93 | rix ult 140 esult. Eimi 90 - 1 | Prepa Rec 98 t | RPD | y: ER Rec. Limit 90 - 110 RPD Limi |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th | (LCS-1) LCS Resu 12.3 ne spike result. I LCSD Result 23.3 | Date An QC Prep b lt RPD is b Units mg/Kg RPD is b | alyzed: paration: Units ng/Kg pased on 1 Dil. 1 | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 | 0 9 Amount 12.5 nd spike duy Matrix Result <0.140 | Mat Res <0. plicate re Rec. 93 | rix ult 140 esult. Eimi 90 - 1 | Prepa Rec 98 t | RPD | y: ER Rec. Limit 90 - 110 RPD Limi |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I ked Sample: 123 | Date An QC Prep It RPD is b Units mg/Kg RPD is b 5541 | alyzed: paration: Units ng/Kg pased on t Dil. 1 pased on t | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar | 0 9 Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy | Mat Res <0. plicate re Rec. 93 | rix ult 140 esult. Eec. Limi 90 - 1 esult. | Prepa Rec 98 t | RPD 62 | y: ER Rec. Limit 90 - 110 RPD Limi 20 |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 | Date An QC Prep b lt RPD is b Units mg/Kg RPD is b | alyzed: paration: Units ng/Kg ased on t Dil. 1 pased on t alyzed: | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 | 0 9 Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy | Mat Res <0. plicate re Rec. 93 | rix ult 140 esult. Kec. Limi 90 - 1 esult. | Prepa Rec 98 t 10 | RPD | y: ER Rec. Limit 90 - 110 RPD Limi 20 |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 37541 | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 | Date An QC Prep It RPD is b Units mg/Kg RPD is b 5541 Date Ana | alyzed: paration: Units ng/Kg ased on t Dil. 1 pased on t alyzed: | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-23 | 0 9 Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy | Mat Res <0. plicate re Rec. 93 | rix ult 140 sult. Kec. Limi 90 - 1 sult. | Prepa Rec 98 t 10 | RPD 62 | y: ER Rec. Limit 90 - 110 RPD Limi 20 |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the Param Chloride Percent recovery is based on the Param Chloride Percent recovery is based on the Vlatrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result | Date An QC Prep It RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep | alyzed: paration: Units ng/Kg ased on t Dil. 1 pased on t alyzed: aration: nits | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-23 2007-05-23 | 0 9 Spike Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy | Mat Res <0. plicate re <u>Rec.</u> 93 plicate re | rix ult 140 sult. Fec. Limi 90 - 1 sult. | Prepa Rec 98 t 10 | RPD 62 vzed By ared By | y: ER Rec. Limit 90 - 110 RPD Limi 20 |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param 2 Chloride 2 Percent recovery is based on the 2 Param 2 Chloride 2 Percent recovery is based on the 2 Vlatrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 Param 3 Benzene 3 | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result 0.768 | Date An QC Prep blt RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep | alyzed: paration: Units ng/Kg pased on 1 Dil. 1 pased on 1 pased on 1 alyzed: aration: nits c/Kg | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-22 2007-05-23 2007-05-23 | 0 9 Spike Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy 5 5 5 Spike Amount 1.00 | Mat Res <0. plicate re 93 plicate re Matri Resul <0.003 | xrix 140 esult. Fec. Limi 90 - 1 esult. | Prepa Rec 98 t 10 Analy Prepa Rec. 77 | RPD 62 vzed By ured By 39 | y: ER Rec. Limit 90 - 110 RPD Limi 20 : MT : MT : MT Rec. Limit 0.6 - 14: |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 Param Benzene Foluene | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result 0.768 0.798 | Date An QC Prep blt RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep | alyzed: paration: Units ng/Kg pased on 1 Dil. 1 pased on 1 pased on 1 alyzed: aration: nits g/Kg | 2007-06-2 2007-06-1 Dil. 1 the spike an Spike Amount 12.5 the spike an 2007-05-2: 2007-05-2: 2007-05-2: 2007-05-2: 1 | 0 9 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 5 5 Spike Amount 1.00 1.00 | Mat Res <0 plicate re Rec. 93 plicate re Matri Resul <0.003 <0.003 | xix 140 esult. Fec. Limi 90 - 1 esult. x t 33 72 | Prepa Rec 98 t 10 Analy Prepa Rec. 77 80 | RPD 62 vzed By vzed By ared By 32 43 | y: ER Rec. Limit 90 - 110 RPD Limi 20 : MT : MT : MT Rec. Limit 0.6 - 14: 5.4 - 138 |
| Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 Param Benzene | (LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result 0.768 | Date An QC Prep blt RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep t Umag mg | alyzed: paration: Units ng/Kg pased on 1 Dil. 1 pased on 1 pased on 1 alyzed: aration: nits c/Kg | 2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-22 2007-05-23 2007-05-23 | 0 9 Spike Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy 5 5 5 Spike Amount 1.00 | Mat Res <0. plicate re 93 plicate re Matri Resul <0.003 | xix 140 esult. Fec. Limi 90 - 1 esult. x t 33 72 06 | Prepa Rec 98 t 10 Analy Prepa Rec. 77 | RPD 62 vzed By vzed By ared By 32 43 43 | y: ER Rec. Limit 90 - 110 RPD Limi 20 MT : MT : MT Rec. |

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| Report Date: June 20, 2007 State M SWD | | | | rder: 70525 e M SWD | 26 | | | F | Page Nu | | 58 of 71 (eye.NM |
|--|---|--|--|---|--|--|--|--|--|--|---|
| | MSD | | | Spike | Mat | rix | | Re | :C. | | RPD |
| Param | Result | Units | Dil. | Amount | Res | | Rec. | Lin | | RPD | Limit |
| Benzene | 0.772 | mg/K | | 1.00 | <0.00 | | 77 | 39.6 | | 0 | 20 |
| Toluene | 0.801 | mg/K | | 1.00 | < 0.00 | | 80 | 45.4 | | õ | 20 |
| Ethylbenzene | 0.845 | mg/K | | 1.00 | < 0.00 | | 84 | 48 - | | 1 | 20 |
| Xylene | 2.54 | mg/K | | 3.00 | <0.00 | | 85 | 45.3 | | Ô | 20 |
| Percent recovery is based on the | | | | · | | | | | 112 | | |
| | | | | ni une spine | and bly | | | | | | |
| | M | | MSD | | | Sp | | MS | MSD | | Rec. |
| Surrogate | Res | | Result | Units | _Dil. | _Amo | | Rec. | Rec. | | Limit |
| Triffuorotoluene (TFT) | 0.9 | | 0.922 | mg/Kg | 1 |] | | 94 | 92 | | 5 - 138 |
| 4-Bromofluorobenzene (4-BFB) | 0.9 | 925 | 0.902 | mg/Kg | 3 |] | · | 92 | 90 | 52 | 2.2 - 139 |
| Matrix Spike (MS-1) Spike QC Batch: 37543 Prep Batch: 32545 | ed Sample: | Date | Analyzed reparatio | | | | | | | zed By ared By | |
| | Ν | 1S | | | Spi | ke | Ma | trix | | | Rec. |
| Param | Re | sult | Units | Dil. | Amo | ount. | Re | sult | Rec. | | Limit |
| GRO | • 7. | 98 | mg/Kg | 1 | 10 | .0 | <0 | .459 | 80 | 4(|).7 - 157 |
| Param | MSD Result | Unit | s Dil. | Spike | Mat t Res | trix sult | Rec. | Re Lin | nit | RPD | Limi |
| Param GRO | MSD Result 7.63 | Unit mg/H | s Dil. Kg 1 | Spike Amount 10.0 | Mat t Res <0. | trix sult 459 | Rec. | Re Lin 40.7 | nit | RPD 4 | RPD Limit 19.6 |
| Percent recovery is based on the Param GRO Percent recovery is based on the | MSD Result 7.63 spike result | Unit mg/H t. RPD | $\frac{1}{\log 1}$ is based of | Spike Amount 10.0 | Mat t Res <0. | trix sult 459 ike du | Rec. 76 plicate | Re Lin 40.7 - result. | ait - 157 | 4 | Limit 19.6 |
| Param GRO Percent recovery is based on the | MSD Result 7.63 spike result | Unit mg/H t. RPD IS | $\frac{1}{\sqrt{g}}$ Dil. $\frac{1}{\sqrt{g}}$ Dil. Dis based of MSD | Spike Amount 10.0 on the spike | Mat t Res <0. | trix sult 459 ike du Sp | Rec. 76 plicate ike | Re Lin 40.7 - result. MS | nit - 157 MSD | 4 | Limit 19.6 Rec. |
| Param GRO Percent recovery is based on the Surrogate | MSD Result 7.63 spike result M Res | Unit mg/I t. RPD 1S sult | s Dil. <u>(g 1</u> is based o MSD Result | Spike Amount 10.0 on the spike Units | Mat t Res <0. and spi Dil. | trix sult 459 ike du Sp .Ama | Rec. 76 plicate ike punt | Re Lin 40.7 - result. MS Rec. | nit - 157 MSD Rec. | 4 | Limit 19.6 Rec. Limit |
| Param GRO | MSD Result 7.63 spike result M Res 0.8 | Unit mg/H t. RPD IS | $\frac{1}{\sqrt{g}}$ Dil. $\frac{1}{\sqrt{g}}$ Dil. Dis based of MSD | Spike Amount 10.0 on the spike | Mat t Res <0. | trix sult 459 ike du Sp Amo | Rec. 76 plicate ike punt | Re Lin 40.7 - result. MS | nit - 157 MSD | 4 | Limit 19.6 Rec. Limit 1.9 - 153 |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 | MSD Result 7.63 spike result M Res 0.8 | Unit mg/I t. RPD IS sult 345 341 125560 Date | s Dil. (g 1 is based o MSD Result 0.730 | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg | Mat t Res <0. and spi Dil. 1 1 | trix sult 459 ike du Sp Amo | Rec. 76 plicate ike punt | Re Lin 40.7 - result. MS Rec. 84 | nit - 157 MSE Rec. - 73 - 83 - Analy | 4 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 7: MT |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 | MSD Result 7.63 spike result M Res 0.8 0.8 0.9 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 | Unit mg/I t. RPD 11S 541 125560 Date QC P | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparatio | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-03 | Mat t Res <0. and spi Dil. 1 1 5-25 5-25 5-25 5-25 | trix sult 459 ike du Sp Amo | Rec. 76 plicate ike punt | Re Lim 40.7 - result. MS Rec. 84 94 | nit 157 MSD Rec. 73 83 Analy Prepa | 4 34 58 vzed By | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 2: MT MT MT Rec. |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param | MSD Result 7.63 spike result M Res ed Sample: M Res | Unit mg/I t. RPD IS sult 345 341 125560 Date QC P (S sult | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation Units | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. | Mat t Res <0. and spi Dil. 1 1 5-25 5-25 5-25 Spik Amou | e e trix sult 459 Amo Amo | Rec. 76 plicate ike punt t | Re Lim 40.7 - result. MS Rec. 84 94 | nit 157 MSD Rec. 73 83 Analy Prepa Rec. | 4 34 58 vzed By | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 7: MT MT MT Rec. Limit |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene | MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 | Unit mg/I mg/I t. RPD IS sult 445 941 125560 Date QC P (S sult '26 | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. 1 | Mat t Res <0. and spi Dil. 1 1 5-25 5-25 5-25 Spik Amou 1.00 | e e unt | Rec. 76 plicate ike punt ke Ma Res <0.0 | Re Lim 40.7 - result. MS Rec. 84 94 94 | nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 | 4 34 58 vzed By vzed By as | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 9.6 - 141 |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene | MSD Result 7.63 spike result 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 | Unit mg/I mg/I t. RPD IS sult 445 445 441 125560 Date QC P (S sult '26 '60 | s Dil. <u>Kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg mg/Kg | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. 1 1 | Mat t Res <0. and spi Dil. 1 1 1 5-25 5-25 5-25 5-25 5-25 5-25 5-2 | e e unt | Rec. 76 plicate ike punt ke vunt ke co.0 <0.0 | Re Lim 40.7 - result. MS Rec. 84 94 vtrix sult 0333 0372 | nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76 | 4 34 58 vzed By vzed By as 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 7: MT :: MT Rec. Limit 9.6 - 141 5.4 - 138 |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene | MSD Result 7.63 spike result 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 | Unit mg/I mg/I t. RPD IS sult 445 441 125560 Date QC P (S sult '26 '60 '88 | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> <u>mg/kg</u> mg/kg mg/kg | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. 1 1 1 | Mat t Res <0. and spi Dil. 1 1 1 5-25 5-25 5-25 5-25 5-25 5-25 5-2 | e e h t t t t t t t t t t t t t t t t t | Rec. 76 plicate ike punt ke vount ke count coun | Re Lim 40.7 - result. MS Rec. 84 94 vtrix sult 0333 0372 0206 | nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76 79 | 4 34 58 vzed By vzed By ared By 39 45 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 2.6 - 141 5.4 - 138 8- 141 |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene | MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 | s Dil. Kg 1 is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg mg/Kg mg/Kg mg/Kg | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 | Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 3.00 | e e int | Rec. 76 plicate ike bunt Ma Res <0.0 <0.0 <0.0 <0.0 <0.0 | Re Lim 40.7 - result. MS Rec. 84 94 94 trix sult 0333 0372 0206 0259 | nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76 | 4 34 58 vzed By vzed By ared By 39 45 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 2.6 - 141 5.4 - 138 18 - 141 |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene | MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 | s Dil. Kg 1 is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg mg/Kg mg/Kg mg/Kg | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 | Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 3.00 | e e int | Rec. 76 plicate ike bunt Ma Res <0.0 <0.0 <0.0 <0.0 <0.0 | Re Lim 40.7 - result. MS Rec. 84 94 94 trix sult 0333 0372 0206 0259 | nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76 79 | 4 34 58 vzed By vzed By ared By 39 45 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 2.6 - 141 5.4 - 138 18 - 141 |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the | MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 t. RPD | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> mg/kg mg/kg mg/kg mg/kg is based of | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 1 1 5 n the spike | Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 2. and spi wat | e unt) ike du Sp Amo Amo () ()))))))))))))))) | Rec. 76 plicate ike punt Ma Rec <0.0 <0.0 <0.0 <0.0 <0.0 plicate | Re Lim 40.7 - result. MS Rec. 84 94 trix sult 0333 0372 0206 0259 result. R | nit - 157 MSD Rec. - 73 - 83 - 83 - 41 - 157 - 157 - 157 - 73 - 73 - 76 - 79 - 79 - 79 - 79 - 90 | 4 34 58 vzed By ared By 45 45 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 7: MT *: MT Rec. Limit 1.6 - 141 5.4 - 138 18 - 141 5.3 - 142 RPD |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the Param | MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | Unit mg/I mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 t. RPD Units | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg is based of s Dil. | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 1 1 1 1 1 | Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 2 and spi e and spi | e unt) ike du Sp Amo Amo ike du | Rec. 76 plicate ike bunt Ma Res <0.0 <0.0 <0.0 <0.0 <0.0 | Re Lim 40.7 - result. MS Rec. 84 94 trix sult 0333 0372 0206 0259 result. R | nit - 157 MSD Rec. - 73 - 83 - 4 - 83 - 4 - 157 - 157 - 73 - 73 - 76 - 79 - 70 - | 4 34 58 vzed By vzed By ared By 39 45 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 7: MT *: MT Rec. Limit 1.6 - 141 5.4 - 138 18 - 141 5.3 - 142 RPD |
| Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene | MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 t. RPD | s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg is based of s Dil. | Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 1 1 5 n the spike | Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 2. and spi wat | e unt) ike du Sp Amo Amo ike du | Rec. 76 plicate ike punt Ma Rec <0.0 <0.0 <0.0 <0.0 <0.0 plicate | Re Lim 40.7 - result. MS Rec. 84 94 trix sult 0333 0372 0206 0259 result. Ry Lin | nit - 157 MSD Rec. - 73 - 83 - 83 - 41 - 157 - 157 - 157 - 73 - 73 - 76 - 79 - 79 - 79 - 79 - 90 | 4 34 58 vzed By ared By 45 45 45 | Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 y: MT : MT Rec. Limit 9.6 - 141 5.4 - 138 |

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| Report Date: June 20, 2007 State M SWD | | | | rder: 70523 e M SWD | | | | | | | 59 of 71 eye.NM |
|---|--|--------------|------------------------|-------------------------|-------------|---------------------|---------|--------------------|--------------|--------------------|--------------------|
| matrix spikes continued | | | | | | | | | | | |
| , | MSD | | | Spike | Mat | rix: | | R | ec. | | RPD |
| Param | Result | Unit | s Dil. | Amount | Res | ult | Rec. | Liı | nit | RPD | Limit |
| Ethylbenzene | 0.814 | mg/K | g 1 | 1.00 | <0.00 | 0206 | 81 | 48 - | 141 | 3 | 20 |
| Xylene | 2.44 | mg/K | .g 1 | 3.00 | <0.00 | 0259 | 81 | 45.3 | - 142 | 3 | · 20 |
| Percent recovery is based on the s | spike result | . RPD | is based o | on the spike | and spi | ike duj | olicate | result. | | | |
| | M | IS | MSD | | | Spi | ke | MS | MSI |) | Rec. |
| Surrogate | Re | sult | Result | Units | Dil. | Amo | unt | Rec. | Rec | | Limit |
| Trifluorotoluene (TFT) | 0.8 | 313 | 0.936 | mg/Kg | 1 | 1 | | 81 | 94 | 51 | .5 - 138 |
| 4-Bromofiuorobenzene (4-BFB) | 0.7 | 790 | 0.911 | mg/Kg | 1 | 1 | | 79 | 91 | 52 | .2 - 139 |
| Matrix Spike (MS-1) Spike QC Batch: 37547 Prep Batch: 32547 | d Sample: | Date | Analyzec reparatic | | | | | | | vzed By ared By | |
| | N | 1S | | | Spi | ike | Ма | trix | | | Rec. |
| Param | Re | sult. | Units | Dil. | Amo | ount | Re | sult | Rec. | | Limit |
| GR.O | 7. | 59 | mg/Kg | 1 | 10 | .0 | <0. | 459 | 76 | 40 | 1.7 - 157 |
| Percent recovery is based on the s | spike result | . RPD | is based | on the spike | e and spi | ike du | plicate | result. | | | |
| | MSD | | | Spike | Mat | trix | | Re | ec. | | RPD |
| Param | Result | Uni | ts Dil | Amoun | t Res | sult | Rec. | Lir | nit | RPD | Limit |
| GRO | 8.51 | mg/ | Kg 1 | 10.0 | <0. | 459 | 85 | 40.7 | - 157 | 11 | 19.6 |
| Percent recovery is based on the s | spike result | . RPD | is based | on the spike | e and spi | ike du | plicate | result. | | | |
| | | IS | MSD | | | Sp | ke | MS | MSI | | Rec. |
| Surrogate | | sult | Result | Units | Dil. | Amo | ount | Rec. | Rec | | Limit |
| Trifluorotoluene (TFT) | | 306 | 0.898 | mg/Kg | 1 |] | | 81 | 90 | | .9 - 155 |
| 4-Bromofluorobenzene (4-BFB) | 0.8 | 384 | 0.991 | mg/Kg | 1 |] | | 88 | 99 | 58 | 5.5 - 153 |
| Matrix Spike (MS-1) Spike | d Sample: | 125578 | | | | | | | | | |
| QC Batch: 37548 | - | Date | Analyzed | l: 2007-0 | 5-25 | | | | Anal | vzed By | MT |
| Prep Batch: 32548 | | | | n: 2007-0 | | | | | | ared By | |
| • | | ~ | · • | | | | | | fre | | |
| | М | S | | | Spik | e | Mat | rix | | | Rec. |
| Param | Res | | Units | Dil. | Amou | | Res | | Rec. | | Limit |
| Benzene | 0.9 | | mg/Kg | 1 | 1.00 | | <0.0 | | 91 | | 0.6 - 141 |
| Toluene | 0.9 | 28 | mg/Kg | 1 | 1.00 |) | <0.0 | | 93 | 43 | 5.4 - 138 |
| | 0.9 | | mg/Kg | 1 | 1.00 |) | <0.0 | | 92 | | 8 - 141 |
| | 2 | 77 | mg/Kg | 1 | 3.00 |) | <0.0 | 0259 | 92 | 43 | 5.3 - 142 |
| | L. | | • • • | on the spike | e and sp | ike du | plicate | result. | | | |
| Ethylbenzene Xylene Percent recovery is based on the s | | t. RPD | is based | our due optie | | | | | | | |
| Xylene Percent recovery is based on the s | spike result MSD | | | Spike | Mat | | | | ec. | | RPD |
| Xylene Percent recovery is based on the s Param | spike resul MSD Result | Unit | s Dil. | Spike Amount | Res | ult | Rec. | Li | mit | RPD | Limit |
| Xylene Percent recovery is based on the s Param Benzene | spike result MSD Result 0.878 | Unit mg/H | s Dil. Xg l | Spike Amount 1.00 | Res <0.0 | ult. 0333 | 88 | Li 39.6 | mit - 141 | 3 | Limit 20 |
| Xylene | spike resul MSD Result | Unit | s Dil. Ig 1 Ig 1 | Spike Amount | Res | ult 0333 0372 | | Li 39.6 45.4 | mit | | Limit |

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| Report Date: June 20, 2007 State M SWD | | .v | | der: 70525 M SWD | 26 | | | Page Nu | | 60 of 71 seye,NM |
|---|----------------------|----------------------------|-------------------|---------------------|----------------|-----------|-------------------|-------------|--|---------------------|
| matrix spikes continued | | | | | | | | | | |
| | MSD | | | Spike | Matrix | | R | ec. | | RPD |
| Param | Result | Units | Dil. | Amount | Result | | | mit | RPD | Limit |
| Xylene | 2.68 | mg/Kg | 1 | 3.00 | < 0.0025 | | 45.3 | - 142 | 3 | 20 |
| Percent recovery is based on the | spike result. | | based or | the spike | and spike | duplicate | result. | | | |
| •* • | - | | | | | • | | 2.107 | `````````````````````````````````````` | 'n |
| | MS | | SD | T | ויס | Spike | MS | MSI | | Rec. |
| Surrogate Trifluorotoluene (TFT) | Rest | | <u>sult</u> 02 | Units | | Amount1 | Rec. | Rec. | | Limit |
| 4-Bromofluorobenzene (4-BFB) | $1.1 \\ 1.0$ | | | mg/Kg mg/Kg | 1 1 | 1 | $\frac{111}{104}$ | 102 96 | | 2.2 - 139 |
| P Di Ginoni del Obenzene (4-Di D) | 1.0 | | | mg/ng | 1 | 1 | | | | |
| Matrix Spike (MS-1) Spike | d Sample: 1 | 25578 | | | | | | | | |
| , . | | | * | | | | | | | |
| QC Batch: 37549 | | Date Ar | | | | | | | | ·: MT |
| Prep Batch: 32548 | | QC Prej | paration | I: 2007-05 | 5-25 | | | Prepa | ared By | : MT |
| | | | | | | | | | | |
| | M | - | | | Spike | | atrix | | | Rec. |
| Param | Res | | Units | Dil. | Amoun | | sult | Rec. | | Limit |
| GRO | 8.8 | 0 n | ng/Kg | 11 | 10.0 | <0 | .459 | 88 | 4(|).7 - 157 |
| Percent recovery is based on the | spike result. | RPD is | based or | n the spike | and spike | duplicate | e result. | | | |
| | MSD | | | Spike | Matrix | ¢ | R | ec. | | RPD |
| Param | Result | Units | Dil. | Amount | | | | nit | RPD | Limit |
| GR.0 | 8.99 | mg/Kg | 1 | 10.0 | <0.45 | | | - 157 | 2 | 19.6 |
| Percent recovery is based on the | spike result. | | based or | n the spike | | | e result. | | | |
| | MS | с м | SD | - | | Spike | MS | MSI | ٦ | Rec. |
| Surrogate | Rest | | sult | Units | Dil. A | Amount | Rec. | Rec | | Limit |
| Trifiuorotoluene (TFT) | 1.0 | | .06 | mg/Kg | 1 | 1 | 102 | 106 | | 1.9 - 155 |
| 4-Bromofluorobenzene (4-BFB) | 1.0 | | .12 | mg/Kg | 1 | 1 | 113 | 100 | | 3.5 - 153 |
| Matrix Spike (MS-1) Spike QC Batch: 37553 Prep Batch: 32551 | ed Sample: 1 | 25555 Date Ar QC Pre | | | | | | | yzed B ared B | y: TG y: TG |
| | M | 3 | | | Spike | M | atrix | | | Rec. |
| Param | Res | | Units | Dil. | Amour | | esult | Rec. | | Limit |
| DRO | 20 | | ng/Kg | 1 | 250 | | 10.7 | 80 | 4 | 7.5 - 127 |
| Percent recovery is based on the | spike result. | | | n the spike | and spike | duplicate | e result. | | | |
| | MSD | | | Spike | Matri: | x | R | ec. | | RPD |
| Param | Result | Units | Dil. | Amount | | | | mit | RPD | Limit |
| | 205 | mg/Kg | 1 | 250 | <10.7 | | | - 127 | 2 | 20 |
| | | DDD · | hased o | n the spike | and spike | duplicate | e result. | | | |
| DRO | spike result. | RPD 15 | babed 0. | - | | | | | | |
| Percent recovery is based on the MS | spike result. MSI | | | - | Spike | e N | 4S | MSD | | Rec. |
| DRO Percent recovery is based on the | MSI |) | Units | Dil. | Spike Amoui | | AS .ec. | MSD Rec. | | Rec. Limit |

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| Report Date: June 20, 200 State M SWD |)7 | | | Work Orde State N | | 3 | | Page | Vumber: Buc | keye,NN |
|--|----------------------------------|---|--|---|---|---|---|--|--|--|
| Matrix Spike (MS-1) | Spiked | Sample: 125 | 5571 | | | | | | | |
| QC Batch: 37554 Prep Batch: 32551 | | | | nalyzed: eparation: | 2007-05-1 2007-05-1 | | | | alyzed E pared B | |
| | | MS | | | | Spike | Matri | ix. | | Rec. |
| Param | | Resul | t. | Units | Dil. | Amount | Resu | lt Re | . | Limit |
| DRO | | 224 | | mg/Kg | 1 | 250 | <10. | 7 90 | 4 | 7.5 - 12 |
| Percent recovery is based o | on the sp | ike result. I | RPD is | based on | the spike a | ınd spike dı | iplicate re | sult. | | |
| | | MSD | | | Cailes | Matrix | | Rec. | | RPI |
| Param | | Result | Units | Dil. | Spike Amount | Result | Rec. | Limit | RPD | Limi |
| DRO | | | mg/K | | 250 | <10.7 | | 47.5 - 127 | 2 | 20 |
| Percent recovery is based of | m the sn | | | | | | · | | | |
| . croche recevery is pased (| | | 10 10 18 | Jased OI | me phike s | ara phite ar | | | | |
| 0 | MS | MSD | | . | | Spike | MS | MSI | | Rec. |
| Surrogate | Result | Result | | Units | Dil. | Amount | Rec. | Rec | | Limit |
| n-Triacontane | 227 | 228 |] | ng/Kg | 1 | 150 | 151 | 152 | (: | 32.5 - 16 |
| Prep Batch: 32551 | | | QC Pr | eparation: | 2007-05- | 25 | | 11 | epared E | \mathbf{y} : $\mathbf{T}\mathbf{Q}$ |
| Prep Batch: 32551 | | | QC Pr | eparation: | 2007-05- | | | | epared E | - |
| | | MS | | - | | Spike | Matr | ix | - | Rec. |
| Param | | MS Resul | t. | Units | Dil. | Spike Amount | Resu | ix lt Re | <i>с</i> . | Rec. Limit |
| Param DRO | on the sp | MS Resul 206 | t. | Units mg/Kg | Dil. | Spike Amount 250 | Resu <10. | ix lt Re 7 82 | <i>с</i> . | Rec. Limit |
| Param | on the sp | MS Resul 206 ike result. H | t. | Units mg/Kg | Dil. 1 the spike a | Spike Amount 250 and spike du | Resu <10. | ix lt Re 7 82 sult. | <i>с</i> . | Rec. Limit 17.5 - 12 |
| Param DRO Percent recovery is based o | on the sp | MS Resul 206 ike result. H MSD | t RPD is | Units mg/Kg based on | Dil. 1 the spike a Spike | Spike Amount 250 and spike du Matrix | Resu <10. uplicate re | ix lt Re 7 82 esult. Rec. | с ?4 | Rec. Limit 47.5 - 12 RPI |
| Param DRO Percent recovery is based o Param | on the sp | MS Resul 206 ike result. I MSD Result | t RPD is Units | Units mg/Kg based on Dil. | Dil. 1 the spike a Spike Amount | Spike <u>Amount</u> 250 und spike du Matrix Result | Resu <10. uplicate re Rec. | ix lt Re 7 82 soult. Rec. Limit | c. 4 RPD | Rec. Limit 17.5 - 12 RPI Limi |
| Param DRO Percent recovery is based o Param DRO | | MS Resul 206 ike result. I MSD Result 207 | t RPD is Units mg/K | Units mg/Kg based on Dil. g 1 | Dil. 1 the spike a Spike Amount 250 | Spike Amount 250 and spike du Matrix Result <10.7 | Resu <10. iplicate re Rec. 83 | ix <u>lt Re</u> 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127 | с ?4 | Rec. Limit 47.5 - 12 RPI |
| Param DRO Percent recovery is based o Param | | MS Resul 206 ike result. I MSD Result 207 | t RPD is Units mg/K | Units mg/Kg based on Dil. g 1 | Dil. 1 the spike a Spike Amount 250 | Spike Amount 250 and spike du Matrix Result <10.7 | Resu <10. iplicate re Rec. 83 | ix <u>lt Re</u> 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127 | c. 4 RPD | Rec. Limit 17.5 - 12 RPI Limi |
| Param DRO Percent recovery is based o Param DRO | | MS Resul 206 ike result. I MSD Result 207 | t RPD is Units mg/K | Units mg/Kg based on Dil. g 1 | Dil. 1 the spike a Spike Amount 250 | Spike Amount 250 and spike du Matrix Result <10.7 | Resu <10. iplicate re Rec. 83 | ix <u>lt Re</u> 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127 | 2. 4 RPD 0 | Rec. Limit 17.5 - 12 RPI Limi |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate | on the sp MS Result | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result | t RPD is Units mg/Kj RPD is | Units mg/Kg based on Dil. g 1 based on Units | Dil. 1 the spike a Spike Amount 250 | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount | Resu <10. iplicate re Rec. 83 iplicate re MS Rec. | ix <u>It</u> Re <u>7 85</u> esult. <u>Rec.</u> Limit <u>47.5 - 127</u> esult. MSI Rec | c. 2 4 RPD 0 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of | on the sp MS | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD | t RPD is Units mg/Kj RPD is | Units mg/Kg based on Dil. g 1 based on | Dil. 1 the spike a Spike Amount 250 the spike a | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike | Resu 210. 1plicate re Rec. 83 1plicate re MS | ix <u>It</u> Re 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127 ssult. MSI | c. 2 4 RPD 0 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate | on the sp MS Result 229 | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result | t RPD is mg/K RPD is | Units mg/Kg based on Dil. g 1 based on Units | Dil. 1 the spike a Spike Amount 25() the spike a Dil. | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount | Resu <10. iplicate re Rec. 83 iplicate re MS Rec. | ix <u>It</u> Re <u>7 85</u> esult. <u>Rec.</u> Limit <u>47.5 - 127</u> esult. MSI Rec | c. 2 4 RPD 0 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate a-Triacontane Matrix Spike (MS-1) QC Batch: 37618 | on the sp MS Result 229 | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123 | t RPD is mg/K RPD is 5620 Date A | Units mg/Kg based on Dil. g 1 based on Units mg/Kg | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 | Resu <10. iplicate re Rec. 83 iplicate re MS Rec. | ix <u>It</u> Re <u>7</u> 82 sult. <u>Rec.</u> <u>Limit</u> <u>47.5 - 127</u> esult. <u>MSI</u> <u>Rec</u> <u>151</u> | c. RPD 0 | Rec. Limit 17.5 - 12 RPI Lim 20 Rec. Limit 32.5 - 16 |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) | on the sp MS Result 229 | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123 | t RPD is mg/K RPD is 5620 Date A | Units mg/Kg based on Dil. g 1 based on Units mg/Kg | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 | Resu <10. iplicate re Rec. 83 iplicate re MS Rec. | ix <u>It</u> Re <u>7</u> 82 sult. <u>Rec.</u> <u>Limit</u> <u>47.5 - 127</u> esult. <u>MSI</u> <u>Rec</u> <u>151</u> | c. 2 4 RPD 0 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate a-Triacontane Matrix Spike (MS-1) QC Batch: 37618 | on the sp MS Result 229 | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123 | t RPD is mg/K RPD is 5620 Date A | Units mg/Kg based on Dil. g 1 based on Units mg/Kg | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 | Resu <10. iplicate re Rec. 83 iplicate re MS Rec. | ix <u>It</u> Re 7 8: rsult. <u>Rec.</u> <u>Limit</u> 47.5 - 127 rsult. <u>MSI</u> <u>Rec</u> 151 Ar Pr | c. RPD 0 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param | on the sp MS Result 229 | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123 MS Result | t RPD is mg/K RPD is 5620 Date A QC Pr | Units mg/Kg based on Dil. g 1 based on Units mg/Kg analyzed: eparation: Units | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 | Resu oplicate res Rec. 83 oplicate res MS Rec. 153 | ix <u>It</u> Re 7 8: 2501t. Rec. Limit 47.5 - 127 2501t. MSI <u>Rec</u> 151 Ar Pr x t. Rec. 151 | c. RPD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 By: KE By: KE By: KE |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param Benzene | on the sp MS Result 229 | MS Resul 206 ike result. F MSD Result 207 ike result. F MSD Result 227 Sample: 125 Sample: 125 MS Result 0.756 | t RPD is mg/Kj RPD is 5620 Date A QC Pr t | Units mg/Kg based on Dil. g 1 based on Units mg/Kg analyzed: eparation: Units ng/Kg | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- 2007-05- 1 | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29 | Resu oplicate res Rec. 83 oplicate res MS Rec. 153 Matri Resul <0.003 | ix lt Re 7 82 ssult. Rec. Limit 47.5 - 127 esult. MSI Rec 151 Ar Pr x t Re 33 7 | c. RPD 0 0 alyzed H epared E | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 By: KE By: KE By: KE By: KE By: KE |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param Benzene Foluene | on the sp MS Result 229 | MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 12; MS Result 0.756 0.777 | t RPD is mg/Kj RPD is 5620 Date A QC Pr t | Units mg/Kg based on Dil. g 1 based on Units mg/Kg snalyzed: eparation: Units ng/Kg ng/Kg | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- Dil. 1 1 | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29 29 29 29 | Resu 210. 1plicate re 83 1plicate re MS Rec. 153 Matri Resul <0.003 <0.003 | ix <u>lt</u> Re <u>7 85</u> esult. <u>Rec.</u> <u>Limit</u> <u>47.5 - 127</u> esult. <u>MSI</u> <u>Rec</u> <u>151</u> <u>151</u> <u>Ar</u> Pr <u>x</u> <u>t</u> Re <u>33 7</u> 72 7 | c. RPD 0 0 2 alyzed H epared E 5 3 5 4 | Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 52.5 - 16 By: KE By: KE By: KE Rec. Limit 39.6 - 14 45.4 - 13 |
| Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param Benzene | on the sp MS Result 229 | MS Resul 206 ike result. F MSD Result 207 ike result. F MSD Result 227 Sample: 125 Sample: 125 MS Result 0.756 | t RPD is mg/Kj RPD is 5620 Date A QC Pr t | Units mg/Kg based on Dil. g 1 based on Units mg/Kg analyzed: eparation: Units ng/Kg | Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- 2007-05- 1 | Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29 | Resu oplicate res Rec. 83 oplicate res MS Rec. 153 Matri Resul <0.003 | ix <u>lt</u> Re <u>7 8:</u> ssult. <u>Rec.</u> Limit <u>47.5 - 127</u> ssult. <u>MSJ</u> <u>Rec</u> <u>151</u> <u>Ar</u> Pr <u>x</u> <u>kt</u> Re <u>333 7</u> <u>772 7</u> 206 8 | c. RPD 0 0 alyzed H epared E c. 5 3 8 4 0 | Rec. Limit 17.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 By: KE By: KE Rec. Limit 39.6 - 14 |

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| Report Date: June 20, 2007 State M SWD | | | - | rder: 705255 e M SWD | 26 | | | | Page Nu | | 62 of 7. eye.NM |
|---|---|--|---|---|--|---|---------------------------------------|---|--|--------------------------------------|---|
| | MSD | | | Spike | Mat: | rix | | R | ec. | | RPD |
| Param | Result | Units | Dil. | Amount | Rest | | Rec. | Li | mit | RPD | Limiu |
| Benzene | 0.774 | mg/Kg | 1 | 1.00 | <0.00 | | 77 | 39.6 | - 141 | 2 | 20 |
| Foluene | 0.798 | mg/Kg | | 1.00 | <0.00 | | 80 | 45.4 | - 138 | 3 | 20 |
| Ethylbenzene | 0.817 | mg/Kg | | 1.00 | <0.00 | 1206 | 82 | 48 - | - 141 | 3 | 20 |
| Xylene | 2.47 | mg/Kg | | 3.00 | <0.00 | | 82 | 45.3 | - 142 | 3 | 20 |
| Percent recovery is based on the | spike result | . RPD is | based c | n the spike | and spi | ke dur | licate | result. | | | |
| | М | is N | ASD | | | Spil | xe | MS | MSD | | Rec. |
| Surrogate | Res | | esult | Units | Dil. | Amo | unt | Rec. | Rec. | | Limit |
| Trifluorotoluene (TFT) | 0.8 | 42 0 | .875 | mg/Kg | 1 | 1 | | 84 | 88 | | .5 - 138 |
| 4-Bromofluorobenzene (4-BFB) | 0.7 | 99 0 | .846 | mg/Kg | 1 | 1 | | 8(1 | 85 | 52. | .2 - 139 |
| QC Batch: 37619 Prep Batch: 32598 | | | .nalyzed eparatio | | | | | | - | vzed By ured By | |
| | N | IS | | | Spi | | | trix | | | Rec. |
| Param | Re | sult | Units | Dil. | Amo | | Re | sult | Rec. | | Limit |
| GRO | 1(|).5 | mg/Kg | 1 | 10. | .0 | <0 | .459 | 105 | 40 | .7 - 15 |
| Percent recovery is based on the Param | MSD Result | Units | Dil. | Spike Amount | Mat Res | rix ult | Rec. | R/ Lii | ec. mit | RPD | RPD Limi |
| | | mg/Kg | z 1 | 10.0 | <0.4 | | 108 | | - 157 | 3 | 19.6 |
| | 10.8 | | | (1 *1 | 1. | | | | | | |
| | spike result | . RPD is | based o | on the spike | and spi | | | MS | | | _ |
| Percent recovery is based on the | spike result M | RPD is | based o | | | Spi | ĸe | | MSD | | Rec. |
| Percent recovery is based on the Surrogate | spike result M Res | . RPD is IS M sult R | based o MSD .esult | Units | Dil. | Spi Amo | ĸe | Rec. | Rec. |] | Limit |
| Percent recovery is based on the Surrogate Irifluorotoluene (TFT) | spike result M Res 0.9 | . RPD is IS M sult R 940 0 | based of MSD esult 0.932 | Units mg/Kg | Dil. | Spi Amo 1 | ĸe | Rec. 94 | Rec. 93 | 34 | Limit .9 - 15 |
| GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) | spike result M Res 0.9 1.1 | . RPD is iS M sult R 140 0 08 1 | based o MSD .esult | Units | Dil. | Spi Amo | ĸe | Rec. | Rec. | 34 | Limit 9 - 153 |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) | spike result M Res 0.9 | RPD is iS M sult R 440 0 08 : 125591 Date A | based of MSD esult 0.932 | Units mg/Kg mg/Kg : 2007-05 | Dil. 1 1-30 | Spi Amo 1 | ĸe | Rec. 94 | Rec. 93 108 Analy | 34 | Limit .9 - 15: .5 - 15: .5 TG |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 | spike result M Res 0.9 1. d Sample: | . RPD is iS M Mult R Mult R Mu | based of MSD esult 1.08 nalyzed eparatio | Units mg/Kg mg/Kg : 2007-05 n: 2007-05 | Dil. 1 1-30 -29 | Spi Amo 1 1 | ke unt | Rec. 94 108 | Rec. 93 108 Analy Prepa | 34 58 vzed By vzed By | Limit .9 - 15: .5 - 15: : TG : TG Rec. |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param | spike result M Res 0.9 1. d Sample: | . RPD is iS M Mult R Mult R Mu | based of MSD esult 1.08 nalyzed eparatio Units | Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. | Dil. 1 1 -30 -29 Spi Amo | Spi Amo 1 1 | ke unt Ma Re | Rec. 94 108 | Rec. 93 108 Analy Prepa Rec. | 34 58 vzed By ared By | Limit .9 - 15: .5 - 1 |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) -Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO | spike result M Res 0.9 1. d Sample: | . RPD is is N wilt R 040 0 08 1 125591 Date A QC Pr MS esult 502 | based of MSD .932 1.08 .nalyzed eparatio Units mg/Kg | Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1 | Dil. 1 1 -30 -29 | Spi Amo 1 1 1 | ke unt Ma Re 1 | Rec. 94 108 atrix sult 18 | Rec. 93 108 Analy Prepa Rec. 201 | 34 58 vzed By ared By | Limit .9 - 153 .5 - 153 :- TG :- TG :- TG Rec. Limit |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) -Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO | spike result M Res 0.9 1. d Sample: | . RPD is is N wilt R 040 0 08 1 125591 Date A QC Pr MS esult 502 | based of MSD .932 1.08 .nalyzed eparatio Units mg/Kg | Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1 | Dil. 1 1 -30 -29 | Spi Amo 1 1 1 | ke unt Ma Re 1 | Rec. 94 108 atrix sult 18 | Rec. 93 108 Analy Prepa Rec. 201 | 34 58 vzed By ared By | Limit .9 - 15. .5 - 15. .5 - 15. |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO Percent recovery is based on the | spike result M Res 0.9 1. d Sample: d Sample: | . RPD is is M sult R 440 0 08 : 125591 Date A QC Pr MS esult 502 . RPD is | based of MSD esult .932 1.08 | Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1 m the spike Spike | Dil. 1 1 -30 -29 Amo 2: and spi Ma: | Spi Amo 1 1 1 sike punt 50 ke duj trix | ke unt Ma Re 1 olicate | Rec. 94 108 attrix sult 18 result. R | Rec. 93 108 Analy Prepa Rec. 201 | 34 58 vzed By ared By 47 | Limit .9 - 15i .5 - 12i .5 - 12i .5 - 12i |
| Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO Percent recovery is based on the Param | spike result M Res 0.9 1. d Sample: | . RPD is is M sult R 440 0 08 : 125591 Date A QC Pr MS esult 502 . RPD is | based of MSD esult .932 1.08 analyzed eparatio Units mg/Kg based of s Dil | Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1 m the spike Spike | Dil. 1 1 -30 -29 Amo 2; and spi Ma: t Res | Spi Amo 1 1 1 sike punt 50 ke duj trix | ke unt Ma Re 1 | Rec. 94 108 attrix sult 18 result. R Li | Rec. 93 108 Analy Prepa Rec. 201 | 34 58 vzed By ared By | Limit .9 - 153 .5 - 153 : TG : TG Rec. |

²⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
²⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| Report Date: June 20, State M SWD | 2007 | | | Work Orde State N | er: 7052526 4 SWD | ; | | Pa | age N | umber: Buck | 63 of 71 eve,NM |
|--|--|---|---|--|--|---|--|---|--|---|--|
| | MS | MSD | | | | Spike | MS | 3 | MSD | | Rec. |
| Surrogate | Result | Result | | Units | Dil. | Amount | Rec | | Rec. | | Limit |
| n-Triacontane | 221 | 228 | | ng/Kg | 1 | 150 | 147 | | 152 | 62 | .5 - 164 |
| | | | | | · · · | | | | | | |
| Matrix Spike (MS-1 |) Spiked S | ample: 120 | 6875 | | | | | | | • | |
| QC Batch: 38253 | | | Date A | nalyzed: | 2007-06-3 | 16 | | | Ana | lyzed By | ·: ER |
| Prep Batch: 33118 | | | | eparation: | 2007-06-3 | 16 | | | | pared By | |
| | | MS | | | | Spike | Mat | rix | | | Rec. |
| Param | | Resu | | Units | Dil. | Amount | Res | | Rec. | | Limit |
| Chloride | 27 | | | mg/Kg | | 62.5 | 7.11 | | 45 | | .6 - 117 |
| Percent recovery is bas | ed on the spil | ke result. 1 | RPD is | | | | | | | | |
| | | MSD | | | Spike | Matrix | | Rec | | | RPD |
| Param | | Result | Units | Dil. | Amount | Result | Rec. | Lim | | RPD | Limit |
| Chloride | 28 | 33.9 | mg/K | | 62.5 | 7.1162 | 43 | 75.6 - | | 3 | 20 |
| Matrix Spike (MS-1 QC Batch: 38254 | | ample: 12 | 5575 Date A | nalyzed: | 2007-06- | | fuicane i | | | lyzed By | |
| Matrix Spike (MS-1 QC Batch: 38254 | | ample: 12 | 5575 Date A | | | 17 | pincaue r | | | lyzed By pared By | |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 | | ample: 12 | 5575 Date A QC Pr | nalyzed: eparation: | 2007-06- 2007-06- | 17 16 Spike | Mat | rix | Preț | pared By | r: ER. Rec. |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param | | ample: 12 MS Resul | 5575 Date A QC Pr | nalyzed: eparation: Units | 2007-06- 2007-06- Dil. | 17 16 Spike Amount | Mat Res | rix ult | Prep Rec. | pared By | r: ER. Rec. Limit |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride |) Spiked S | ample: 12 MS Resul 103 | 5575 Date A QC Pr t | nalyzed: eparation: <u>Units</u> mg/Kg | 2007-06- 2007-06- Dil. 5 | 17 16 Spike Amount 62.5 | Mat Res 49.1 | rix ult 275 | Preț | pared By | r: ER. Rec. Limit |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride |) Spiked S | MS Resul 103 ke result. | 5575 Date A QC Pr t | nalyzed: eparation: <u>Units</u> mg/Kg | 2007-06- 2007-06- Dil. 5 | 17 16 Amount 62.5 and spike du | Mat Res 49.1 | rix ult 275 | Prep Rec. | pared By | r: ER Rec. Limit .6 - 117 |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas |) Spiked S | MS Resul 103 ke result. 1 MSD | 5575 Date A QC Pr t. | unalyzed: eparation: <u>Units</u> mg/Kg based on | 2007-06- 2007-06- Dil. 5 the spike a Spike | 17 16 Amount 62.5 and spike du Matrix | Mat Res 49.1 plicate 1 | rix ult 275 result. Rec | Prep Rec. 86 | pared By | r: ER. Rec. Limit .6 - 117 RPD |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param |) Spiked S | MS Resul 103 Result. MSD Result. | 5575 Date A QC Pr t. RPD is Units | unalyzed: eparation: <u>Units</u> mg/Kg based on Dil. | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount | 17 16 Amount 62.5 and spike du Matrix Result | Mat Res 49.1 plicate r Rec. | rix ult 275 result. Rec Lim | Prep Rec. 86 | 75 RPD | r: ER. Rec. Limit .6 - 117 RPD Limit |
| Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride |) Spiked S ed on the spir | MS Resul 103 ke result. 1 MSD Result 107 | 5575 Date A QC Pr t. RPD is Units mg/Kg | Units mg/Kg based on Dil. | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 | 17 16 Amount 62.5 Ind spike du Matrix Result 49.1275 | Mat Res 49.1: plicate p Rec. 92 | rix ult 275 result. Rec Lim 75.6 - | Prep Rec. 86 | pared By | r: ER Rec. Limit .6 - 11 RPI |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param |) Spiked S ed on the spir ed on the spir | MS Resul 103 ke result. 1 MSD Result. 107 ke result. 1 ke result. 1 ke result. 1 | 5575 Date A QC Pr t. RPD is mg/Kg RPD is 5576 Date A | Units mg/Kg based on Dil. | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 | 17 16 Amount 62.5 and spike du Matrix Result 49.1275 and spike du | Mat Res 49.1: plicate p Rec. 92 | rix ult 275 result. Rec Lim 75.6 - | Prep Rec. 86 it 117 Ana | 75 RPD | r: ER Rec. Limit .6 - 117 RPD Limit 20 |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 38310 Prep Batch: 33169 |) Spiked S ed on the spir ed on the spir | MS Resul 103 ke result. 1 MSD Result 107 ke result. 1 sample: 12 | 5575 Date A QC Pr t. RPD is mg/Kg RPD is 5576 Date A QC Pr | Units mg/Kg based on <u>Dil.</u> based on hased on | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06- 2007-06- | 17 16 Amount 62.5 and spike du Matrix Result 49.1275 and spike du 18 18 | Mat Res 49.1 plicate n Rec. 92 plicate n | rix ult 275 result. Rec Lim 75.6 - result. | Prep Rec. 86 it 117 Ana Prep | red By 75 <u>RPD</u> 4 lyzed By bared By | r: ER Rec. Limit .6 - 117 RPD Limit 20 ER |
| Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 38310 |) Spiked S ed on the spir ed on the spir | MS Resul 103 ke result. 1 MSD Result 107 ke result. 1 sample: 12 MS Result 107 ke result. 1 Sample: 12 | 5575 Date A QC Pr t. RPD is mg/Kg RPD is 5576 Date A QC Pr S ilt | Units mg/Kg based on <u>Dil.</u> based on hased on | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06- | 17 16 Amount 62.5 and spike du Matrix Result 49.1275 and spike du 18 | Mat Res 49.1 plicate n Rec. 92 plicate n | rix ult 275 result. Rec Lim 75.6 - result. | Prep Rec. 86 it 117 Ana | Pared By 75 RPD 4 lyzed By pared By | r: ER Rec. Limit .6 - 117 RPD Limit 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

²⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

| Report Date: June 20, State M SWD | 2007 | | Work Ord State | M SWD | | | | ige Ni | | eye,NM |
|---|--|---|--|---|---|---|---|---|--|--|
| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limi | | RPD | RPD Limit |
| Chloride | 915 | mg/Kg | 50 | 625 | 141.128 | 80 | 75.6 - 1 | 117 | 8 | 20 |
| Percent recovery is base | ed on the spike resul | i. RPD is | based on | the spike a | nd spike du | plicate | result. | | | |
| Matrix Spike (MS-1) |) Spiked Sample: | 125586 | | | | | | | | |
| QC Batch: 38312 | | Date A | nalyzed: | 2007-06-1 | 9 | | | Anal | yzed By | : ER |
| Prep Batch: 33171 | | | eparation | | | | | | ared By | |
| - | | U. | | | | | | | | |
| Param | | MS esult | Units | Dil. | Spike Amount | | trix sult | Rec. | | Rec. Limit |
| Chloride | | | mg/Kg | 1000 | 12500 | | 40.3 | 156 | | .6 - 117 |
| Percent recovery is base | · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| | MSD | | | Spike | Matrix | | Rec | | | RPD |
| Param | Result | t Units | Dil. | Amount | Result | Rec. | Lim | | RPD | Limit |
| Chloride | ³¹ 17300 | mg/K | g 1000 | 12500 | 10840.3 | 52 | 75.6 - | 117 | 55 | 20 |
| Matrix Spike (MS-1) QC Batch: 38352 | ed on the spike resul | 126122 Date A | based on nalyzed: eparation | 2007-06-2 | 20 | plicate | result. | | yzed By ared By | |
| Matrix Spike (MS-1) QC Batch: 38352 | ed on the spike resul) Spiked Sample: | 126122 Date A QC Pr | nalyzed: | 2007-06-2 | 20 19 | | | | ared By | : ER |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 | ed on the spike resul) Spiked Sample: | 126122 Date A QC Pr MS | nalyzed: eparation | 2007-06-2 :: 2007-06-2 | 20 19 Spike | Ma | trix | Prep | ared By | : ER Rec. |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param | ed on the spike resul) Spiked Sample: R | 126122 Date A QC Pr | nalyzed: eparation Units | 2007-06-2 | 20 19 Spike Amount | Ma Re | trix sult | | ared By | : ER Rec. Limit |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride | ed on the spike resul) Spiked Sample: R | 126122 Date A QC Pr MS tesult 46.2 | unalyzed: eparation Units mg/Kg | 2007-06-2 :: 2007-06-2 Dil. 5 | 20 19 Amount 62.5 | Ma Re 2.5 | trix sult 371 | Prep Rec. | ared By | : ER Rec. Limit |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride | ed on the spike resul) Spiked Sample: R 32 ed on the spike resul | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is | unalyzed: eparation Units mg/Kg | 2007-06-2 :: 2007-06-2 Dil. 5 a the spike a | 20 19 Amount 62.5 nd spike du | Ma Re 2.5 | trix sult 371 result. | Prep Rec. 70 | ared By | : ER Rec. Limit .6 - 117 |
| Matrix Spike (MS-1 QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base | ed on the spike resul) Spiked Sample: R | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is | Units mg/Kg based on | 2007-06-2 :: 2007-06-2 Dil. 5 | 20 19 Amount 62.5 | Ma Re 2.5 | trix sult 371 | Prep Rec. 70 | ared By | : ER Rec. <u>Limit</u> .6 - 117 RPD |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param | ed on the spike resul) Spiked Sample: <u>32</u> ed on the spike resul MSD | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is | Units mg/Kg based on s Dil. | 2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike | 20 19 Amount 62.5 nd spike du Matrix | Ma Re 2.5 plicate | trix sult 371 result. Rec | Prep Rec. 70 | ared By | : ER Rec. <u>Limit</u> .6 - 117 RPD |
| • | ed on the spike resul) Spiked Sample: R 32 ed on the spike resul MSD Resul 23 45.4 | 126122 Date A QC Pr MS tesult 46.2 It. RPD is t Unit mg/K | Units mg/Kg based on s Dil. g 5 | 2007-06-2 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 | 20 19 Amount 62.5 nd spike du Matrix Result 2.5371 | Ma Re 2.5 plicate Rec. 68 | trix sult 371 result. Rec Limi 75.6 - | Prep Rec. 70 | ared By 1 75 RPD | ER Rec. Limit .6 - 117 RPD Limit |
| Matrix Spike (MS-1 QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base | ed on the spike resul) Spiked Sample: R 32 ed on the spike resul MSD Resul 23 45.4 | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is | Units mg/Kg based on s Dil. g 5 | 2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a | 20 19 <u>Spike</u> <u>Amount</u> 62.5 nd spike du Matrix <u>Result</u> 2.5371 nd spike du | Ma Re 2.5 plicate Rec. 68 | trix sult 371 result. Rec Limi 75.6 - | Prep Rec. 70 it 117 | ared By 1 75 RPD | : ER Rec. <u>Limit</u> <u>RPD</u> <u>Limit</u> 20 |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) | ed on the spike resul) Spiked Sample: R 32 ed on the spike resul MSD Resul 23 45.4 | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A | Units mg/Kg based on s Dil. g 5 based on alyzed: | 2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a 2007-05-22 ICVs | 20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du | Ma Re 2.5 plicate Rec. 68 plicate | result. 75.6 - result. Percer | Prep Rec. 70 it 117 Anal | RPD 2 vzed By | : ER Rec. Limit 6 - 117 RPD Limit 20 : MT |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 | ed on the spike resul) Spiked Sample: | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru | Units Units mg/Kg based on <u>5</u> Dil. <u>5</u> 5 based on malyzed: 's | 2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a 2007-03-23 ICVs Found | 20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du | Ma Re 2.5 plicate Rec. 68 plicate | result. 75.6 - result. Percer Recove | Prep Rec. 70 it 117 Analy nt ry | ared By 75 RPD 2 vzed By | : ER Rec. Limit 6 - 117 RPD Limit 20 : MT Date |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 Param Fi | ed on the spike resul) Spiked Sample: | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru Com | Units mg/Kg based on <u>5</u> Dil. <u>5</u> 5 based on nalyzed: ⁷ s e c. | 2007-06-2 Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-05-22 ICVs Found Conc. | 20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du ICVs Percent Recovery | Ma Re 2.5 plicate Rec. 68 plicate | result. 371 result. Rec Limi 75.6 - result. Percer Recove Limit: | Prep Rec. 70 it 117 Analy nt ry s | ared By 75 RPD 2 vzed By Ar | : ER Rec. Limit 6 - 117 RPD Limit 20 : MT |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 Param Fi Benzene | ed on the spike resul) Spiked Sample: | 126122 Date A QC Pr MS tesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru Com 0.10 | Units mg/Kg based on s Dil. g 5 based on nalyzed: 's e c. 00 | 2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a 2007-05-22 ICVs Found Conc. 0.0996 | 20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du ICVs Percent Recovery 100 | Ma Re 2.5 plicate Rec. 68 plicate | result. 371 result. 75.6 - result. Percer Recove Limit: 85 - 11 | Prep Rec. 70 it 117 Analy nt ry s 15 | ared By 75 RPD 2 vzed By Ar 200 | : ER Rec. Limit 6 - 117 RPD Limit 20 : MT Date nalyzed 7-05-25 |
| Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 Param Fi | ed on the spike resul) Spiked Sample: | 126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru Com | Units mg/Kg based on s Dil. g 5 based on nalyzed: 7s e c. 00 | 2007-06-2 Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-05-22 ICVs Found Conc. | 20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du ICVs Percent Recovery | Ma Re 2.5 plicate Rec. 68 plicate | result. 371 result. Rec Limi 75.6 - result. Percer Recove Limit: | Prep Rec. 70 | ared By 75 RPD 2 vzed By Ar 200 200 | : ER Rec. Limit 6 - 117 RPD Limit 20 : MT |

³⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ³¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ³²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ³³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ³³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| Report Date: June 20, : State M SWD | 2007 | | W | vork Orde State N | er: 7052526 4 SWD | | | Page N | umber: (Buck | 13 01 71 eve,NM |
|--|-------------------------------|---|--|---|--|--|--|--|-----------------------------------|---|
| Surrogate | MS Result | MSD Result | U | Dnits | Dil. | Spike Amount | MS Rec. | MSD Rec. |] | Rec. Limit |
| n-Triacontane | 221 | 228 | m | g/Kg | 3 | 150 | 147 | 152 | 62. | 5 - 164 |
| Matrix Spike (MS-1) | Spiked Sa | mple: 12 <u>6</u> 8 | 875 | | | | | | | |
| QC Batch: 38253 Prep Batch: 33118 | · | | | nalyzed: paration: | 2007-06-1 2007-06-1 | | | | lyzed By pared By | |
| Param | | MS Result | t | Units | Dil. | Spike Amount | Matı Resi | | .] | Rec. Limit |
| Chloride | 27 | 35.0 | 1 | mg/Kg | 5 | 62.5 | 7.11 | 62 45 | 75 | .6 - 117 |
| Percent recovery is base | d on the spike | e result. Ri | PD is l | based on | the spike a | nd spike du | plicate r | esult. | | |
| Param | | MSD Result | Timite | וירד | Spike | Matrix | Der | Rec. Limit | RPD | RPD |
| Chloride | | | Units mg/Kg | Dil. | Amount 62.5 | Result. 7.1162 | | 1000000000000000000000000000000000000 | | Limit 20 |
| Matrix Spike (MS-1) QC Batch: 38254 | | umple: 1253 D | 575 Date Ar | nalyzed: paration: | 2007-06-1 | 17 | ipiicate i | Ana | dyzed By pared By | |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 | | umple: 1255 D C MS | 575)ate Ar }C Prej | nalyzed: paration: | 2007-06-1 2007-06-1 | 17 16 Spike | Matu | Ana Pre | pared By | r: ER Rec. |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param | | umple: 1255 D C MS Result. | 575)ate Ar)C Prej 1 | nalyzed: paration: Units | 2007-06-1 2007-06-1 Dil. | 17 16 Spike Amount | Matı Resu | Ana Pre rix dt Rec | pared By | r: ER Rec. Limit |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride |) Spiked Sa | ample: 1255 D C MS Result 103 | 575 Date Ar QC Prej I | nalyzed: paration: Units ng/Kg | 2007-06- 2007-06- Dil. 5 | 17 16 Spike Amount 62.5 | Matr Resu 49.12 | Ana Pre rix alt Rec 275 86 | pared By | r: ER Rec. Limit |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride |) Spiked Sa | ample: 1255 D Q MS Result 103 e result. R | 575 Date Ar QC Prej I | nalyzed: paration: Units ng/Kg | 2007-06- 2007-06- Dil. 5 the spike a | 17 16 Amount 62.5 nd spike du | Matr Resu 49.12 | Ana Pre rix 11 Rec 275 86 esult. | pared By | r: ER Rec. Limit .6 - 117 |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base |) Spiked Sa | ample: 1255 D Q MS Result 103 e result. R MSD | 575 Date Ar QC Prej I m PD is 1 | nalyzed: paration: Units ag/Kg based on | 2007-06- 2007-06- Dil. 5 the spike a Spike | 17 16 Amount 62.5 nd spike du Matrix | Mata Resu 49.12 uplicate r | Ana Pre rix 11 Rec 275 86 esult. Rec. | pared By 75 | Rec. Limit .6 - 117 RPD |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param |) Spiked Sa | MS Result 103 e result. R MSD Result | 575 Date Ar QC Prej I | nalyzed: paration: Units ng/Kg | 2007-06- 2007-06- Dil. 5 the spike a | 17 16 Amount 62.5 nd spike du | Matr Resu 49.12 | Ana Pre rix 11 Rec 275 86 esult. | pared By | Rec. Limit .6 - 117 RPD |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param Chloride Percent recovery is base |) Spiked Sa ed on the spik | MS Result. MS Result. 103 e result. MSD Result 107 m | 575 Date Ar 2C Prej D is 1 PD is 1 Units ng/Kg PD is 1 | nalyzed: paration: Units ng/Kg based on Dil. E | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 | 17 16 Amount 62.5 nd spike du Matrix Result 49.1275 | Matu Resu 49.12 iplicate r Rec. 92 | Ana Pre lt Rec 275 86 esult. Rec. Limit 75.6 - 117 | pared By | Rec. Limit .6 - 117 RPD Limit |
| • |) Spiked Sa ed on the spik | MS Result 103 e result. R MSD Result 107 n e result. R ample: 1253 | 575 Date Ar 2C Prej PD is 1 Units ng/Kg PD is 1 576 Date Ar | nalyzed: paration: Units ng/Kg based on Dil. E | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06- | 17 16 Amount 62.5 nd spike du Matrix Result 49.1275 nd spike du | Matu Resu 49.12 iplicate r Rec. 92 | Ana Pre rix alt Rec 275 86 esult. Rec. Limit 75.6 - 117 esult. Ana | pared By | r: ER Rec. Limit .6 - 117 RPD Limit 20 |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Matrix Spike (MS-1) QC Batch: 38310 Prep Batch: 33169 |) Spiked Sa ed on the spik | MS Result 103 e result. R MSD Result 107 m e result. R ample: 1253 L MS | 575 Date Ar QC Prej PD is 1 Units ng/Kg PD is 1 576 Date Ar QC Pre | nalyzed: paration: Units ng/Kg based on Dil. E based on nalyzed: paration: | 2007-06- 2007-06- 5 the spike a Spike Amount 62.5 the spike a 2007-06- 2007-06- | 17 16 Amount 62.5 nd spike du Matrix Result 49.1275 nd spike du 18 18 | Matu Resu 49.12 uplicate r Rec. 92 uplicate r Mat | Ana Pre rix alt Rec 275 86 esult. Rec. Limit 75.6 - 117 result. Ana Pre | RPD 4 alyzed By pared By | r: ER Rec. Limit <u>(6 - 117</u> <u>RPD</u> Limit <u>20</u> r: ER r: ER Rec. |
| Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Matrix Spike (MS-1) QC Batch: 38310 |) Spiked Sa ed on the spik | MS Result 103 e result. R MSD Result 107 m e result. R ample: 1253 | 575 Date Ar QC Prej PD is 1 Units ng/Kg PD is 1 576 Date Ar QC Pre t | nalyzed: paration: Units ag/Kg based on Dil. 2 based on based on | 2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06- | 17 16 Spike Amount 62.5 nd spike du Matrix Result 49.1275 nd spike du 18 | Matu Resu 49.12 iplicate r Rec. 92 iplicate r | Ana Pre rix alt Rec 275 86 esult. Rec. Limit 75.6 - 117 result. Ana Pre rix ult Rec | RPD 4 alyzed By pared By | r: ER Rec. Limit .6 - 117 RPD Limit 20 |

²⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

| State M SWD | ne 20, 2001 | 7 | | k Order: 70525: State M SWD | 26 | Page Nu | mber: 65 of 7 Buckeye,NN |
|--|----------------------------------|---|---|--|--|--|---|
| standard continue | ed | | | | | | |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Xylene | | mg/Kg | 0.300 | 0.293 | 98 | 85 - 115 | 2007-05-23 |
| Standard (CCV | /-1) | | | | | • | |
| QC Batch: 3754 | 11 | | Date Analy | zed: 2007-05-2 | 25 | Analy | vzed By: MT |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Benzene | <u> </u> | mg/Kg | 0.100 | 0.0984 | 98 | 85 - 115 | 2007-05-2 |
| Toluene | | mg/Kg | 0.100 | 0.0970 | 97 | 85 - 115 | 2007-05-2 |
| Ethylbenzene | | mg/Kg | 0.100 | 0.0944 | 94 | 85 - 115 | 2007-05-2 |
| Xvlene | | mg/Kg | 0.300 | 0.282 | 94 | 85 - 115 | 2007-05-2 |
| Standard (ICV | -1) | | | | | | |
| QC Batch: 3754 | 13 | | Date Analy | zed: 2007-05-: | 25 | Analy | vzed By: MT |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param F | lag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | mg/Kg | 1.00 | 0.886 | 89 | 85 - 115 | 2007-05-2 |
| Standard (CCV | V-1) | | | | | | |
| QC Batch: 3754 | 19 | | Date Analy | zed: 2007-05- | 25 | Analy | yzed By: MT |
| QC Daton. 5/04 | £9 | | | CCVs | CCVs | Percent | |
| GC Daton. 3734 | τð | | CCVs | | 0010 | | |
| | ŧð | | CCVs True | Found | Percent | Recovery | Date |
| | lag | Units | • · | Found Conc. | | Recovery Limits | |
| Param F | | Units mg/Kg | True | | Percent | • | Analyzed |
| Param F GRO | lag | | True Conc. | Conc. | Percent Recovery | Limits | Date Analyzed 2007-05-2 |
| | lag | | True Conc. | Conc. 0.901 | Percent Recovery 90 | Limits 85 - 115 | Analyzed |
| Param F GRO Standard (ICV | lag | | True Conc. 1.00 Date Analy ICVs | Conc. 0.901 vzed: 2007-05- ICVs | Percent Recovery 90 25 ICVs | Limits 85 - 115 Analy Percent | Analyzed 2007-05-2 yzed By: MT |
| Param F GRO Standard (ICV QC Batch: 3754 | lag -1) 16 | mg/Kg | True Conc. 1.00 Date Analy ICVs True | Conc. 0.901 vzed: 2007-05- ICVs Found | Percent Recovery 90 25 ICVs Percent | Limits 85 - 115 Analy Percent Recovery | Analyzed 2007-05-2 yzed By: MT Date |
| Param F GRO Standard (ICV QC Batch: 3754 Param | lag | mg/Kg Units | True Conc. 1.00 Date Analy ICVs True Conc. | Conc. 0.901 vzed: 2007-05- ICVs Found Conc. | Percent Recovery 90 25 ICVs Percent Recovery | Limits 85 - 115 Analy Percent Recovery Limits | Analyzed 2007-05-2 yzed By: MT Date Analyzed |
| Param F GRO Standard (ICV QC Batch: 3754 Param Benzene | lag -1) 16 | mg/Kg Units mg/Kg | True Conc. 1.00 Date Analy ICVs True Conc. 0.100 | Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 | Percent Recovery 90 25 25 ICVs Percent Recovery 99 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 | Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 |
| Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene | lag -1) 16 | Units mg/Kg mg/Kg | True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 | Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994 | Percent Recovery 90 25 25 ICVs Percent Recovery 99 99 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 | Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 |
| Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene Ethylbenzene | lag -1) 16 | Units mg/Kg mg/Kg mg/Kg mg/Kg | True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 | Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994 0.0959 | Percent Recovery 90 25 25 ICVs Percent Recovery 99 99 99 96 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 | Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 2007-05-2 |
| Param F GRO Standard (ICV | lag -1) 16 | Units mg/Kg mg/Kg | True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 | Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994 | Percent Recovery 90 25 25 ICVs Percent Recovery 99 99 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 | Analyzed 2007-05-2 yzed By: MT |
| Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene Ethylbenzene | lag -1) 16 Flag | Units mg/Kg mg/Kg mg/Kg mg/Kg | True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 | Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994 0.0959 | Percent Recovery 90 25 25 ICVs Percent Recovery 99 99 99 96 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 | Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 2007-05-2 |
| Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene Ethylbenzene Xylene | lag -1) 16 Flag V-1) | Units mg/Kg mg/Kg mg/Kg mg/Kg | True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 | Conc. 0.901 vzed: 2007-05- ICV's Found Conc. 0.0992 0.0994 0.0959 0.286 | Percent Recovery 90 25 ICVs Percent Recovery 99 99 99 95 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 | Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 2007-05-2 |

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| Report Date: Jun State M SWD | e 20, 200 | 7 | | k Order: 70525 State M SWD | .26 | Page N | umber: 66 of 71 Buckeye,NM |
|--|------------------------|--|---|---|--|--|--|
| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Benzene | | mg/Kg | 0.100 | 0.0988 | 99 | 85 - 115 | 2007-05-25 |
| Toluene | | mg/Kg | 0.100 | 0.0974 | 97 | 85 - 115 | 2007-05-25 2007-05-25 |
| Ethylbenzene Xylene | | mg/Kg Mg/Kg | 0.100 0.300 | 0.0923 0.281 | 92 94 | 85 - 115 85 - 115 | 2007-05-25 |
| Standard (ICV- | 1) | | | | | | |
| QC Batch: 37547 | - | | Date Analy | zed: 2007-05- | 25 | Anal | yzed By: MT |
| | | | lCVs | ICVs | ICVs | Percent | |
| - | | | True | Found | Percent | Recovery | Date |
| Param Fla | ug | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | mg/Kg | 1.00 | 0.875 | 88 | 85 - 115 | 2007-05-25 |
| Standard (CCV- | -1) | | | | | | |
| QC Batch: 37547 | 7 | | Date Analy | zed: 2007-05- | 25 | Anal | vzed By: MT |
| | | | CCVs | CCVs | CCVs | Percent | D . |
| | | | m | | | | |
| Duran El | | Tinite | True | Found | Percent | Recovery | Date |
| | rg | Units mg/Kg | True Conc. 1.00 | Found Conc. 0.939 | Percent Recovery 94 | Recovery Limits 85 - 115 | Date Analyzed 2007-05-25 |
| Param Fla GRO Standard (ICV- QC Batch: 37548 | 1) | | Conc. | Conc. 0.939 | Recovery 94 | Limits 85 - 115 | Analyzed |
| GRO Standard (ICV- | 1) | | Conc. 1.00 | Conc. 0.939 | Recovery 94 | Limits 85 - 115 | Analyzed 2007-05-25 |
| GRO Standard (ICV- | 1) | | Conc. 1.00 Date Analy | Conc. 0.939 rzed: 2007-05- | Recovery 94 25 | Limits 85 - 115 Anal | Analyzed 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 | 1) | mg/Kg Units | Conc. 1.00 Date Analy ICVs True Conc. | Conc. 0.939 rzed: 2007-05- ICVs | Recovery 94 25 ICVs | Limits 85 - 115 Anal Percent | Analyzed 2007-05-2; vzed By: MT Date Analyzed |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene | 1) | mg/Kg Units mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 | Recovery 94 25 ICVs Percent Recovery 95 | Limits 85 - 115 Anal: Percent Recovery Limits 85 - 115 | Analyzed 2007-05-25 yzed By: MT Date Analyzed 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene | 1) | units mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 | Recovery 94 25 ICVs Percent Recovery 95 94 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 | Analyzed 2007-05-23 vzed By: MT Date Analyzed 2007-05-23 2007-05-23 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene | 1) | Units mg/Kg mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 | Recovery 94 25 25 Percent Recovery 95 94 90 | Limits <u>85 - 115</u> Analy Percent Recovery Limits <u>85 - 115</u> <u>85 - 115</u> <u>85 - 115</u> <u>85 - 115</u> | Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 |
| GRO Standard (ICV- | 1) Flag | units mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 | Recovery 94 25 ICVs Percent Recovery 95 94 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 | Analyzed 2007-05-25 vzed By: MT Date |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- | 1) 5 Flag -1) | Units mg/Kg mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 | Recovery 94 25 ICVs Percent Recovery 95 94 90 90 | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 | Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene | 1) 5 Flag -1) | Units mg/Kg mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0945 0.0896 0.270 rzed: 2007-05- CCVs | Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 | Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- QC Batch: 37548 | 1) 5 Flag -1) | Units mg/Kg mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True | Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 rzed: 2007-05- CCVs Found | Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 | Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- QC Batch: 37548 Param | 1) 5 Flag -1) | Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True Conc. | Conc. 0.939 Zed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 Zed: 2007-05- CCVs Found COVs Found Conc. | Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent Recovery | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 15 - 15 85 - 15 - | Analyzed 2007-05-25 yzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- | 1) 5 Flag -1) | Units mg/Kg mg/Kg mg/Kg mg/Kg Mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True Conc. 0.100 0.300 | Conc. 0.939 7zed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0945 0.0896 0.270 7zed: 2007-05- CCVs Found Conc. 0.0966 | Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent Recovery 97 | Limits 85 - 115 Anal; Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Anal; Percent Recovery Limits 85 - 115 | Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 |
| GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- QC Batch: 37548 Param Benzene | 1) 5 Flag -1) | Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg | Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True Conc. | Conc. 0.939 Zed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 Zed: 2007-05- CCVs Found COVs Found Conc. | Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent Recovery | Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 15 - 15 85 - 15 - | Analyzed 2007-05-25 yzed By: MT Date Analyzed 2007-05-25 2007-05-2 |

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| Report Dat State M SV | te: June 20, 20 WD | 007 | | ork Order: 7052 State M SWD | | Page N | umber: 67 of 7 Buckeye,NN |
|--------------------------|-----------------------|---------|----------|--------------------------------|----------------|--------------------|------------------------------|
| Standard | (ICV-1) | | | | | | |
| QC Batch: | 37549 | | Date Ana | dyzed: 2007-03 | 5-25 | Anal | vzed By: MT |
| | | | ICVs | ICVs | ICVs | Percent | T |
| Param | Flue | Units | True | Found | Percent | Recovery | Date |
| GRO | Flag | mg/Kg | <u> </u> | <u> </u> | Recovery 92 | Limits 85 - 115 | Analyzed 2007-05-2 |
| <u> </u> | | ing/11g | 1.00 | 0.922 | | 00-110 | 2001-00-20 |
| Standard | (CCV-1) | | | | | | |
| QC Batch: | 37549 | | Date Ana | dyzed: 2007-0 | 5-25 | Anal | yzed By: MT |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | mg/Kg | 1.00 | 1.02 | 102 | 85 - 115 | 2007-05-2 |
| Standard QC Batch: | | | Date Ana | alyzed: 2007-0 | 5-26 | Anal | yzed By: TG |
| | | | ICVs | ICVs | ICVs | Percent | |
| - | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzec |
| DRO | | mg/Kg | 250 | 212 | 85 | 85 - 115 | 2007-05-2 |
| Standard | (CCV-1) | | | | | | |
| QC Batch: | 37553 | | Date Ana | alyzed: 2007-0 | 5-26 | Anal | yzed By: TG |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | Irue | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| DRO | | mg/Kg | 250 | 222 | 89 | 85 - 115 | 2007-05-2 |
| Standard | (CCV-2) | | | | | | |
| QC Batch: | | | Date An | alyzed: 2007-0 | 5-26 | Ana | lyzed By: TG |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| | | | | Conc. | Recovery | Limits | Analyzed |
| Param | Flag | Units | Conc. | Conc. | | 1/111103 | Analyzet |

QC Batch: 37554

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Date Analyzed: 2007-05-26

Analyzed By: TG

| Report Dat State M SW | e: June 20, 20 VD | | | k Order: 70525 State M SWD | 26 | Page Nu | mber: 68 of 71 Buckeye,NM |
|--|---|--|---|--|---|---|---|
| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | | mg/Kg | 250 | 214 | 80 | 85 - 115 | 2007-05-26 |
| Standard (| (CCV-1) | | | | | | |
| QC Batch: | . , | | Date Anal | yzed: 2007-05- | 26 | Anal | yzed By: TG |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Dare |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| DRO | | mg/Kg | 250 | 219 | 88 | 85 - 115 | 2007-05-26 |
| 04 a.u. d.a.u. d. u | | | | | | | |
| Standard (QC Batch: | . , | | Date Anal | yzed: 2007-05- | -26 | Anal | yzed By: TG |
| · | | | | - | | | , - . - . |
| | | | CCVs | CCVs | CCVs | Percent | _ |
| - | ~ | ** . | Irue | Found | Percent | Recovery | Date |
| Unwown | Flag | Units | Conc. | Conc. | Recovery 85 | Limits 85 - 115 | Analyzed 2007-05-20 |
| | | mg/Kg | 250 | 212 | | | |
| Param DRO Standard | | mg/Kg | 230 | 212 | | | |
| DRO Standard | (ICV-1) | mg/Kg | | yzed: 2007-05 | | Anal | yzed By: TG |
| DRO Standard | (ICV-1) | mg/Kg | Date Anal | yzed: 2007-05 | -26 | | |
| DRO Standard | (ICV-1) | mg/Kg | | | | Anal Percent Recovery | |
| DRO Standard QC Batch: | (ICV-1) | mg/Kg | Date Anal ICVs | yzed: 2007-05 ICVs | -26 ICVs | Percent | yzed By: TG |
| DRO Standard QC Batch: Param | (ICV-1) 37555 | | Date Anal ICVs True | yzed: 2007-03 ICVs Found | -26 ICVs Percent | Percent Recovery | yzed By: TG Date Analyzed |
| DRO | (ICV-1) 37555 Flag | Units | Date Anal ICVs True Conc. | yzed: 2007-05 ICVs Found Conc. | -26 ICVs Percent Recovery | Percent Recovery Limits | yzed By: TG Date |
| DRO Standard QC Batch: Param DRO Standard | (ICV-1) 37555 Flag (CCV-1) | Units | Date Anal ICVs True Conc. | yzed: 2007-05 ICVs Found Conc. 250 | -26 ICVs Percent Recovery 100 | Percent Recovery Limits 85 - 115 | yzed By: TG Date Analyzed |
| DRO Standard QC Batch: Param DRO Standard | (ICV-1) 37555 Flag (CCV-1) | Units | Date Anal ICVs True Conc. 250 Date Anal CCVs | yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs | -26 ICVs Percent Recovery 100 -26 CCVs | Percent Recovery Limits 85 - 115 Anal Percent | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG |
| DRO Standard QC Batch: Param DRO Standard QC Batch: | (ICV-1) 37555 Flag (CCV-1) 37555 | Units mg/Kg | Date Anal ICVs True Conc. 250 Date Anal CCVs True | yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs Found | -26 ICVs Percent Recovery 100 -26 CCVs Percent | Percent Recovery Limits 85 - 115 Anal Percent Recovery | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param | (ICV-1) 37555 Flag (CCV-1) | Units mg/Kg Units | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. | yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs Found Conc. | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO | (ICV-1) 37555 Flag (CCV-1) 37555 Flag | Units mg/Kg | Date Anal ICVs True Conc. 250 Date Anal CCVs True | yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs Found | -26 ICVs Percent Recovery 100 -26 CCVs Percent | Percent Recovery Limits 85 - 115 Anal Percent Recovery | yzed By: TG Date Analyzed 2007-05-26 yzed By: TG Date |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) | Units mg/Kg Units | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) | Units mg/Kg Units | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed |
| DRO Standard QC Batch: Param DRO | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) | Units mg/Kg Units | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent | yzed By: TG Date Analyzed 2007-05-26 yzed By: TG Date Analyzed 2007-05-26 yzed By: KB |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) 37618 | Units mg/Kg Units mg/Kg | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery. | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: Param | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) | Units mg/Kg Units mg/Kg g Units | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True Conc. | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found COVs Found Conc. | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent Recovery | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date Analyzed |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: Param Benzene | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) 37618 | Units mg/Kg Units mg/Kg g Units mg/Kg | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True Conc. 0.100 | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found Conc. 0.0936 | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent Recovery 94 | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date Analyzed 2007-05-25 |
| DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: Param | (ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) 37618 Fla | Units mg/Kg Units mg/Kg g Units | Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True Conc. | yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found COVs Found Conc. | -26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent Recovery | Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits | yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date Analyzed |

| Report Dat State M SW | e: June 20, 200 VD | J7 | | k Order: 70525 State M SWD | 26 | Page Nu | umber: 69 of 71 Buckeye,NM |
|--------------------------|-----------------------|-------|------------|-------------------------------|----------|---------------------|-------------------------------|
| standard cor | ntinued | | | | | | |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | Irue | Found | Percent | Recovery' | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Xylene | | mg/Kg | 0.300 | 0.265 | 88 | 85 - 115 | 2007-05-29 |
| Standard (| (CCV-1) | | | | | | |
| QC Batch: | 37618 | | Date Analy | yzed: 2007-05- | -29 | Anal | yzed By: KB |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Benzene | | mg/Kg | 0.100 | 0.0927 | 93 | 85 - 115 | 2007-05-29 |
| Toluene | | mg/Kg | 0.100 | 0.0902 | 90 | 85 - 115 | 2007-05-29 |
| Ethylbenzer | ie. | mg/Kg | 0.100 | 0.0875 | 88 | 85 - 115 | 2007-05-29 |
| Xylene | | mg/Kg | 0.300 | 0.264 | 88 | 85 - 115 | 2007-05-29 |
| Standard (QC Batch: | ` ' | | Date Anal | yzed: 2007-05- | -29 | Anal | yzed By: KB |
| | | | ICVs | | ICVs | Davaand | |
| | | | True | ICVs Found | Percent | Percent Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | 1 1005 | mg/Kg | 1.00 | 0.890 | 89 | 85 - 115 | 2007-05-2 |
| Standard (| (CCV-1) | | | | | | |
| QC Batch: | 37619 | | Date Anal | yzed: 2007-05 | -29 | Anal | yzed By: KB |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| GRO | | mg/Kg | 1.00 | 1.09 | 109 | 85 - 115 | 2007-05-2 |
| Standard (| (CCV-1) | | | | | | |
| QC Batch: | 37678 | | Date Anal | vzed: 2007-05 | -30 | Anal | yzed By: TG |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| DRO | | mg/Kg | 250 | 274 | 110 | 85 - 115 | 2007-05-3 |
| Standard (| (CCV-2) | | | | | | |
| | | | | | | | |

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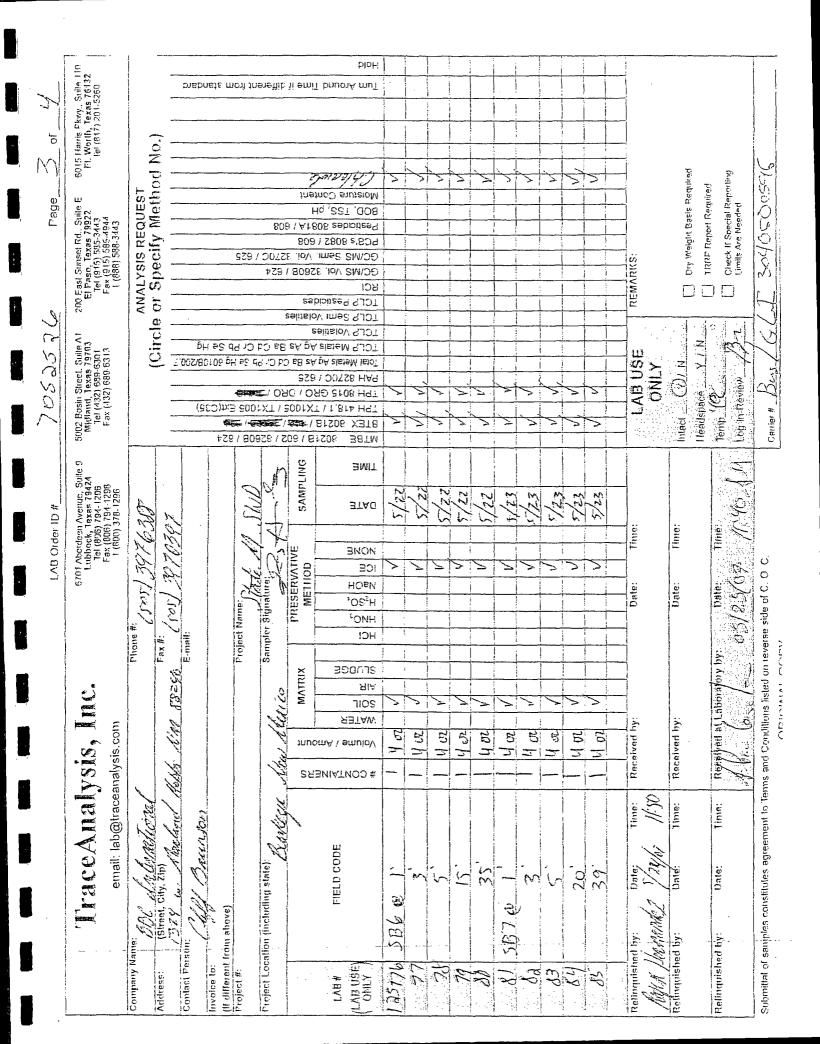
1.4.1

| Report Dat State M SV | e: June 20, 20 VD | 007 | Wo | ork Order: 7052 State M SWD | 526 | Page Ni | mber: 70 of 71 Buckeye,NM |
|--------------------------|----------------------|----------------|-----------------------|--------------------------------|-----------------------------|-------------------------------|------------------------------|
| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | | mg/Kg | 250 | 248 | 99 | 85 - 115 | 2007-05-30 |
| Standard | (ICV-1) | | | | | | |
| QC Batch: | 38253 | | Date Ana | lyzed: 2007-00 | -16 | Anal | yzed By: ER |
| | | | ICVs True | ICVs Found | ICVs Percent | Percent Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Chloride | | mg/Kg | 12.5 | 13.1 | 105 | 90 - 110 | 2007-06-10 |
| Standard | (CCV-1) | | | | | | |
| QC Batch: | 38253 | | Date Ana | lyzed: 2007-06 | 5-16 | Anal | yzed By: ER |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Chloride | | mg/Kg | 12.5 | 13.1 | 105 | 90 - 110 | 2007-06-10 |
| Standard | (ICV-1) | | | | | | |
| QC Batch: | 38254 | | Date Ana | dyzed: 2007-06 | 6-17 | Anal | yzed By: ER |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Chloride | | mg/Kg | 12.5 | 13.1 | 105 | 90 - 110 | 2007-06-17 |
| Standard | (CCV-1) | | | | | | |
| QC Batch: | 38254 | | Date Ana | dyzed: 2007-00 | 3-17 | Anal | yzed By: ER |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Chloride | | mg/Kg | 12.5 | 13.0 | 104 | 90 - 110 | 2007-06-17 |
| Standard | (ICV-1) | | | | | | |
| QC Batch: | 38310 | | Date Ana | lyzed: 2007-0 | 3-18 | Ana | yzed By: ER |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| - | | | | | | | |
| Param Chloride | Flag | Units mg/Kg | <u>Conc.</u> 12.5 | <u> </u> | Recovery 103 | Limits 90 - 110 | Analyzed 2007-06-18 |

| Report Date: State M SWI | | | Wo | rk Order: 7052 State M SWD | 526 | Page Ni | umber: 71 of ' Buckeye.N |
|--|---|----------------|--|--|--|---|---|
| Standard (C | CCV-1) | | | | | | |
| QC Batch: | 38310 | | Date Anal | yzed: 2007-06 | -18 | Anal | yzed By: ER |
| | | | CCVs | CCVs | CCVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Chloride | | mg/Kg | 12.5 | 12.9 | 103 | 90 - 110 | 2007-06-1 |
| Standard (I | CV-1) | | | | | | |
| QC Batch: | 38312 | | Date Anal | yzed: 2007-06 | 5-19 | Anal | yzed By: ER |
| | | | ICVs | ICVs | ICVs | Percent | |
| | | | True | Found | Percent | Recovery | Date |
| Param | Flag | Units | Conc. | Conc. | Recovery | Limits | Analyzed |
| Chloride | 0 | mg/Kg | 12.5 | 12.9 | 103 | 90 - 110 | 2007-06-1 |
| Standard (C QC Batch: | • | | | lyzed: 2007-06 | | | vzed By: EF |
| | • | | Date Ana CCVs True | lyzed: 2007-06 CCVs Found |)-19 CCVs Percent | Anal Percent Recovery | yzed By: EF Date |
| QC Batch: | • | Units | CCVs | CCVs | CCVs | Percent | Date |
| QC Batch: | 38312 | Units mg/Kg | CCVs True | CCVs Found | CCVs Percent | Percent Recovery | Date Analyzed |
| QC Batch: Param Chloride | 38312 Flag | | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| QC Batch: | 38312 Flag CV-1) | | CCVs True Conc. | CCVs Found Conc. 24.0 | CCVs Percent Recovery 96 | Percent Recovery Limits 90 - 110 | Date Analyzed 2007-06-1 |
| QC Batch: Param Chloride Standard (J | 38312 Flag CV-1) | | CCVs True Conc. 25.0 | CCVs Found Conc. 24.0 | CCVs Percent Recovery 96 | Percent Recovery Limits 90 - 110 | Date Analyzed 2007-06-1 |
| QC Batch: Param Chloride Standard (J | 38312 Flag CV-1) 38352 | | CCVs True Conc. 25.0 Date Ana | CCVs Found Conc. 24.0 | CCVs Percent <u>Recovery</u> 96 | Percent Recovery Limits 90 - 110 Anal | Date Analyzed 2007-06-1 |
| QC Batch: Param Chloride Standard (I QC Batch: Param | 38312 Flag CV-1) | mg/Kg Units | CCVs True Conc. 25.0 Date Ana ICVs True Conc. | CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc. | CCVs Percent <u>Recovery</u> 96 -20 ICVs | Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits | Date Analyzed 2007-06-1 Lyzed By: ER Date Analyzed |
| QC Batch: Param Chloride Standard (I QC Batch: | 38312 Flag CV-1) 38352 | mg/Kg | CCVs True <u>Conc.</u> 25.0 Date Ana ICVs True | CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found | CCVs Percent Recovery 96 3-20 ICVs Percent | Percent Recovery Limits 90 - 110 Anal Percent Recovery | Date Analyzed 2007-06-1 Lyzed By: ER Date Analyzed |
| QC Batch: Param Chloride Standard (I QC Batch: Param | 38312 Flag CV-1) 38352 Flag | mg/Kg Units | CCVs True Conc. 25.0 Date Ana ICVs True Conc. | CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc. | CCVs Percent Recovery 96 3-20 ICVs Percent Recovery | Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits | Date Analyzed 2007-06-1 Lyzed By: ER Date Analyzed |
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| | 5000 | Check If Special Reporting Limits Are Needed | Dry Weight Basis Required TRRP Report Required | | | | | | | | | | | | | | PCB's 8082 / Pesticides 80 BOD, TSS, p | 81A / H | 608 | | | | | REQUEST fy Method | 200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 588-4944 1 (888) 588-3443 | Page |
| | Doscil | eporting | Required lired | | | | < | 3 | - | • | | | • 5 | < | < | K | Moisture Cor | | | | | | | bd | | \mathbb{W} |
| | | | | | | | | | | | | | | | | | | | | | | | · | No.) | Harris Pky North, Te el (817) 2 | |
| | | | | | | | | | | | | | | | | | Turn Around | Time | if diffe | rent f | rom st | landar | d | | 6015 Harris Pkwy. Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260 | 4 |
| | | | | | | | | | | | | | | | | | Hold | | | | | | | | 6 | |

| Submittal of samples constitutes ag | Relinquished by: Date: | Relínquished by: Daté: | Relinquished by: Date: March Leamarch 2 /24/62 | | | | 90 39 | 89 20' | ر اح | 2 . 28 | 1,25184 588 @ 1 | LAB # FIELD CODE | | Project Location (including state): | Project #: | Invoice to: // (If different from above) | rson: | 24 W | Name: BBC | TraceA email: lab | |
|--|----------------------------|---------------------------|---|---|--|--|-------|----------|----------|----------|-----------------|--|--|-------------------------------------|-----------------------------------|---|-------------|----------|-------------------|---|------------------|
| agreement to Term | Time: | Time: | Time: | | | | | - | | - | - | m | ſ | Sur keye | | | , Iunson | relaac | nalional | Analy lab@traces | |
| rms and Conditions liste | Received at Laboratory/by: | Received by: | Received by: | | | | | 1 4 02 V | 1 4 02 V | 1 4 az V | 1 4 02 1 | # CONTAINE Volume / Amc WATER SOIL AIR | ount | May Marico | | | | | | email: lab@traceanalysis.com | - |
| agreement to Terms and Conditions listed on reverse side of C. O. C. | "Date: | Date: | Date: | _ | | | | | ~ | < | | HCI HNO ₃ H ₂ SO ₄ NaOH ICE NONE | MATRIX PRESERVATIVE | Sampler Signature: | Project Name | | | [ses] 39 | Phone #: (Sos) | 6701 Abe Lubb Tel Fax 1 | LAB O |
| | | Time: | Lime: | | | | 5/23 | 5/23 | 5/23 | 5/23 | 5/23 | DATE | SAMPLING | | 1. SWD | | | 70397 | 8859 21 | 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 | LAB Order ID # 7 |
| carrier # Dcy SCT | Log-in-Review | Intact VIN | ONLY | | | | V V | | V, V | V. V. | v | MTBE 8021 BTEX 8021B TPH 418.1 / T TPH 8015 GF PAH 8270C / Total Metals Ag TCLP Metals TCLP Volatile | 7 (10) 7X10 RO / 1 625 As Ba Ag A | D5 / T) DRO /- a Cd Cr | 200 / 1 (1005 2005 Pb Se | Ext(C |)10B/2(| 00.7 | (Circle | 5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 | 252526 |
| 10cm276 | | Dry Weight Basis Required | κειμάτου | | | | | | | | | TCLP Semi V TCLP Pestici RCI GC/MS Vol. & GC/MS Semi PCB's 8082 / Pesticides 80 BOD, TSS, p Moisture Con | des 3260E . Vol. 608 81A / | 3 / 624 82700 | | 5 | | ; | ANALYSIS REQUEST | 200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 | Page |
| | orting | quired ed | | | | | | | • | | | CH Lett | ud | | erent f | rom si | tanda | rd | r od No.) | 6015 Harris Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260 | 1/ of 4 |

APPENDIX III

1. 2 × 1.2

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14. 14. 14.

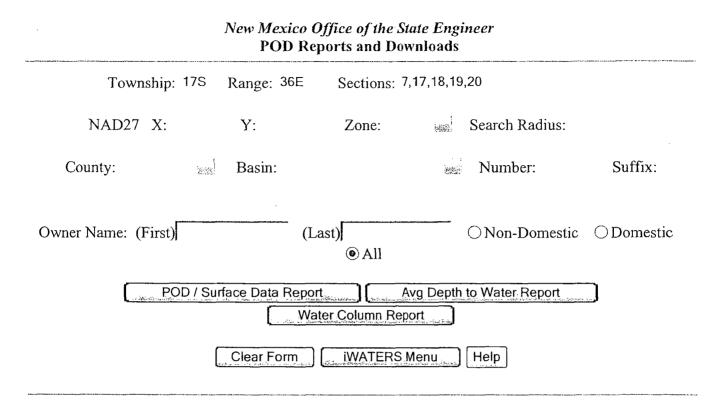
INVENTORY OF WATER WELLS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

> Prepared by: BBC International, Inc.



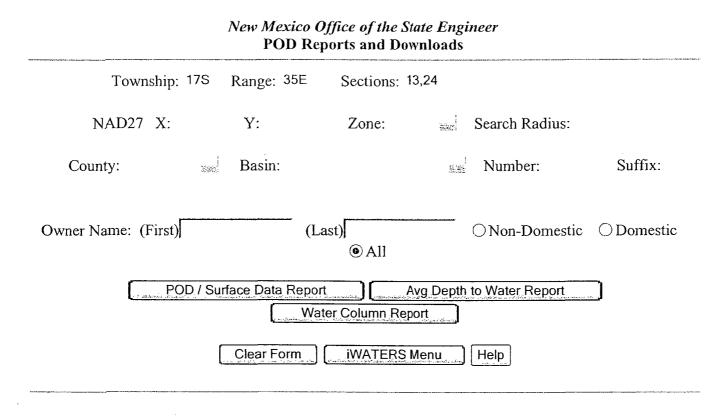
WATER COLUMN REPORT 07/25/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)

| ((| quarter | s are b | igg | est | to: | smallest) | | | Depth | Depth | Wate |
|---------------|---------|---------|-----|-----|-----|-----------|---|---|-------|-------|-------|
| POD Number | Tws | Rng Se | c q | đ | đ | Zone | х | Y | Well | Water | Colum |
| L 04602 | 17s | 36E 17 | 3 | 4 | 2 | | | | 115 | 45 | 7 |
| L 04602 APPRO | 17s | 36E 17 | 4 | 3 | 2 | | | | 115 | 45 | 5 |
| L 04171 APPRO | 17s | 36E 18 | 1 | 4 | | | | | 128 | 128 | |
| L 04171 | 17s | 36E 18 | 1 | 4 | | | | | 128 | 128 | |
| L_05407 | 17s | 36E 19 | 1 | 4 | | | | | 108 | 49 | Ę |
| L 10681 | 17S | 36E 19 | 4 | 1 | | | | | 120 | 40 | 5 |
| L 05361 | 17s | 36E 20 | | | | | | | 123 | 90 | Э |
| L 09342 | 17s | 36E 20 | | | | | | | 138 | 60 | 5 |
| L 04599 APPRO | 17S | 36E 20 | 1 | 2 | | | | | 128 | 38 | 5 |
| L 04599 | 17s | 36E 20 | 1 | 2 | | | | | 128 | 38 | ç |
| L 05181 | 17s | 36E 20 | 1 | 4 | | | | | 125 | 75 | Ę |
| L 04549 | 17s | 36E 20 | 2 | 1 | | | | | 121 | 48 | 5 |
| L 04549 APPRO | 17s | 36E 20 | 2 | 1 | | | | | 121 | 48 | 7 |
| L 07862 | 17s | 36E 20 | 3 | 4 | | | | | 110 | 58 | Ĕ |

Record Count: 14

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher



WATER COLUMN REPORT 07/25/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)

| (qu | arter | s are D | biggest to | smallest |) | | Depth | Depth | Wat€ |
|---------------|-------|---------|------------|----------|---|---|-------|-------|-------|
| POD Number | Tws | Rng S | sc d d d | Zone | х | Y | Well | Water | Colum |
| L 04503 APPRO | 17S | 35E 2- | 42 | | | | 90 | 43 | Ļ |
| L 04503 | 17S | 35E 2- | 42 | | | | 90 | 43 | Ļ |

Record Count: 2

APPENDIX IV

5. a. č

1. 2° - 4° - 4

1 1 A

N. 6 W.

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1. S.

1. 2. 1. V. V.

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DRILLING LOGS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

> Prepared by: BBC International, Inc.

| NEW | MEXICO | OFFICE | \mathbf{OF} | THE | STATE | ENGINEER |
|-----|--------|--------|---------------|-------|-------|----------|
| | | WEL | L RI | ECORI |) | |

| 1.OWN | ER OF WELL | |
|-------|---|---|
| | Name: Chesapeake Operating | Work Phone: |
| | Contact: | Home Phone: |
| | Address: P.O. Box 190 | - |
| | City: Hobbs | State: <u>NM</u> _ Zip: <u>88241</u> |
| | CATION OF WELL(A,B,C,or D required,E or F if know | |
| Α. | 1/41/41/4 Section: 18 Town | |
| | in Lea | County. |
| в. | X =feet, Y = Zone in the | feet, N.M. Coordinate System Grant. |
| | U.S.G.S. Quad Map | |
| c. | Latitude: <u>32</u> d <u>49</u> m <u>40.7</u> s Longitud | e: <u>103</u> d <u>23</u> m <u>28.3</u> s |
| D. | East (m), North (m), UTM | Zone 13, NAD (27 or 83) |
| E. | Tract No, Map No of the | |
| F. | Lot No, Block Noof Unit/TractSubdivision recorded in | of the County. |
| | Other: State M Salt Water Disposal | |
| | On land owned by (required): Darr Angell, P.O. Box | |
| • | | |
| | ILLING CONTRACTOR | |
| μ1- | cense Number: WD-1456 Name: White Drilling Company, Inc. | - Nork Phone: 325,803 2050 |
| | Agent: John W. White | |
| Mai | ling Address: P.O. Box 906 | |
| | | |
| | City: Clyde | State: TX Zip: 79510 |
| 4. DR | ILLING RECORD MW-1 | |
| Dr. | illing began: <u>5/23/07</u> ; Completed: <u>5/23/07</u> | ; Type tools: <u>Air Rotary</u> ; |
| Si | ze of hole: 61/8 in.; Total depth of well: 50.0 | ft.; |
| Co | mpleted well is: Shallow (shallow, arte: | sian); |
| Dej | pth to water upon completion of well: 41.25 | ft. |
| | | |

File Number: Form: wr-20

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: MW-1

| | n Feet To 50.0 | | Description of water-bearing formation Stained grayish green sand. | Estimated Yield (GPM) |
|-----|-----------------------------|--------|--|--------------------------|
| | | ······ | | |
| · · | · <u> </u> | ······ | | |
| | · | | | |

6. RECORD OF CASING

| Diameter | Pounds | Threads | Depth | in Feet | Length | Type of Shoe | Perfor | ations |
|----------|---------|-------------|-------|---------|---------------------------------------|--------------|--------|--------|
| (inches) | per ft. | per in. | Top | Bottom | (feet) | | From | То |
| 2.0 | Sch. 40 | 4.0 | 0.0 | 35.0 | 35.0 | | | |
| 2.0 | .010 | 4.0 | 35.0 | 50.0 | 15.0 | | 35.0 | 50.0 |
| ····· | | | •••= | | | | | |
| | | • • • • • • | | | <u>.</u> | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | | |

7. RECORD OF MUDDING AND CEMENTING

_ ___

| Depth | in Feet | Hole | Sacks | Cubic Feet | Method of Placement |
|-------|---------|----------|--------|------------|---------------------|
| From | То | Diameter | of mud | of Cement | |
| 50.0 | 33.0 | 6 1/8 | 8.0 | | 20/40 Sand |
| 33.0 | 10.0 | 6 1/8 | 8.0 | | Bent. Pellets |
| 10.0 | 0.0 | 6 1/8 | 4.0 | 1.997 | Cement |

8. PLUGGING RECORD

Plugging approved by:

State Engineer Representative

| No. | Depth | in | Feet | Cubic | Feet | of | Cement | |
|-----|-------|----------------------|------|-------|------|----|--------|--|
| Т | op | Во | ttom | | | | | |
| | | | | | | | | |
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| | | | | | | - | | |
| | | | | | | | | |
| | | No. Depth Top | - | - | - | - | - | No. Depth in Feet Cubic Feet of Cement Top Bottom |

File Number: Form: wr-20

page 2 of 4

9.LOG OF HOLE: MW-1

| Depth in From | feet To | Thickness in feet | Color and Type of Material Encountered |
|------------------|------------|---------------------------------------|---|
| 0.0 | 1.0 | 1.0 | Brown sandy clay. |
| 1.0 | 8.0 | 7.0 | Black & gray green stained sludge.(old pit) |
| 8.0 | 12.0 | 4.0 | Limestone stained grayish green. |
| 12.0 | 17.0 | 5.0 | Stained caliche. |
| 17.0 | 25.0 | 8.0 | Stained gravish green sand. |
| 25.0 | 28.0 | 3.0 | Stained gravish green sandstone. |
| 28.0 | 50.0 | 22.0 | Stained grayish green sand. |
| 20.0 | | 22.0 | |
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File Number:

Form: wr-20

____ page 3 of 4 Trn Number:

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

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| The und | dersigned | hereby cer | rtifies that | , to the best o | of his knowledge | e and |
| hole. | , the fore | egoing is a | a true and c | orrect record o | of the above des | scribe |
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| Fi | le | Number | : |
|----|----|--------|---|
| | | | |

| 1.OWN | ER OF WELL | |
|--------|--|---|
| | Name: Chesapeake Operating | Work Phone: |
| | Contact: | Home Phone: |
| | Address: P.O. Box 190 | |
| | City: Hobbs | State: NM Zip: 88241 |
| | | |
| | ATION OF WELL(A,B,C,or D required,E or F if know | |
| А. | 1/41/41/4 Section: <u>18</u> Tov | wnship: <u>1/S</u> Range: <u>36E</u> N.M.P.M. |
| | | County. |
| в. | X =feet, Y = | feet, N.M. Coordinate System |
| | Zone in the | Grant. |
| | U.S.G.S. Quad Map | |
| c. | Latitude: <u>32</u> d <u>49</u> m <u>42.1</u> s Longitu | ude: 103 d 23 m 27.4 s |
| D. | East (m), North (m), UTh | M Zone 13, NAD (27 or 83) |
| E. | Tract No, Map No of the | |
| F. | Lot No, Block No of Unit/Tract | |
| | | County. |
| | | |
| G. | Other: State M Salt Water Disposal | |
| н. | Give State Engineer File Number if existing well | |
| | - | |
| I. | On land owned by (required): Darr Angell, P.O. Bo | ox 190, Lovington, NM 88260 |
| 3. DRI | LLING CONTRACTOR | |
| Lic | cense Number: WD-1456 | |
| | Name: White Drilling Company, Inc. | |
| | Agent: John W. White | Home Phone: 325-893-2950 |
| Mai | ling Address: P.O. Box 906 | |
| | City: Clyde | |
| | • | |
| | ILLING RECORD: SB-1 | |
| | illing began: <u>5/03/07</u> ; Completed: <u>5/03/07</u> ze of hole: 6 1/8 in.; Total depth of well: 39.0 | |
| | mpleted well is: Shallow (shallow, art | |
| | oth to water upon completion of well: Dry | |
| , | | |
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File Number: Form: wr-20

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-1

| | Depth j From | In Feet To | | | ption of bearing form | ation | | Estimated Yiel (GPM) | | |
|-----|------------------------|---------------------------------|--------------------------|-----------------|--------------------------|-------|--------------|-------------------------|---------------|---------------------------------------|
| 6.1 | Diamete | OF CASI er Poun s) per : | ds Thread: ft. per in | . Top | | - | | Shoe | Perfo From | rations To |
| 7.3 | RECORD | OF MUDD | ING AND CH | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | Depth From | | Hole Diameter | Sacks of mud | | | Method of | Placen | nent | |
| | 39.0 | 10.0 | 6 1/8 | 8.5 | | | ntonite Pell | ets | | |
| | 10.0 | 0.0 | 6 1/8 | 4.5 | 19.97 | ce | ment | | | |
| | Pluggin Plu Date | Addı 1gging Met Well Pluq | ctor: ress: thod: | | | | | | | |
| | | 1 2 3 4 | Iop Bot | tom | .c Feet of Ce | ement | | | | |

File Number: Form: wr-20

page 2 of 4

9.LOG OF HOLE: SB-1

Depth in feet Thickness Color and Type of Material Encountered From in feet To 0.0 0.5 0.5 Brown clay & limestone rocks. 0.5 5.0 4.5 Limestone. 7.0 5.0 12.0 Caliche & tan sand. 12.0 20.0 8.0 Tan sandstone. 20.0 22.0 2.0 Moist caliche. 22.0 37.0 15.0 Tan sandstone & tan sand. 37.0 39.0 2.0 Moist brown sand.

File Number:

Form: wr-20

page 3 of 4

Trn Number:

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

ADDITIONAL STATEMENTS OR EXPLANATIONS:SB-1

10.

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| ersigned hereby certifies that, to the best of his knowledge and the foregoing is a true and correct record of the above describe |
|--|
| Driller (mm/dd/year) |
| |
| |
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| |
| FOR STATE ENGINEER USE ONLY |
| |

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| | File Number: |
|--|---|
| NEW MEXICO OFFICE OF THE ST WELL RECORD | ATE ENGINEER |
| 1. OWNER OF WELL | |
| Name: Chesapeake Operating | Work Phone: |
| Contact: | Home Phone: |
| Address: P.O. Box 190 | |
| City: Hobbs | State: NM Zip: 88241 |
| 2. LOCATION OF WELL (A, B, C, or D required, E or F if kn | OMD) |
| A1/41/41/4 Section: 18 To | |
| B. X =feet, Y = | feet, N.M. Coordinate System |
| U.S.G.S. Quad Map | |
| C. Latitude: <u>32</u> d <u>49</u> m <u>40.7</u> s Longit | ude: <u>103</u> d <u>23</u> m <u>28.3</u> s |
| D. East (m), North (m), UT | M Zone 13, NAD (27 or 83) |
| E. Tract No, Map No of the | Hydrographic Survey |
| F. Lot No, Block No of Unit/Tract Subdivision recorded in | |
| G. Other: State M Salt Water Disposal | |
| H. Give State Engineer File Number if existing wel | 1: |
| I. On land owned by (required): Darr Angell, P.O. Bo | ox 190, Lovington, NM 88260 |
| 3. DRILLING CONTRACTOR | |
| License Number: WD-1456 | |
| Name: White Drilling Company, Inc. | Work Phone: 325-893-2950 |
| Agent: John W. White | Home Phone: 325-893-2950 |
| Mailing Address: P.O. Box 906 | |
| City: Clyde | State: TX Zip: 79510 |
| 4. DRILLING RECORD SB-2 | |
| Drilling began: 5/22/07 ; Completed: 5/23/07 | ; Type tools: Air Rotary ; |
| Size of hole: 61/8 in.; Total depth of well: 50. | |
| Completed well is: Shallow (shallow, art | cesian); |
| Depth to water upon completion of well: 42.25 | ft. |
| | |
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File Number: Form: wr-20

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page 1 of 4

Trn Number:

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-2

| (inches) per ft. per in. Top Bottom (feet) From 2.0 Sch. 40 4.0 0.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 MDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement 50.0 10.0 61/8 13.0 Bentonite Pellets 10.0 0.0 61/8 4.5 19.97 cement 3. PLUGGING RECOR | Yield |
|---|--------|
| RECORD OF CASING Diameter Pounds Threads Depth in Feet Length Type of Shoe Perfor 2.0 Sch. 40 4.0 0.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 | |
| Diameter (inches) Pounds per ft. per ft. 2.0 Sch. 40 4.0 4.0 0.0 35.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 | |
| (inches) per ft. per in. Top Bottom (feet) From 2.0 Sch. 40 4.0 0.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 A.0 35.0 50.0 15.0 35.0 2.0 .020 A.0 35.0 50.0 15.0 35.0 2.0 .0 .0 .0 .0 .0 .0 .0 .0 10.0 0.0 6 1/8 13.0 Bentonite Pellets .0 .0 .00 0.0 6 1/8 4.5 19.97 .0 .0 .0 .00 Betwell Plugging Method: | |
| (inches) per ft. per in. Top Bottom (feet) From 2.0 Sch.40 4.0 0.0 35.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 <th>ration</th> | ration |
| 2.0 .020 4.0 35.0 50.0 15.0 35.0 | То |
| 2.0 .020 4.0 35.0 50.0 15.0 35.0 | |
| RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement from To Diameter of mud of Cement 50.0 10.0 6.1/8 13.0 Bentonite Pellets 10.0 0.0 6.1/8 4.5 19.97 cement | 50.0 |
| Depth in Feet Hole Sacks Cubic Feet Method of Placement From To Diameter of mud of Cement Bentonite Pellets 50.0 10.0 6 1/8 13.0 Bentonite Pellets | |
| Depth in Feet Hole Sacks Cubic Feet Method of Placement From To Diameter of mud of Cement Bentonite Pellets 50.0 10.0 6 1/8 13.0 Bentonite Pellets | |
| From To Diameter of mud of Cement 50.0 10.0 6 1/8 13.0 Bentonite Pellets 10.0 0.0 6 1/8 4.5 19.97 cement | |
| From To Diameter of mud of Cement 50.0 10.0 6 1/8 13.0 Bentonite Pellets 10.0 0.0 6 1/8 4.5 19.97 cement | |
| 10.0 0.0 6 1/8 4.5 19.97 cement | |
| 10.0 0.0 6 1/8 4.5 19.97 cement | |
| Plugging Contractor: Address: Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom | |
| . PLUGGING RECORD Plugging Contractor: Address: Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom | |
| Plugging Contractor: Address: Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom | |
| Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom | |
| Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom | |
| Plugging approved by:State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom | |
| Top Bottom | |
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File Number: Form: wr-20

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9. LOG OF HOLE: SB-2

| Depth i From | n feet To | Thickness in feet | Color and Type of Material Encountered |
|--|--------------|---|--|
| 0.0 | 2.0 | 2.0 | Stained black clayey sand. |
| 2.0 | 6.0 | 4.0 | Limestone & stained caliche. |
| 6.0 | 20.0 | 14.0 | Caliche & tan sand. |
| 20.0 | 27.0 | 7.0 | Tan sand. |
| 27.0 | 35.0 | 8.0 | Sandstone tan & light brown. |
| 35.0 | 38.0 | 3.0 | Tan sand. |
| 38.0 | 50.0 | 12.0 | Light brown sand tight packed. Wet @ 40' |
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File Number: Form: wr-20

page 3 of 4

| | File Number: |
|-------------------------|--|
| | NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD |
| | DITIONAL STATEMENTS OR EXPLANATIONS:SB-2 des present in soil. |
| | orary well set to measure groundwater for 24 hours, pull and plugged. |
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| The t belie hole. | undersigned hereby certifies that, to the best of his knowledge and of, the foregoing is a true and correct record of the above described |
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| | FOR STATE ENGINEER USE ONLY |
| Quad | ;FWL ;FSL ;Use ;Location No. |
| File Numb | er: Trn Number: m: wr-20 page 4 of 4 |
| FOI | m: wi-zu page 4 of 4 |
| | Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com |

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| NEW | MEXICO | OFFICE | OF | $\mathbf{T}\mathbf{H}\mathbf{E}$ | STATE | ENGINEER | | |
|-------------|--------|--------|----|----------------------------------|-------|----------|--|--|
| WELL RECORD | | | | | | | | |

| 1. OWNER OF WELL | |
|--|--|
| Name: Chesapeake Operating | Work Phone: |
| Contact: | Nome Dhene. |
| Address: P.O. Box 190 | - |
| | |
| City: Hobbs | State: NM Zip: 88241 |
| 2. LOCATION OF WELL(A,B,C,or D required, E or F if know | m) |
| A1/41/41/4 Section: 18 Town | |
| B. X =feet, Y = | |
| Zone in the | Grant. |
| U.S.G.S. Quad Map | |
| C. Latitude: <u>32</u> d <u>49</u> m <u>41.0</u> s Longitud | de: <u>103</u> d <u>23</u> m <u>27.8</u> s |
| D. East (m), North (m), UTM | Zone 13, NAD (27 or 83) |
| E. Tract No, Map No of the | Hydrographic Survey |
| F. Lot No, Block No of Unit/Tract | of the |
| Subdivision recorded in | County. |
| G. Other: State M Salt Water Disposal H. Give State Engineer File Number if existing well: I. On land owned by (required): Darr Angell, P.O. Box | |
| 3. DRILLING CONTRACTOR | |
| License Number: WD-1456 | |
| Name: White Drilling Company, Inc. | Work Phone: 325-893-2950 |
| Agent: John W. White | Home Phone: 325-893-2950 |
| Mailing Address: P.O. Box 906 | |
| City: Clyde | State: TX Zip: 79510 |
| 4. DRILLING RECORD SB-3 | |
| Drilling began: <u>5/22/07</u> ; Completed: <u>5/22/07</u> | : Type tools: Air Rotary : |
| Size of hole: 6 1/8 in.; Total depth of well: 39.0 | |
| Completed well is: Shallow (shallow, arte | |
| Depth to water upon completion of well: Dry | |
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File Number: Form: wr-20

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-3

| Depth From | in Feet To | Description of water-bearing formation | Estimated Yield (GPM) |
|---------------|---------------|---|--------------------------|
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6. RECORD OF CASING

| | - | | Length | Type of Shoe | Perfora | ations |
|-------------|--------|---------------------------------------|--|--------------|-----------|---|
| ft. per in. | Тор | Bottom | (feet) | | From | То |
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| | | - | nds Threads Depth in Feet ft. per in. Top Bottom | . 5 | | and finded before in root bongen rife er inte |

7. RECORD OF MUDDING AND CEMENTING

| Depth | in Feet | Hole | Sacks | Cubic Feet | Method of Placement |
|-------|---------|----------|--------|------------|---------------------|
| From | То | Diameter | of mud | of Cement | |
| 39.0 | 10.0 | 6 1/8 | 9.0 | | Bentonite Pellets |
| 10.0 | 0.0 | 6 1/8 | 4.5 | 19.97 | cement |
| | | | | | |

----8. PLUGGING RECORD

| Plugging Contractor: | |
|-----------------------|-------------------------------|
| Address: | |
| Plugging Method: | |
| Date Well Plugged: | |
| Plugging approved by: | |
| | State Engineer Representative |
| | |

| | No. | Depth | in | Feet | Cubic | Feet | of | Cement | |
|---|----------|-------|----|------|-------|------|----|--------|--|
| | Т | op | Bo | ttom | | | | | |
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File Number: Form: wr-20

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.LOG OF HOLE: SB-3

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| Depth in From | feet To | Thickness in feet | Color and Type of Material Encountered |
|------------------|------------|---|---|
| 0.0 | 1.0 | 1.0 | Black sandy clay. |
| 1.0 | 3.0 | 2.0 | Black limestone & caliche dirty. |
| 3.0 | 10.0 | 7.0 | Caliche & thin layered limestone. |
| 10.0 | 21.0 | 11.0 | Caliche and tan sand. |
| 21.0 | 25.0 | 4.0 | Reddish brown sand & gravel. |
| 25.0 | 37.0 | 12.0 | Tannish brown sandstone. |
| 37.0 | 39.0 | 2.0 | Light brown sand. moist |
| 57.0 | 09.0 | 2.0 | |
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File Number: Form: wr-20

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| | NEW MEXICO OFFICE WEI | OF THE STATE L RECORD | ENGINEER |
| . ADDITIONA Chlorides pres | L STATEMENTS OR EXPL sent in soil. | ANATIONS:SB-3 | |
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| The undersi belief, the hole. | foregoing is a true | that, to the be and correct reco | est of his knowledge and ord of the above described $\boxed{D[27]}_{dd/year)}$ |
| | | E ENGINEER USE | ONLY |
| Quad; H | FWL;FSL;Use | 2;Locati | on No |
| le Number: Form: wr-2 | 20 page | 4 of 4 | Trn Number: |
| | | Form provided by Form | s On-A-Disk • 214-340-9429 • FormsOnADisk.com |

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| | File Number: |
|---|-------------------------------------|
| NEW MEXICO OFFICE OF THE STAT WELL RECORD | TE ENGINEER |
| 1. OWNER OF WELL Name: Chesapeake Operating Contact: Address: P.O. Box 190 | Home Phone: |
| City: Hobbs | State: <u>NM</u> Zip: <u>88241</u> |
| 2. LOCATION OF WELL(A,B,C,or D required,E or F if known A1/41/41/4 Section: 18 Town in Lea | |
| B. X =feet, Y = Zone in the U.S.G.S. Quad Map | feet, N.M. Coordinate System Grant. |
| C. Latitude: <u>32</u> d <u>49</u> m <u>41.7</u> s Longitud | e: 103 d 23 m 27.2 s |
| D. East (m), North (m), UTM | |
| E. Tract No, Map No of the | |
| F. Lot No, Block No of Unit/Tract Subdivision recorded in | of the |
| G. Other: State M Salt Water Disposal | |
| H. Give State Engineer File Number if existing well: | |
| I. On land owned by (required): Darr Angell, P.O. Box | 190, Lovington, NM 88260 |
| 3. DRILLING CONTRACTOR License Number: WD-1456 Name: White Drilling Company, Inc. Agent: John W. White Mailing Address: P.O. Box 906 | |
| City: Clyde | State: TX Zip: 79510 |
| <pre>4. DRILLING RECORD SB-4 Drilling began: 5/22/07 ; Completed: 5/22/07 Size of hole: 6 1/8 in.; Total depth of well: 39.0 Completed well is: Shallow (shallow, artes Depth to water upon completion of well: Dry</pre> | ft.; sian); |

File Number: Form: wr-20

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-4

| Depth From | in Feet To | | Description of water-bearing formation | Estimated Yield (GPM) |
|---------------|---------------|---------------------------------------|---|--------------------------|
| ******* | | | | |
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6. RECORD OF CASING

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| Diameter (inches) | Threads per in. | - | Length (feet) | Type of Shoe | Perfor From | |
|----------------------|--------------------|---|------------------|--------------|----------------|---|
| <u> </u> | <u></u> | | . | | •••••• | · |
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7. RECORD OF MUDDING AND CEMENTING

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| Depth | in Feet | Hole | Sacks | Cubic Feet | Method of Placement | |
|-------|---------|----------|--------|------------|---------------------|--|
| From | То | Diameter | of mud | of Cement | | |
| 39.0 | 10.0 | 6 1/8 | 9.0 | | Bentonite Pellets | |
| 10.0 | 0.0 | 6 1/8 | 4.5 | 19.97 | cement | |
| | | | | | | |

8. PLUGGING RECORD

| Plugging Contractor: | |
|----------------------|--|
| Address: | |
| Plugging Method: | |
| Date Well Plugged: | |
| | |

Plugging approved by:

State Engineer Representative

| | No. | Depth | in | Feet | Cubic | Feet | of | Cement |
|---|-----|-------|----|------|-------|------|----|--------|
| | Т | op | Во | ttom | | | | |
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File Number: Form: wr-20

page 2 of 4

9.LOG OF HOLE: SB-4

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| Depth in From | feet To | Thickness in feet | Color and Type of Material Encountered |
|---|--|---|--|
| 0.0 | 1.0 | 1.0 | Black clayey sand. |
| 1.0 | 2.0 | 1.0 | Stained brown caliche. |
| 2.0 | 5.0 | 3.0 | Limestone. |
| | | | |
| 5.0 | 14.0 | 9.0 | Caliche & tan sandstone. |
| 14.0 | 21.0 | 7.0 | Light brown & tan sand w/gravel. |
| 21.0 | 27.0 | 6.0 | Light brown sandstone & sand. |
| 27.0 | 28.0 | 1.0 | Caliche. |
| 28.0 | 39.0 | 11.0 | Light brown sand & sandstone. |
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File Number: Form: wr-20

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| | File Number: |
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| | NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD |
| 10. | ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-4 Chlorides present in soil. |
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| | The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole. |
| | $\frac{1/0004}{(mm/dd/year)}$ |
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| | FOR STATE ENGINEER USE ONLY |
| | Quad; FWL; FSL; Use; Location No |
| Fil | e Number: Trn Number: Form: wr-20 page 4 of 4 |
| | Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com |

| | NEW | MEXICO | OFFICE | \mathbf{OF} | $\mathbf{T}\mathbf{H}\mathbf{E}$ | STATE | ENGINEER | |
|-------------|-----|--------|--------|---------------|----------------------------------|-------|----------|--|
| WELL RECORD | | | | | | | | |

| 1. OWNER OF WELL | |
|---|--|
| Name: Chesapeake Operating | Work Phone: |
| Contact: | Home Phone: |
| Address: P.O. Box 190 | |
| | |
| City: Hobbs | State: NM Zip: 88241 |
| 2. LOCATION OF WELL (A, B, C, or D required, E or F if know | |
| A1/41/41/4 Section: 18 Town | |
| in Lea | County. |
| | |
| B. X =feet, Y = | feet, N.M. Coordinate System |
| Zone in the | Grant. |
| U.S.G.S. Quad Map | |
| C. Latitude: <u>32</u> d <u>49</u> m <u>41.4</u> s Longitud | de: 103 d 23 m 25.8 s |
| | |
| D. East (m), North (m), UTM | Zone 13, NAD (27 or 83) |
| E. Tract No, Map No of the | Hydrographic Survey |
| F. Lot No, Block No of Unit/Tract | of the |
| Subdivision recorded in | |
| · | · · · · · · · · · · · · · · · · · · · |
| G. Other: State M Salt Water Disposal | |
| | |
| H. Give State Engineer File Number if existing well: | |
| | 400 Lawington NM 99260 |
| I. On land owned by (required): Darr Angell, P.O. Box | (190, Lovington, NW 88280 |
| 3. DRILLING CONTRACTOR | |
| License Number: WD-1456 | |
| Name: White Drilling Company, Inc. | Work Phone: 325-893-2950 |
| Agent: John W. White | |
| Mailing Address: P.O. Box 906 | |
| | |
| | State: TX Zip: 79510 |
| | |
| 4. DRILLING RECORD: SB-5 | |
| Drilling began: 5/22/07 ; Completed: 5/22/07 | |
| Size of hole: 61/8 in.; Total depth of well: 35.0 | |
| Completed well is: Shallow (shallow, arte | |
| Depth to water upon completion of well: Dry | ft. |
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File Number: Form: wr-20

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page 1 of 4

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-5

| Depth From | in Feet To | Description of water-bearing formation | Estimated Yield (GPM) |
|---------------|---------------|---|---------------------------------------|
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6. RECORD OF CASING

| Diameter (inches) | Threads per in. | - | | Length (feet) | Type of Shoe | Perfora From | |
|----------------------|--------------------|----------|----------|------------------|--------------|-----------------|----------|
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7. RECORD OF MUDDING AND CEMENTING

| Depth | in Feet | Hole | Sacks | Cubic Feet | Method of Placement |
|-------|---------|----------|--------|------------|---------------------|
| From | То | Diameter | of mud | of Cement | |
| 35.0 | 10.0 | 6 1/8 | 8.5 | | Bentonite Pellets |
| 10.0 | 0.0 | 6 1/8 | 4.5 | 19.97 | cement |
| | | | | | |

8. PLUGGING RECORD

| Plugging Contractor: | |
|----------------------|------|
| Address: | |
| Plugging Method: | |
| Date Well Plugged: | |
| | |

Plugging approved by:

State Engineer Representative

| | No. | Depth | in | Feet | Cubic | Feet | of | Cement |
|---|-----|-------|----|------|-------|------|----|--------|
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File Number: Form: wr-20

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.LOG OF HOLE: SB-5

Depth in feet Thickness Color and Type of Material Encountered From То in feet 0.0 3.5 3.5 White limestone. 3.5 10.0 6.5 Caliche & limestone. 10.0 15.0 5.0 Caliche & tan sand. 15.0 18.0 3.0 Tan sand & sandstone. 18.0 20.0 2.0 Light brown sand & sandstone. 20.0 25.5 5.5 Moist light brown sandstone. 25.5 28.0 2.5 Very hard brown sandstone. 28.0 35.0 7.0 Light brown sandstone.

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Form: wr-20

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| | File Number: |
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| | OF THE STATE ENGINEER L RECORD |
| 10. ADDITIONAL STATEMENTS OR EXPL. Chlorides present in soil. | ANATIONS:SB-5 |
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| The undersigned hereby certifies belief, the foregoing is a true a hole. | that, to the best of his knowledge and and correct record of the above described |
| | |
| Dri M er | (mm/dd/year) |
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| | |
| | ENGINEER USE ONLY |
| Quad; FWL; FSL; Use | |
| File Number: Form: wr-20 page 4 | Trn Number: |
| | Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com |

B

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

| 1. OWNER OF WELL | |
|--|------------------------------|
| Name: Chesapeake Operating | Work Phone: |
| Contact: | Home Phone: |
| Address: P.O. Box 190 | |
| | |
| City: Hobbs | State: NM Zip: 88241 |
| 2 IOCATION OF WELL (A R C on D nominal R on E if the | |
| 2. LOCATION OF WELL (A,B,C,or D required, E or F if known A1/41/41/4 Section: 18 Town | |
| in Lea | County. |
| B. X =feet, Y = | feet, N.M. Coordinate System |
| Zone in the | Grant. |
| U.S.G.S. Quad Map | |
| C. Latitude: <u>32</u> d <u>49</u> m <u>40.7</u> s Longitu | de: 103 d 23 m 25.9 s |
| D. East (m), North (m), UTM | |
| | |
| E. Tract No, Map No of the | |
| F. Lot No, Block No of Unit/Tract | of the |
| Subdivision recorded in | County. |
| G. Other: <u>State M Salt Water Disposal</u> H. Give State Engineer File Number if existing well: I. On land owned by (required): <u>Darr Angell, P.O. Box</u> | |
| 3. DRILLING CONTRACTOR | |
| License Number: WD-1456 | |
| Name: White Drilling Company, Inc. | |
| Agent: John W. White | Home Phone: 325-893-2950 |
| Mailing Address: P.O. Box 906 | |
| · | |
| City: Clyde | |
| A DETITING DECODD. OD C | |
| 4. DRILLING RECORD: SB-6 Drilling began: 5/22/07 ; Completed: 5/22/07 | ; Type tools: Air Rotary ; |
| Size of hole: 61/8 in.; Total depth of well: 35.0 | |
| Completed well is: Shallow (shallow, arte | |
| Depth to water upon completion of well: Dry | |
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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-6

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| Depth : From | in Feet To | | water-: | bearing forma | | | | |
|-----------------|---|--|-----------|---------------------------------------|------------------|--------------------------|----------|-------|
| 5 . RECORD | OF CASI | | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | | in Feet Bottom | (feet) | | From | ····· |
| | | | | | | | | |
| Depth From | in Feet | | Sacks | Cubic Feet of Cement | | lethod of onite Pelle | ent | |
| 10.0 | | · | | 19.97 | ceme | | | |
| | | | | | | | | |
| Date | ugging Met Well Plug g approved No 1 2 | thod: gged: d by: d by: d by: | Feet Cubi | c Feet of Ce | ineer Re ment | | | |
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| File Numbe | er: | | | | Tri | n Number: | | * |

Form: wr-20

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9.LOG OF HOLE: SB-6

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| Depth in From | feet To | Thickness in feet | Color and Type of Material Encountered |
|--------------------|------------|---------------------------------------|--|
| 0.0 | 6.0 | 6.0 | Limestone. |
| 6.0 | 22.0 | 16.0 | Caliche & tan sand. |
| 22.0 | 24.0 | 2.0 | Hard sandstone. |
| 24.0 | 25.0 | 1.0 | Light brown sand & sandstone. |
| 25.0 | 28.0 | 3.0 | Hard sandstone light brown. |
| 28.0 | 32.0 | 4.0 | Light brown sandstone. |
| 32.0 | 35.0 | 3.0 | Tan sand & sanstone. |
| 52.0 | | 5.0 | |
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File Number: Form: wr-20

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| Fi | 1 | e | Number: | |
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| 1. OWNER OF WELL | |
|--|--|
| Name: Chesapeake Operating | Work Phone: |
| Contact: | Home Phone: |
| Address: P.O. Box 190 | |
| · | |
| City: <u>Hobbs</u> | State: NM Zip: 88241 |
| 2. LOCATION OF WELL (A, B, C, or D required, E or F if kr | (תאסנ |
| A1/41/41/4 Section: 18 To | |
| in Lea | County. |
| | |
| B. $X = $ feet, $Y = $ | feet, N.M. Coordinate System |
| Zone in the U.S.G.S. Quad Map | Grant. |
| | |
| C. Latitude: <u>32</u> d <u>49</u> m <u>40.2</u> s Longi | tude: <u>103</u> d <u>23</u> m <u>27.5</u> s |
| D. East (m), North (m), U | IM Zone 13, NAD (27 or 83) |
| E. Tract No, Map No of the | Hydrographic Survey |
| F. Lot No, Block No of Unit/Tract | of the |
| Subdivision recorded in | County. |
| G. Other: <u>State M Salt Water Disposal</u> H. Give State Engineer File Number if existing well I. On land owned by (required): Darr Angell, P.O. B | |
| | <u> </u> |
| 3. DRILLING CONTRACTOR | |
| License Number: WD-1456 | |
| Name: White Drilling Company, Inc. | |
| Agent: John W. White Mailing Address: P.O. Box 906 | Home Phone: 323-693-2930 |
| Mailing Address: F.O. BOX 900 | |
| City: Clyde | State: TX Zip: 79510 |
| | |
| 4. DRILLING RECORD SB-8 | · Tumo tools: Air Rotary |
| Drilling began: <u>5/23/07</u> ; Completed: <u>5/23/07</u> Size of hole: 6 1/8 in.; Total depth of well: 39 | |
| Completed well is: Shallow (shallow, ar | |
| Depth to water upon completion of well: Dry | ft. |
| | |
| | |

page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-8

| Depth From | in Feet To | | Description of water-bearing formation | Estimated Yield (GPM) |
|---------------|---------------|----------|---|---------------------------------------|
| · | | · | | |
| <u> </u> | | <u> </u> | | · · · · · · · · · · · · · · · · · · · |
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6. RECORD OF CASING

| Diameter (inches) | | | - | | Length (feet) | Type of Shoe | Perfor From | |
|----------------------|----------|---|---------------------------------------|--------|---------------------------------------|---------------------------------------|----------------|------|
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7. RECORD OF MUDDING AND CEMENTING

| Depth | in Feet | Hole | Sacks | Cubic Feet | Method of Placement |
|-------|---------|----------|--------|------------|---------------------------------------|
| From | То | Diameter | of mud | of Cement | |
| 39.0 | 10.0 | 6 1/8 | 9.0 | | Bentonite Pellets |
| 10.0 | 0.0 | 6 1/8 | 4.5 | 19.97 | cement |
| | | | | | · · · · · · · · · · · · · · · · · · · |

8. PLUGGING RECORD

9.5

| Plugging Contractor: | |
|----------------------|--|
| Address: | |
| Plugging Method: | |
| Date Well Plugged: | |
| | |

Plugging approved by:

State Engineer Representative

| | No. | Depth | in | Feet | Cubic | Feet | of | Cement | |
|---|-----|-------|----|------|-------|------|----|--------|---|
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File Number: Form: wr-20

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.LOG OF HOLE: SB-8

| Depth in From | feet To | Thickness in feet | Color and Type of Material Encountered |
|------------------|------------|----------------------|--|
| 0.0 | 1.0 | 1.0 | Brown sandy clay. |
| 1.0 | 5.0 | 4.0 | Limestone. |
| 5.0 | 10.0 | 5.0 | Caliche & thin layered limestone. |
| 10.0 | 14.0 | 4.0 | Tan sand w/gravel. |
| 14.0 | 18.0 | 4.0 | Tan sand. |
| 18.0 | 22.0 | 4.0 | Light brown sand. |
| 22.0 | 24.0 | 2.0 | Light brown sand w/gravel. |
| 24.0 | 30.0 | 6.0 | Light brown sand. |
| 30.0 | 33.0 | 3.0 | Tan sand. |
| 33.0 | 39.0 | 6.0 | Light brown sand. |
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| File Number: |
|---|
| NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD |
| ADDITIONAL STATEMENTS OR EXPLANATIONS:SB-8 Chlorides present in soil. |
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| The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole. |
| Driller $\frac{1}{(mm/dd/year)}$ |
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| · FOR STATE ENGINEER USE ONLY |
| Quad; FWL; FSL; Use; Location No |
| e Number: Trn Number: Form: wr-20 page 4 of 4 |
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TABLES

TABLE 1 SUMMARY SOIL ANALYTICAL DATA TABLE 2 SUMMARY GROUND WATER ANALYTICAL DATA

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STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

> Prepared by: BBC International, Inc.

Table 1. Soil Laboratory Analytical Results Summary State M-1

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| | | Sample | SB1 @ 1 | SB1 @ 3"* | SB1 @ 5 | SB1 @ 20' | SB1 @ 39" |
|---------------|------------|----------|-----------|-----------|----------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | 🗞 mg/Kg 😘 | mg/Kg 🖉 | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/03/07 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Toluene | S 8021B | 05/03/07 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/03/07 | < 0.0100 | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/03/07 | 0.168 | < 0.0100 | < 0.0100 | < 0.0100 | <0.0100 |
| Chloride | EPA 300.0 | 05/03/07 | 1790 | 617 | 2120 | 5140 | 408 |
| GRO | S 8015B | 05/03/07 | 36.4 | <1.00 | <1.00 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/03/07 | 110 | <50.0 | <50.0 | <50.0 | <50.0 |

| | | Sample | SB2 @ 1 | SB2,@3' | SB2 @ 5' | SB2 @ 30' | SB2 @ 50! |
|---------------|------------|----------|---------|----------|----------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/22/07 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Toluene | S 8021B | 05/22/07 | <0.0100 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/22/07 | 2.56 | 0.0382 | <0.0100 | <0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/22/07 | 11.5 | 0.210 | <0.0100 | <0.0100 | < 0.0100 |
| Chloride | EPA 300.0 | 05/22/07 | 2020 | 402 | 306 | 2060 | 43.5 |
| GRO | S 8015B | 05/22/07 | 657 | 45.4 | <1.00 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/22/07 | 1430 | 288 | <50.0 | <50.0 | <50.0 |

| | | Sample | SB3 @ 1' | SB3 @ 3' | SB3 @ 5' , | SB3 @ 25' | SB3 @`39' |
|---------------|------------|----------|----------|----------|------------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/22/07 | <0.200 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Toluene | S 8021B | 05/22/07 | <0.200 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/22/07 | 2.28 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/22/07 | 3.17 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 |
| Chloride | EPA 300.0 | 05/22/07 | 2720 | 1270 | 1400 | 2530 | 328 |
| GRO | S 8015B | 05/22/07 | 270 | 2.26 | 1.11 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/22/07 | 2710 | <50.0 | <50.0 | <50.0 | <50.0 |

| | | Sample | SB4 @ 15 | SB4 @ 3' | SB4 @ 5" | SB4 @ 20' | SB4 @ 39' |
|---------------|------------|----------|----------|----------|----------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg | , mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/22/07 | <0.0100 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 |
| Toluene | S 8021B | 05/22/07 | <0.0100 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/22/07 | <0.0100 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/22/07 | 0.0408 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Chloride | EPA 300.0 | 05/22/07 | 120 | 117 | 238 | 3310 | 144 |
| GRO | S 8015B | 05/22/07 | 16.4 | <1.00 | <1.00 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/22/07 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |

Table 1. Soil Laboratory Analytical Results Summary State M-1

| | | Sample | SB5 @`1' | SB5 @ 3 ¹⁴ | [▶] SB5 @ 5' [⊾] | SB5 @ 20! | SB5:@ 35' |
|---------------|------------|----------|----------|-----------------------|------------------------------------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/22/07 | | <0.0100 | < 0.0100 | <0.0100 | <0.0100 |
| Toluene | S 8021B | 05/22/07 | < 0.0100 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/22/07 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/22/07 | < 0.0100 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Chloride | EPA 300.0 | 05/22/07 | 1210 | 882 | 1490 | 2080 | 49.1 |
| GRO | S 8015B | 05/22/07 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/22/07 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |

| | | Sample | SB6 @ 1 | SB6 @ 3' | SB6 @ 5' | SB6 @ 15' | SB6 @ 35' |
|---------------|------------|----------|----------|----------|----------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/22/07 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Toluene | S 8021B | 05/22/07 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/22/07 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/22/07 | < 0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Chloride | EPA 300.0 | 05/22/07 | 414 | 243 | 705 | 1460 | 461 |
| GRO | S 8015B | 05/22/07 | <1.00 | <1.00 | 1300 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/22/07 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |

| | | Sample | - SB7 @ 1' | SB7 @ 3' | , SB7:@ 5' | SB7 @ 20' | SB7 @ 39' |
|---------------|------------|----------|------------|----------|------------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/23/07 | 0.0717 | <0.0100 | 1.24 | 6.46 | 73.8 |
| Toluene | S 8021B | 05/23/07 | 0.0699 | <0.0100 | <0.200 | 0.770 | 46.5 |
| Ethylbenzene | S 8021B | 05/23/07 | 0.157 | <0.0100 | 0.948 | 21.4 | 170 |
| Total Xylenes | S 8021B | 05/23/07 | 0.244 | 0.478 | 4.05 | 40.0 | 269 |
| Chloride | EPA 300.0 | 05/23/07 | 42.8 | 41.6 | 210 | 19.0 | 24.9 |
| GRO | S 8015B | 05/23/07 | 21.1 | 73.9 | 377 | 1010 | 8800 |
| DRO | Mod. 8015B | 05/23/07 | 814 | 4380 | 16700 | 6620 | 21600 |

| | | Sample | SB8 @ 1' | SB8 @ 3' | SB8 @ 5' | SB8 @ 20' | SB8 @ 39' |
|---------------|------------|----------|----------|----------|----------|-----------|-----------|
| Analyte | Method | Date | | | | | |
| | | | mg/Kg | mg/Kg 🙏 | mg/Kg | mg/Kg | mg/Kg |
| Benzene | S 8021B | 05/23/07 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Toluene | S 8021B | 05/23/07 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 |
| Ethylbenzene | S 8021B | 05/23/07 | <0.0100 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 |
| Total Xylenes | S 8021B | 05/23/07 | <0.0100 | <0.0100 | < 0.0100 | <0.0100 | <0.0100 |
| Chloride | EPA 300.0 | 05/23/07 | 10800 | 290 | 303 | 2190 | 263 |
| GRO | S 8015B | 05/23/07 | 5.65 | <1.00 | <1.00 | <1.00 | <1.00 |
| DRO | Mod. 8015B | 05/23/07 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 |

| | | Sample | TMW/ |
|---------------|------------|----------|-----------|
| Analyte | Method | Date | |
| | | | mg/L |
| Benzene | S 8021B | 05/23/07 | <0.00100 |
| Toluene | S 8021B | 05/23/07 | <0.00100 |
| Ethylbenzene | S 8021B | 05/23/07 | <0.00100 |
| Total Xylenes | S 8021B | 05/23/07 | < 0.00100 |
| Chloride | EPA 300.0 | 05/23/07 | 108 |
| GRO | S 8015B | 05/23/07 | <0.100 |
| DRO | Mod. 8015B | 05/23/07 | <5.00 |

Table 2. Groundwater Laboratory Analytical Results Summary State M-1

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