

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Rec'd 4/22/09
NMOCD

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: MEWBOURNE OIL COMPANY _____ OGRID #: 14744 _____
Address: PO BOX 5270 HOBBS NEW MEXICO 88241 _____
Facility or well name: Dos Hermanos 6 Fed Com #1 _____
API Number: 30-015-36402 _____ OCD Permit Number: _____
U/L or Qtr/Qtr W _____ Section 6 _____ Township 21S _____ Range 29E _____ County: Eddy _____
Center of Proposed Design: Latitude 32° 50' 22" _____ Longitude 104° 03' 01" _____ NAD: X 1927 ☐ 1983
Surface Owner: X Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
X Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: X Drilling X Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
X Lined ☐ Unlined Liner type: Thickness 20 mil X LLDPE ☐ HDPE ☐ PVC ☐ Other _____
X String-Reinforced
Liner Seams: ☐ Welded X Factory ☐ Other _____ Volume: 13500 bbl Dimensions: L 120 x W 100 x D 8

3.
☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Type of Operation. ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other _____
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
Liner Seams. ☐ Welded ☐ Factory ☐ Other _____

4.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: _____ bbl Type of fluid: _____
Tank Construction material: _____
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

5.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Final Closure date: 2/10/09

6.

Fencing: Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- ☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☐ Alternate. Please specify _____

7.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☐ Netting ☐ Other _____
- ☐ Monthly inspections (If netting or screening is not physically feasible)

8.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- ☐ Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System

☐ Alternative

Proposed Closure Method: ☐ Waste Excavation and Removal

☐ Waste Removal (Closed-loop systems only)

☐ On-site Closure Method (Only for temporary pits and closed-loop systems)

☐ In-place Burial ☐ On-site Trench Burial

☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

20.

OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

21.

Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

X Closure Completion Date: 2/10/2009

22.

Closure Method:

☐ Waste Excavation and Removal X On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

23.

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations.

- ☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.

Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.

- X Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
X Plot Plan (for on-site closures and temporary pits)
X Confirmation Sampling Analytical Results (if applicable)
X Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
X Soil Backfilling and Cover Installation
X Re-vegetation Application Rates and Seeding Technique
X Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 32° 31.234' N Longitude 104° 01.536' W NAD: X 1927 ☐ 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Charles Martin Title: Engineer

Signature: Charles A. Martin Date: 4-20-09

e-mail address: C.Martin@mcobaseline.com Telephone: (575) 393 5905

Accepted for record
NMOCD

APR 27 2009



February 16, 2009

APR 22 2009

7143110
92 North Ridge
Aurora, Texas 76007
Phone: 817.467.6000
Fax: 817.467.6027

Mike Bratcher
New Mexico Oil Conservation Division
District 2 office
1301 W. Grand Avenue
Artesia, New Mexico 88210

RE: Request for closure of the DOS HERMANOS 6 Fed. Com #1.

AUSTIN
3010 Gary Ave
Building C-100
Ft. Worth, Texas 76106
Phone: 817.345.3420
Fax: 817.345.3420

In December 2008, Talon/LPE was contracted by the Mewbourne Oil Company to perform the pit closure activities at the DOS HERMANOS 6 Fed. Com #1, API# 30-015-36402, Unit C Sec 6-T21S-R29E, in Eddy county New Mexico. The C-144 for this pit closure was submitted to Tim Gum and approved on July 29, 2008.

W. GRAND
4910 Industrial Loop
Midland, Texas 79706
Phone: 432.522.2100
Fax: 432.522.2100

Talon/LPE contacted Mike Bratcher on December 18, 2008 to give forty eight hour notification of intent to proceed with trench burial and was given verbal permission to proceed. Talon/LPE mixed all drill cuttings from the reserve pit at a ratio not more than 3:1 to stabilize the soil in preparation for trench burial. Up on completion of mixing the drill cuttings, Eb Taylor with Talon/LPE contacted Sherry Bonham on December 30, 2008 to notify of the planed sampling of the drill cuttings on January 5, 2009. A five point composite sample was collected from the drill cuttings and the samples were sent to Trace Analysis and analyzed in compliance with 19.15.17.13NMAC for official analytical results. When analytical results were reviewed, it was determined that the drill cuttings meet the NMOCD standards set for trench burial. Talon/LPE excavated a burial cell in the south side of the reserve pit approximately 150'x40'x20', and lined it with a 20 mil liner. Once the drill cuttings were placed in the burial cell, a 20 mil cap was placed on top to seal the burial cell. On January 7, 2009 Eb Taylor with Talon/LPE collected a five point composite sample from the pit floor and sent them to Trace Analysis to be analyzed in compliance with 19.15.17.13 NMAC for official analytical (see attached analytical). After review of the analytical it was determined that the reserve pit area could be backfilled. The area was backfilled and contoured to the surrounding area.

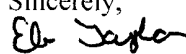
NEW HAMPSHIRE
707 N. Walnut Ave.
Salem, NH
New Hampshire, USA 03080
Tel: 603.875.0005
Fax: 603.875.0000

No deed amendment is required for this closure due to the fact this is Federal land, Mewbourne Oil Company will place the burial marker at 32° 31.234 N 104° 01.536 W.

TEXAS
10101 S. Loop West, Suite 100
Dallas, Texas 75243
Phone: 214.342.0000
Fax: 214.342.0000

After review of attached documents and analysis by the NMOCD, Talon/LPE, and Mewbourne Oil Company we are requesting that this pit be considered properly closed.

10888
3120 Taylor Street
Albuquerque, New Mexico 87104
Phone: 505.360.1111
Fax: 505.360.1111

Sincerely,

Eb Taylor
New Mexico Division Manager
Talon/LPE

ENVIRONMENTAL CONSULTING
CONSULTANTS
INC.
CONSTRUCTION
ENVIRONMENTAL CONSULTANTS

Toll Free: 800.742.0042
www.talonlpe.com

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 77560	Pool Name Golden Lane Morrow ✓
Property Code 37203	Property Name DOS HERMANOS "6" FEDERAL	Well Number 1
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3417'

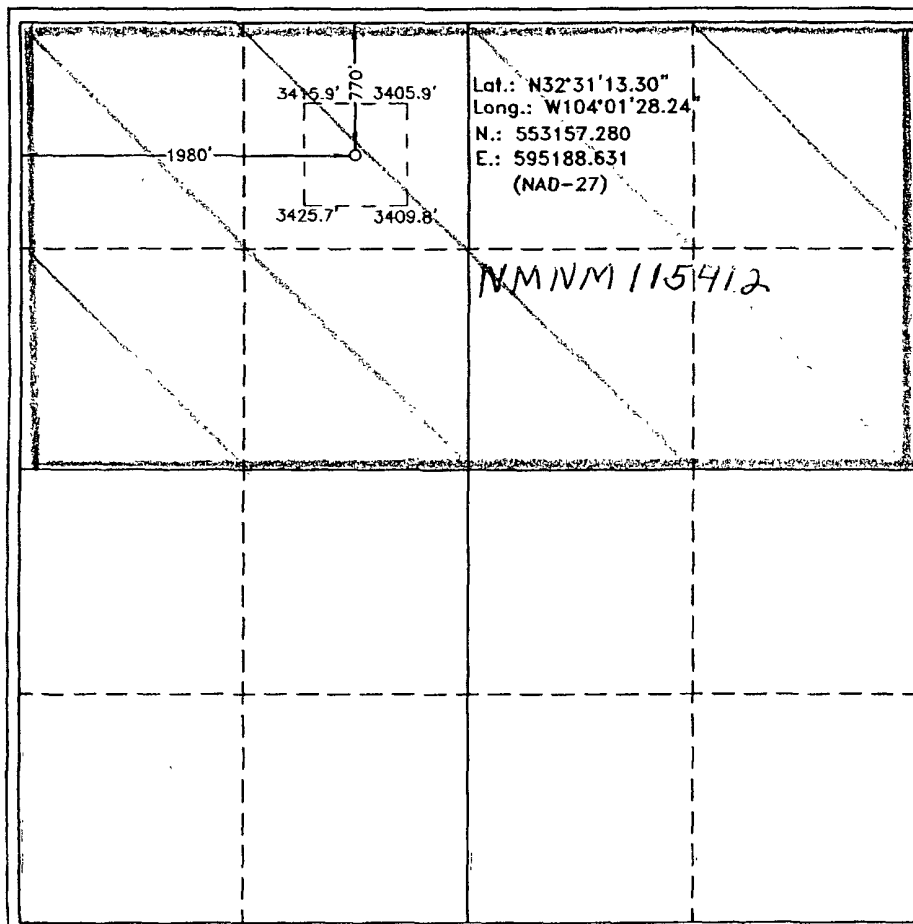
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 3	6	21 S	29 E		770	NORTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Jackie Lathan</i> 4/25/08 Signature Date</p> <p><i>Jackie Lathan</i> Printed Name</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>APR 14 2006 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature & Seal Professional Surveyor</p> <p>W.C. 7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>
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Submit To Appropriate District Office
Two Copies
District I
1625 N French Dr., Hobbs, NM 88240
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1301 W Grand Avenue, Artesia, NM 88210
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1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
July 17, 2008

1. WELL API NO.
30-015-36402

2. Type of Lease
☐ STATE ☐ FEE ☒ FED/INDIAN

3. State Oil & Gas Lease No. NMM-115412

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing
☐ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)
☒ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33, attach this and the plat to the C-144 closure report in accordance with 19 15.17 13 K NMAC)

7. Type of Completion
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator
MEWBOURNE OIL COMPANY

10. Address of Operator

5. Lease Name or Unit Agreement Name
DAS HERMANOS

6. Well Number
6 FED Com #1

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										

13. Date Spudded	14. Date T D Reached	15. Date Rig Released 11-03-08	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run	

22. Producing Interval(s), of this completion - Top, Bottom, Name

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)					
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl	Gas - Oil Ratio
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Test Witnessed By

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit

33. If an on-site burial was used at the well, report the exact location of the on-site burial

Latitude 32° 31.234' N Longitude 104° 01.536' W NAD 1927 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Charles L. Martin Printed Name Charles Martin Title Engineer Date 4-20-09

E-mail Address cmartin@mewbourne.com



TRACE ANALYSIS, INC.

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 101 East S. 1st Street, Suite 100 • Midland, Texas 79701 • 432-681-0700 • Fax: 432-681-0700

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
 LELAP-02003
 Kansas E-10317

El Paso: T104704221-08-TX
 LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Eb Taylor
 Talon LPE-Hobbs
 318 E Taylor
 Hobbs, NM, 88240

Report Date: February 2, 2009

Work Order: 9012801



Project Location: Eddy Co., NM
 Project Name: Dos Hermanos 6 Fed. Com. #1
 Project Number: MEWBOU034PIT

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
185904	Floor Comp.	soil	2009-01-27	11:00	2009-01-28

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 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, appearing to read "Michael Abel". The signature is fluid and cursive, with the first name "Michael" and last name "Abel" clearly distinguishable.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Dos Hermanos 6 Fed. Com. #1 were received by TraceAnalysis, Inc. on 2009-01-28 and assigned to work order 9012801. Samples for work order 9012801 were received intact at a temperature of 4.0 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	48254	2009-01-29 at 11:17	56465	2009-01-29 at 11:17
Chloride (Titration)	SM 4500-Cl B	48202	2009-01-28 at 13:05	56456	2009-01-29 at 15:28
TPH 418.1	E 418.1	48259	2009-01-30 at 08:00	56475	2009-01-30 at 10:10
TPH DRO	Mod. 8015B	48203	2009-01-28 at 13:30	56414	2009-01-28 at 14:20
TPH GRO	S 8015B	48254	2009-01-29 at 11:17	56469	2009-01-29 at 11:17

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 9012801 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: 185904 - Floor Comp.

Laboratory: Midland
Analysis: BTEX
QC Batch: 56465
Prep Batch: 48254

Analytical Method: S 8021B
Date Analyzed: 2009-01-29
Sample Preparation: 2009-01-29

Prep Method: S 5035
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		0.117	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.924	mg/Kg	1	1.00	92	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	45.2 - 144.3

Sample: 185904 - Floor Comp.

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 56456
Prep Batch: 48202

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-01-29
Sample Preparation: 2009-01-28

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 185904 - Floor Comp.

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 56475
Prep Batch: 48259

Analytical Method: E 418.1
Date Analyzed: 2009-01-30
Sample Preparation: 2009-01-30

Prep Method: N/A
Analyzed By: CM
Prepared By: CM

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<10.0	mg/Kg	1	10.0

Report Date: February 2, 2009
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Sample: 185904 - Floor Comp.

Laboratory:	Midland	Analytical Method:	Mod. 8015B	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2009-01-28	Analyzed By:	LD
QC Batch:	56414	Sample Preparation:	2009-01-28	Prepared By:	LD
Prep Batch:	48203				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		90.7	mg/Kg	1	100	91	10 - 250.4

Sample: 185904 - Floor Comp.

Laboratory:	Midland	Analytical Method:	S 8015B	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2009-01-29	Analyzed By:	ME
QC Batch:	56469	Sample Preparation:	2009-01-29	Prepared By:	ME
Prep Batch:	48254				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		5.36	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.957	mg/Kg	1	1.00	96	75 - 117.2
4-Bromofluorobenzene (4-BFB)		0.847	mg/Kg	1	1.00	85	56 - 142.8

Method Blank (1) QC Batch: 56414

QC Batch:	56414	Date Analyzed:	2009-01-28	Analyzed By:	LD
Prep Batch:	48203	QC Preparation:	2009-01-28	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		<12.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		82.0	mg/Kg	1	100	82	30.9 - 146.4

Report Date: February 2, 2009
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Method Blank (1) QC Batch: 56456

QC Batch: 56456
Prep Batch: 48202

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-28

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.01	mg/Kg	4

Method Blank (1) QC Batch: 56465

QC Batch: 56465
Prep Batch: 48254

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-29

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00800	mg/Kg	0.01
Toluene		<0.00800	mg/Kg	0.01
Ethylbenzene		<0.00820	mg/Kg	0.01
Xylene		<0.00960	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.960	mg/Kg	1	1.00	96	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		0.731	mg/Kg	1	1.00	73	51.9 - 128.1

Method Blank (1) QC Batch: 56469

QC Batch: 56469
Prep Batch: 48254

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-29

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.171	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.922	mg/Kg	1	1.00	92	58.3 - 129.3
4-Bromofluorobenzene (4-BFB)		0.607	mg/Kg	1	1.00	61	57 - 124.9

Method Blank (1) QC Batch: 56475

QC Batch: 56475
Prep Batch: 48259

Date Analyzed: 2009-01-30
QC Preparation: 2009-01-30

Analyzed By: CM
Prepared By: CM

Report Date: February 2, 2009
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Parameter	Flag	MDL Result	Units	RL
TRPHC		<5.28	mg/Kg	10

Laboratory Control Spike (LCS-1)

QC Batch: 56414
Prep Batch: 48203

Date Analyzed: 2009-01-28
QC Preparation: 2009-01-28

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	272	mg/Kg	1	250	<12.0	109	27.8 - 152.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	270	mg/Kg	1	250	<12.0	108	27.8 - 152.1	1	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
n-Triacontane	84.7	84.4	mg/Kg	1	100	85	84	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 56456
Prep Batch: 48202

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-28

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.2	mg/Kg	1	100	<2.01	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<2.01	100	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 56465
Prep Batch: 48254

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-29

Analyzed By: ME
Prepared By: ME

Report Date: February 2, 2009
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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.761	mg/Kg	1	1.00	<0.00800	76	72.7 - 129.8
Toluene	0.903	mg/Kg	1	1.00	<0.00800	90	71.6 - 129.6
Ethylbenzene	1.20	mg/Kg	1	1.00	<0.00820	120	70.8 - 129.7
Xylene	3.68	mg/Kg	1	3.00	<0.00960	123	70.9 - 129.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.800	mg/Kg	1	1.00	<0.00800	80	72.7 - 129.8	5	20
Toluene	0.956	mg/Kg	1	1.00	<0.00800	96	71.6 - 129.6	6	20
Ethylbenzene	0.997	mg/Kg	1	1.00	<0.00820	100	70.8 - 129.7	18	20
Xylene	3.03	mg/Kg	1	3.00	<0.00960	101	70.9 - 129.4	19	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)	0.903	0.943	mg/Kg	1	1.00	90	94	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.08	0.812	mg/Kg	1	1.00	108	81	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 56469
Prep Batch: 48254

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-29

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.78	mg/Kg	1	10.0	<0.171	78	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.83	mg/Kg	1	10.0	<0.171	78	70 - 130	1	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)	0.982	0.937	mg/Kg	1	1.00	98	94	70 - 130
4-Bromofluorobenzene (4-BFB)	0.728	0.744	mg/Kg	1	1.00	73	74	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 56475
Prep Batch: 48259

Date Analyzed: 2009-01-30
QC Preparation: 2009-01-30

Analyzed By: CM
Prepared By: CM

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	249	mg/Kg	1	250	<5.28	100	75.5 - 136

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	255	mg/Kg	1	250	<5.28	102	75.5 - 136	2	20

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

Matrix Spike (MS-1) Spiked Sample: 185904

QC Batch: 56414
Prep Batch: 48203

Date Analyzed: 2009-01-28
QC Preparation: 2009-01-28

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	244	mg/Kg	1	250	<12.0	98	18 - 179.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	256	mg/Kg	1	250	<12.0	102	18 - 179.5	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	78.3	79.1	mg/Kg	1	100	78	79	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 185904

QC Batch: 56456
Prep Batch: 48202

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-28

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5110	mg/Kg	50	5000	193	98	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5190	mg/Kg	50	5000	193	100	85 - 115	2	20

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

Matrix Spike (MS-1) Spiked Sample: 185904

QC Batch: 56465
Prep Batch: 48254

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-29

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.894	mg/Kg	1	1.00	<0.00800	89	58.6 - 165.2
Toluene	1.08	mg/Kg	1	1.00	0.1169	96	64.2 - 153.8
Ethylbenzene	1.14	mg/Kg	1	1.00	<0.00820	114	61.6 - 159.4
Xylene	3.44	mg/Kg	1	3.00	<0.00960	115	64.4 - 155.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.864	mg/Kg	1	1.00	<0.00800	86	58.6 - 165.2	3	20
Toluene	1.04	mg/Kg	1	1.00	0.1169	92	64.2 - 153.8	4	20
Ethylbenzene	1.07	mg/Kg	1	1.00	<0.00820	107	61.6 - 159.4	6	20
Xylene	3.27	mg/Kg	1	3.00	<0.00960	109	64.4 - 155.3	5	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.942	0.942	mg/Kg	1	1	94	94	76 - 127.9
4-Bromofluorobenzene (4-BFB)	0.991	1.06	mg/Kg	1	1	99	106	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 185450

QC Batch: 56469
Prep Batch: 48254

Date Analyzed: 2009-01-29
QC Preparation: 2009-01-29

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	¹ 120	mg/Kg	2	20.0	87.9226	160	22.3 - 134.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	² 142	mg/Kg	2	20.0	87.9226	270	22.3 - 134.6	17	20

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

¹Matrix spike recovery out of control limits due to peak interference. Use LCS to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to peak interference. Use LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.97	1.64	mg/Kg	2	2	98	82	68.4 - 113.1
4-Bromofluorobenzene (4-BFB)	3.16	3.44	mg/Kg	2	2	158	172	66.7 - 134.3

Matrix Spike (MS-1) Spiked Sample: 185781

QC Batch: 56475
Prep Batch: 48259

Date Analyzed: 2009-01-30
QC Preparation: 2009-01-30

Analyzed By: CM
Prepared By: CM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	274	mg/Kg	1	250	<5.28	110	10 - 354

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	275	mg/Kg	1	250	<5.28	110	10 - 354	0	20

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

Standard (ICV-1)

QC Batch: 56414

Date Analyzed: 2009-01-28

Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	275	110	85 - 115	2009-01-28

Standard (CCV-1)

QC Batch: 56414

Date Analyzed: 2009-01-28

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	272	109	85 - 115	2009-01-28

Standard (ICV-1)

QC Batch: 56456

Date Analyzed: 2009-01-29

Analyzed By: AR

³High surrogate recovery due to peak interference.

⁴High surrogate recovery due to peak interference.

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-01-29

Standard (CCV-1)

QC Batch: 56456

Date Analyzed: 2009-01-29

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-01-29

Standard (ICV-1)

QC Batch: 56465

Date Analyzed: 2009-01-29

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0856	86	85 - 115	2009-01-29
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2009-01-29
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2009-01-29
Xylene		mg/Kg	0.300	0.293	98	85 - 115	2009-01-29

Standard (CCV-1)

QC Batch: 56465

Date Analyzed: 2009-01-29

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0910	91	85 - 115	2009-01-29
Toluene		mg/Kg	0.100	0.108	108	85 - 115	2009-01-29
Ethylbenzene		mg/Kg	0.100	0.111	111	85 - 115	2009-01-29
Xylene		mg/Kg	0.300	0.339	113	85 - 115	2009-01-29

Standard (CCV-1)

QC Batch: 56469

Date Analyzed: 2009-01-29

Analyzed By: ME

Report Date: February 2, 2009
MEWBOU034PIT

Work Order: 9012801
Dos Hermanos 6 Fed. Com. #1

Page Number: 13 of 13
Eddy Co., NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	85 - 115	2009-01-29

Standard (CCV-2)

QC Batch: 56469

Date Analyzed: 2009-01-29

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.10	110	85 - 115	2009-01-29

Standard (ICV-1)

QC Batch: 56475

Date Analyzed: 2009-01-30

Analyzed By: CM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	103	103	80 - 120	2009-01-30

Standard (CCV-1)

QC Batch: 56475

Date Analyzed: 2009-01-30

Analyzed By: CM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	88.0	88	80 - 120	2009-01-30




2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-09-00194
Client Sample ID: 184110
Sample Collection Date: 01/05/09 13:00
Sample Matrix: Aqueous

Request or PO Number: 9010718
ARS Sample ID: ARS1-09-00194-001
Date Received: 1/15/2009
Report Date: 01/28/09 13:29

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
RA-226	0.708	0.726	0.382	0.138	pCi/L	ARS-010/EPA 904.0	1/23/09 15:48	JB	108.00%
RA-228	0.859	1.051	1.712	0.796	pCi/L	ARS-010/EPA 904.0	1/23/09 11:44	JB	107.57%

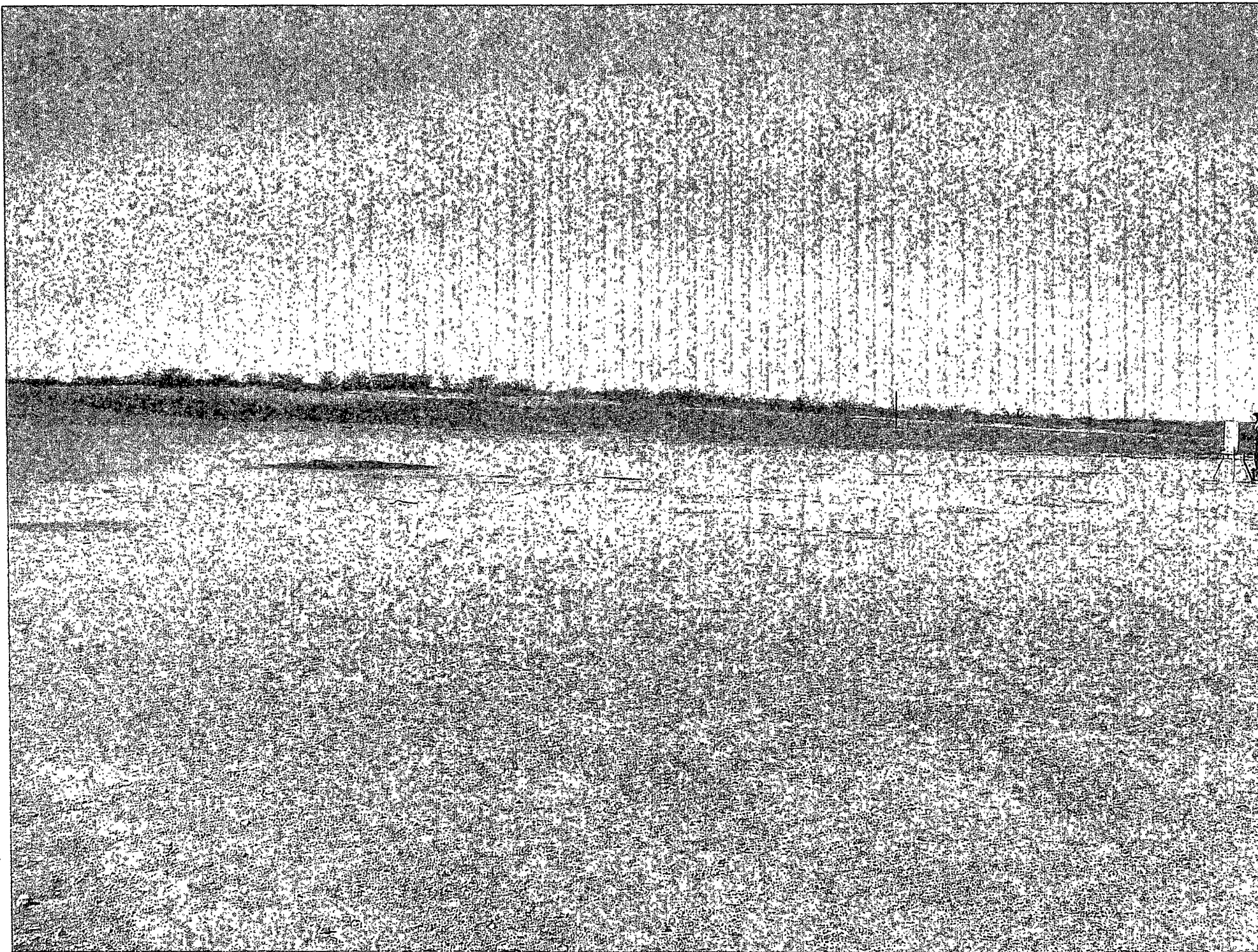
NOTES:


Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



TRACE ANALYSIS, INC.

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Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Eb Taylor
Talon LPE-Hobbs
318 E Taylor
Hobbs, NM, 88240

Report Date: January 28, 2009

Work Order: 9010718



Project Location: Eddy Co., NM
Project Name: Dos Hermanos 6 Fed. Com. #1
Project Number: MEWBOU034PIT

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
184110	Drill Cuttings	soil	2009-01-05	13:00	2009-01-07

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 32 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Dos Hermanos 6 Fed. Com. #1 were received by TraceAnalysis, Inc. on 2009-01-07 and assigned to work order 9010718. Samples for work order 9010718 were received intact at a temperature of 3.7 deg. C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	47699	2009-01-07 at 10:57	55804	2009-01-07 at 10:57
Chloride (Titration)	SM 4500-Cl B	47683	2009-01-07 at 09:22	55790	2009-01-07 at 15:05
SPLP Ag	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP As	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP Ba	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP Cd	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP Cl	E 300.0	48000	2009-01-20 at 15:00	56161	2009-01-20 at 15:59
SPLP Cr	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP Cyanide	SM 4500-CN C,E	48102	2009-01-23 at 14:09	56293	2009-01-23 at 17:00
SPLP Hg	S 7470A	47838	2009-01-14 at 10:54	55967	2009-01-14 at 12:36
SPLP PAH	S 8270C	47949	2009-01-16 at 15:00	56105	2009-01-19 at 14:49
SPLP Pb	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP PCB	S 8082	47987	2009-01-20 at 15:00	56156	2009-01-21 at 03:00
SPLP Se	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP U	S 6010B	47893	2009-01-16 at 10:18	56044	2009-01-16 at 11:19
SPLP Volatiles	S 8260B	47833	2009-01-13 at 12:00	55959	2009-01-13 at 12:00
TPH 418.1	E 418.1	47781	2009-01-12 at 09:30	55900	2009-01-12 at 11:36
TPH DRO	Mod. 8015B	47729	2009-01-08 at 15:30	55839	2009-01-08 at 16:47
TPH GRO	S 8015B	47728	2009-01-09 at 08:03	55836	2009-01-08 at 09:28

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 9010718 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: 184110 - Drill Cuttings

Laboratory: Midland
Analysis: BTEX
QC Batch: 55804
Prep Batch: 47699

Analytical Method: S 8021B
Date Analyzed: 2009-01-07
Sample Preparation: 2009-01-07

Prep Method: S 5035
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0510	mg/Kg	1	0.0100
Toluene		0.223	mg/Kg	1	0.0100
Ethylbenzene		0.132	mg/Kg	1	0.0100
Xylene		0.520	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	68 - 136.9
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	48.2 - 155

Sample: 184110 - Drill Cuttings

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 55790
Prep Batch: 47683

Analytical Method: SM 4500-Cl B
Date Analyzed: 2009-01-07
Sample Preparation: 2009-01-07

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2730	mg/Kg	50	4.00

Sample: 184110 - Drill Cuttings

Laboratory: Lubbock
Analysis: SPLP Cl
QC Batch: 56161
Prep Batch: 48000

Analytical Method: E 300.0
Date Analyzed: 2009-01-20
SPLP Extraction: 2009-01-16
Sample Preparation: 2009-01-20

Prep Method: SPLP 1312
Analyzed By: ER
Prepared By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
SPLP Chloride		203	mg/L	50	0.500

Sample: 184110 - Drill Cuttings

Laboratory:	Lubbock	Analytical Method:	SM 4500-CN C,E	Prep Method:	SPLP 1312
Analysis:	SPLP Cyanide	Date Analyzed:	2009-01-23	Analyzed By:	SS
QC Batch:	56293	SPLP Extraction:	2009-01-22	Prepared By:	SS
Prep Batch:	48102	Sample Preparation:	2009-01-23	Prepared By:	SS

Parameter	Flag	RL Result	Units	Dilution	RL
SPLP Cyanide		<0.0150	mg/Kg	1	0.0150

Sample: 184110 - Drill Cuttings

Laboratory:	Lubbock	Analytical Method:	S 8270C	Prep Method:	SPLP 1312
Analysis:	SPLP PAH	Date Analyzed:	2009-01-19	Analyzed By:	MN
QC Batch:	56105	SPLP Extraction:	2009-01-15	Prepared By:	MN
Prep Batch:	47949	Sample Preparation:	2009-01-16	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.000327	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.000209	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorobiphenyl		0.0470	mg/L	1	0.0800	59	37.4 - 123
Nitrobenzene-d5		0.0519	mg/L	1	0.0800	65	34.3 - 130
Terphenyl-d14		0.0547	mg/L	1	0.0800	68	10 - 252

Sample: 184110 - Drill Cuttings

Laboratory:	Lubbock	Analytical Method:	S 8082	Prep Method:	SPLP 1312
Analysis:	SPLP PCB	Date Analyzed:	2009-01-21	Analyzed By:	DS
QC Batch:	56156	SPLP Extraction:	2009-01-19	Prepared By:	DS
Prep Batch:	47987	Sample Preparation:	2009-01-20	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Total PCB		<0.000500	mg/L	1	0.000500
Aroclor 1016 (PCB-1016)		<0.000500	mg/L	1	0.000500
Aroclor 1221 (PCB-1221)		<0.000500	mg/L	1	0.000500
Aroclor 1232 (PCB-1232)		<0.000500	mg/L	1	0.000500
Aroclor 1242 (PCB-1242)		<0.000500	mg/L	1	0.000500
Aroclor 1248 (PCB-1248)		<0.000500	mg/L	1	0.000500
Aroclor 1254 (PCB-1254)		<0.000500	mg/L	1	0.000500
Aroclor 1260 (PCB-1260)		<0.000500	mg/L	1	0.000500
Aroclor 1268 (PCB-1268)		<0.000500	mg/L	1	0.000500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Deca chlorobiphenyl	¹	0.000664	mg/L	1	0.000500	133	10 - 128

Sample: 184110 - Drill Cuttings

Laboratory:	Lubbock	Analytical Method:	S 7470A	Prep Method:	N/A
Analysis:	SPLP Total 8 Metals	Date Analyzed:	2009-01-14	Analyzed By:	TP
QC Batch:	55967	Sample Preparation:	2009-01-14	Prepared By:	TP
Prep Batch:	47838				
Laboratory:	Lubbock	Analytical Method:	S 6010B	Prep Method:	SPLP 1312
Analysis:	SPLP Total 8 Metals	Date Analyzed:	2009-01-16	Analyzed By:	RR
QC Batch:	56044	SPLP Extraction:	2009-01-15	Prepared By:	KV
Prep Batch:	47893	Sample Preparation:	2009-01-16	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
SPLP Silver		<0.00300	mg/L	1	0.00300
SPLP Arsenic		<0.0100	mg/L	1	0.0100
SPLP Barium		0.281	mg/L	1	0.100
SPLP Cadmium		<0.00500	mg/L	1	0.00500
SPLP Chromium		<0.00500	mg/L	1	0.00500
SPLP Mercury		0.000982	mg/L	1	0.000200
SPLP Lead		<0.0100	mg/L	1	0.0100
SPLP Selenium		<0.0500	mg/L	1	0.0500

¹High surrogate recovery. Sample non-detect, result bias high.

Sample: 184110 - Drill Cuttings

Laboratory:	Lubbock	Analytical Method:	S 6010B	Prep Method:	SPLP 1312
Analysis:	SPLP U	Date Analyzed:	2009-01-16	Analyzed By:	RR
QC Batch:	56044	SPLP Extraction:	2009-01-15	Prepared By:	KV
Prep Batch:	47893	Sample Preparation:	2009-01-16	Prepared By:	KV

Parameter	Flag	RL Result	Units	Dilution	RL
SPLP U		<0.0500	mg/L	1	0.0500

Sample: 184110 - Drill Cuttings

Laboratory:	Lubbock	Analytical Method:	S 8260B	Prep Method:	SPLP 1312
Analysis:	SPLP Volatiles	Date Analyzed:	2009-01-13	Analyzed By:	KB
QC Batch:	55959	SPLP Extraction:	2009-01-13	Prepared By:	KB
Prep Batch:	47833	Sample Preparation:	2009-01-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Vinyl Chloride		<1.00	µg/L	1	1.00
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		6.82	µg/L	1	5.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
Benzene		1.84	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Toluene		25.4	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Ethylbenzene		13.4	µg/L	1	1.00
m,p-Xylene		38.8	µg/L	1	1.00
o-Xylene		14.2	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.2	µg/L	1	50.0	106	70 - 130
Toluene-d8		49.8	µg/L	1	50.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)		50.1	µg/L	1	50.0	100	70 - 130

Report Date: January 28, 2009
MEWBOU034PIT

Work Order: 9010718
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Sample: 184110 - Drill Cuttings

Laboratory: Lubbock
Analysis: TPH 418.1 Analytical Method: E 418.1 Prep Method: N/A
QC Batch: 55900 Date Analyzed: 2009-01-12 Analyzed By: CM
Prep Batch: 47781 Sample Preparation: 2009-01-12 Prepared By: CM

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		97.7	mg/Kg	1	10.0

Sample: 184110 - Drill Cuttings

Laboratory: Midland
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 55839 Date Analyzed: 2009-01-08 Analyzed By: AG
Prep Batch: 47729 Sample Preparation: 2008-01-08 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		124	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		109	mg/Kg	1	100	109	10 - 250.4

Sample: 184110 - Drill Cuttings

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 55836 Date Analyzed: 2009-01-08 Analyzed By: ME
Prep Batch: 47728 Sample Preparation: 2009-01-08 Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		37.4	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	1	1.00	104	67.5 - 135.2
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	63.8 - 141

Report Date: January 28, 2009
MEWBOU034PIT

Work Order: 9010718
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Eddy Co., NM

Method Blank (1) QC Batch: 55790

QC Batch: 55790
Prep Batch: 47683

Date Analyzed: 2009-01-07
QC Preparation: 2009-01-07

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.01	mg/Kg	4

Method Blank (1) QC Batch: 55804

QC Batch: 55804
Prep Batch: 47699

Date Analyzed: 2009-01-07
QC Preparation: 2009-01-07

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00580	mg/Kg	0.01
Toluene		<0.00470	mg/Kg	0.01
Ethylbenzene		<0.00530	mg/Kg	0.01
Xylene		<0.0136	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	48.3 - 132.5
4-Bromofluorobenzene (4-BFB)		0.968	mg/Kg	1	1.00	97	37.7 - 128.9

Method Blank (1) QC Batch: 55836

QC Batch: 55836
Prep Batch: 47728

Date Analyzed: 2009-01-08
QC Preparation: 2009-01-09

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		0.912	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.962	mg/Kg	1	1.00	96	39.2 - 135.2
4-Bromofluorobenzene (4-BFB)		0.916	mg/Kg	1	1.00	92	16.8 - 138.1

Method Blank (1) QC Batch: 55839

QC Batch: 55839
Prep Batch: 47729

Date Analyzed: 2009-01-08
QC Preparation: 2009-01-08

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
DRO		<15.8	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		71.6	mg/Kg	1	100	72	30.9 - 146.4

Method Blank (1) QC Batch: 55900

QC Batch: 55900 Date Analyzed: 2009-01-12 Analyzed By: CM
Prep Batch: 47781 QC Preparation: 2009-01-12 Prepared By: CM

Parameter	Flag	MDL Result	Units	RL
TRPHC		<5.28	mg/Kg	10

Method Blank (1) QC Batch: 55959

QC Batch: 55959 Date Analyzed: 2009-01-13 Analyzed By: KB
Prep Batch: 47833 QC Preparation: 2009-01-13 Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.177	µg/L	1
Dichlorodifluoromethane		<0.208	µg/L	1
Chloromethane (methyl chloride)		<0.134	µg/L	1
Vinyl Chloride		<0.135	µg/L	1
Bromomethane (methyl bromide)		<1.23	µg/L	5
Chloroethane		<0.182	µg/L	1
Trichlorofluoromethane		<0.0610	µg/L	1
Acetone		<5.50	µg/L	10
Iodomethane (methyl iodide)		<0.107	µg/L	5
Carbon Disulfide		0.0600	µg/L	1
Acrylonitrile		<0.0970	µg/L	1
2-Butanone (MEK)		<0.531	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.421	µg/L	5
2-Hexanone		<0.168	µg/L	5
trans 1,4-Dichloro-2-butene		<0.517	µg/L	10
1,1-Dichloroethene		<0.136	µg/L	1
Methylene chloride		<0.649	µg/L	5
MTBE		<0.123	µg/L	1
trans-1,2-Dichloroethene		<0.126	µg/L	1
1,1-Dichloroethane		<0.0600	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
cis-1,2-Dichloroethene		<0.151	µg/L	1
2,2-Dichloropropane		<0.180	µg/L	1
1,2-Dichloroethane (EDC)		<0.113	µg/L	1
Chloroform		<0.141	µg/L	1
1,1,1-Trichloroethane		<0.116	µg/L	1
1,1-Dichloropropene		<0.0540	µg/L	1
Benzene		<0.146	µg/L	1
Carbon Tetrachloride		<0.0790	µg/L	1
1,2-Dichloropropane		<0.111	µg/L	1
Trichloroethene (TCE)		<0.117	µg/L	1
Dibromomethane (methylene bromide)		<0.140	µg/L	1
Bromodichloromethane		<0.161	µg/L	1
2-Chloroethyl vinyl ether		<0.388	µg/L	5
cis-1,3-Dichloropropene		<0.0890	µg/L	1
trans-1,3-Dichloropropene		<0.0760	µg/L	1
Toluene		<0.0600	µg/L	1
1,1,2-Trichloroethane		<0.135	µg/L	1
1,3-Dichloropropane		<0.0990	µg/L	1
Dibromochloromethane		<0.0900	µg/L	1
1,2-Dibromoethane (EDB)		<0.0700	µg/L	1
Tetrachloroethene (PCE)		<0.270	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
1,1,1,2-Tetrachloroethane		<0.0990	µg/L	1
Ethylbenzene		0.0400	µg/L	1
m,p-Xylene		<0.0940	µg/L	1
Bromoform		<0.0570	µg/L	1
Styrene		<0.0910	µg/L	1
o-Xylene		<0.0960	µg/L	1
1,1,2,2-Tetrachloroethane		<0.125	µg/L	1
2-Chlorotoluene		0.0600	µg/L	1
1,2,3-Trichloropropane		<0.458	µg/L	1
Isopropylbenzene		<0.0850	µg/L	1
Bromobenzene		<0.106	µg/L	1
n-Propylbenzene		0.0800	µg/L	1
1,3,5-Trimethylbenzene		0.0700	µg/L	1
tert-Butylbenzene		<0.107	µg/L	1
1,2,4-Trimethylbenzene		<0.0990	µg/L	1
1,4-Dichlorobenzene (para)		<0.217	µg/L	1
sec-Butylbenzene		0.110	µg/L	1
1,3-Dichlorobenzene (meta)		0.0800	µg/L	1
p-Isopropyltoluene		0.120	µg/L	1
4-Chlorotoluene		<0.0940	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.100	µg/L	1
n-Butylbenzene		0.180	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
1,2-Dibromo-3-chloropropane		<0.690	µg/L	5
1,2,3-Trichlorobenzene		0.150	µg/L	5
1,2,4-Trichlorobenzene		<0.155	µg/L	5
Naphthalene		<0.594	µg/L	5
Hexachlorobutadiene		0.260	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.8	µg/L	1	50.0	108	70 - 130
Toluene-d8		49.6	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		49.6	µg/L	1	50.0	99	70 - 130

Method Blank (1) QC Batch: 55967

QC Batch: 55967 Date Analyzed: 2009-01-14 Analyzed By: TP
Prep Batch: 47838 QC Preparation: 2009-01-14 Prepared By: TP

Parameter	Flag	MDL Result	Units	RL
SPLP Mercury		<0.0000329	mg/L	0.0002

Method Blank (1) QC Batch: 56044

QC Batch: 56044 Date Analyzed: 2009-01-16 Analyzed By: RR
Prep Batch: 47893 QC Preparation: 2009-01-16 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
SPLP U		<0.0105	mg/L	0.05

Method Blank (1) QC Batch: 56044

QC Batch: 56044 Date Analyzed: 2009-01-16 Analyzed By: RR
Prep Batch: 47893 QC Preparation: 2009-01-16 Prepared By: KV

Parameter	Flag	MDL Result	Units	RL
SPLP Silver		<0.00210	mg/L	0.003
SPLP Arsenic		<0.00430	mg/L	0.01
SPLP Barium		<0.00170	mg/L	0.1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
SPLP Cadmium		<0.00140	mg/L	0.005
SPLP Chromium		<0.000900	mg/L	0.005
SPLP Lead		<0.00320	mg/L	0.01
SPLP Selenium		<0.0131	mg/L	0.05

Method Blank (1) QC Batch: 56105

QC Batch: 56105
Prep Batch: 47949

Date Analyzed: 2009-01-19
QC Preparation: 2009-01-16

Analyzed By: MN
Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000853	mg/L	0.0002
Acenaphthylene		<0.0000768	mg/L	0.0002
Acenaphthene		<0.000103	mg/L	0.0002
Dibenzofuran		<0.000200	mg/L	0.0002
Fluorene		<0.0000861	mg/L	0.0002
Anthracene		<0.000170	mg/L	0.0002
Phenanthrene		<0.0000884	mg/L	0.0002
Fluoranthene		<0.0000969	mg/L	0.0002
Pyrene		<0.0000855	mg/L	0.0002
Benzo(a)anthracene		<0.0000703	mg/L	0.0002
Chrysene		<0.000113	mg/L	0.0002
Benzo(b)fluoranthene		<0.000134	mg/L	0.0002
Benzo(k)fluoranthene		<0.000227	mg/L	0.0002
Benzo(a)pyrene		<0.000200	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.000253	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.000180	mg/L	0.0002
Benzo(g,h,i)perylene		<0.000158	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorobiphenyl		0.0458	mg/L	1	0.0800	57	10 - 146
Nitrobenzene-d5		0.0542	mg/L	1	0.0800	68	10 - 141
Terphenyl-d14		0.0528	mg/L	1	0.0800	66	10 - 266

Method Blank (1) QC Batch: 56156

QC Batch: 56156
Prep Batch: 47987

Date Analyzed: 2009-01-21
QC Preparation: 2009-01-20

Analyzed By: DS
Prepared By: DS

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Parameter	Flag	MDL Result	Units	RL
Total PCB		<0.000125	mg/L	0.0005
Aroclor 1016 (PCB-1016)		<0.000122	mg/L	0.0005
Aroclor 1221 (PCB-1221)		<0.000118	mg/L	0.0005
Aroclor 1232 (PCB-1232)		<0.0000459	mg/L	0.0005
Aroclor 1242 (PCB-1242)		<0.000125	mg/L	0.0005
Aroclor 1248 (PCB-1248)		<0.0000546	mg/L	0.0005
Aroclor 1254 (PCB-1254)		<0.0000569	mg/L	0.0005
Aroclor 1260 (PCB-1260)		<0.0000331	mg/L	0.0005
Aroclor 1268 (PCB-1268)		<0.0000282	mg/L	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Deca chlorobiphenyl		0.000557	mg/L	1	0.000500	111	10 - 128

Method Blank (1) QC Batch: 56293

QC Batch: 56293 Date Analyzed: 2009-01-23 Analyzed By: SS
Prep Batch: 48102 QC Preparation: 2009-01-23 Prepared By: SS

Parameter	Flag	MDL Result	Units	RL
SPLP Cyanide		<0.0148	mg/Kg	0.015

Laboratory Control Spike (LCS-1)

QC Batch: 55790 Date Analyzed: 2009-01-07 Analyzed By: AR
Prep Batch: 47683 QC Preparation: 2009-01-07 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.9	mg/Kg	1	100	<2.01	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.8	mg/Kg	1	100	<2.01	100	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 55804 Date Analyzed: 2009-01-07 Analyzed By: ME
Prep Batch: 47699 QC Preparation: 2009-01-07 Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.981	mg/Kg	1	1.00	<0.00580	98	73.3 - 116.6
Toluene	0.959	mg/Kg	1	1.00	<0.00470	96	78.6 - 115.1
Ethylbenzene	0.922	mg/Kg	1	1.00	<0.00530	92	77.4 - 114.9
Xylene	2.78	mg/Kg	1	3.00	<0.0136	93	78.2 - 114.7

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.02	mg/Kg	1	1.00	<0.00580	102	73.3 - 116.6	4	20
Toluene	1.00	mg/Kg	1	1.00	<0.00470	100	78.6 - 115.1	4	20
Ethylbenzene	0.994	mg/Kg	1	1.00	<0.00530	99	77.4 - 114.9	8	20
Xylene	3.01	mg/Kg	1	3.00	<0.0136	100	78.2 - 114.7	8	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)	0.998	1.05	mg/Kg	1	1.00	100	105	45 - 124.2
4-Bromofluorobenzene (4-BFB)	0.992	1.04	mg/Kg	1	1.00	99	104	47.2 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 55836
Prep Batch: 47728

Date Analyzed: 2009-01-08
QC Preparation: 2009-01-09

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.72	mg/Kg	1	10.0	<0.442	87	57.5 - 106.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.09	mg/Kg	1	10.0	<0.442	91	57.5 - 106.4	4	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)	1.05	1.05	mg/Kg	1	1.00	105	105	63.8 - 134.3
4-Bromofluorobenzene (4-BFB)	1.05	1.02	mg/Kg	1	1.00	105	102	53.3 - 123.6

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Laboratory Control Spike (LCS-1)

QC Batch: 55839
Prep Batch: 47729

Date Analyzed: 2009-01-08
QC Preparation: 2009-01-08

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	272	mg/Kg	1	250	<15.8	109	27.8 - 152.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	285	mg/Kg	1	250	<15.8	114	27.8 - 152.1	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
n-Triacontane	90.5	91.4	mg/Kg	1	100	90	91	38 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch: 55900
Prep Batch: 47781

Date Analyzed: 2009-01-12
QC Preparation: 2009-01-12

Analyzed By: CM
Prepared By: CM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	270	mg/Kg	1	250	<5.28	108	75.5 - 136

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	275	mg/Kg	1	250	<5.28	110	75.5 - 136	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 55959
Prep Batch: 47833

Date Analyzed: 2009-01-13
QC Preparation: 2009-01-13

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	51.8	µg/L	1	50.0	<0.136	104	70 - 130
Benzene	51.9	µg/L	1	50.0	<0.146	104	70 - 130

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Trichloroethene (TCE)	53.8	µg/L	1	50.0	<0.117	108	70 - 130
Toluene	52.2	µg/L	1	50.0	<0.0600	104	70 - 130
Chlorobenzene	49.3	µg/L	1	50.0	<0.0540	99	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethene	49.3	µg/L	1	50.0	<0.136	99	70 - 130	5	
Benzene	50.4	µg/L	1	50.0	<0.146	101	70 - 130	3	
Trichloroethene (TCE)	54.0	µg/L	1	50.0	<0.117	108	70 - 130	0	
Toluene	50.6	µg/L	1	50.0	<0.0600	101	70 - 130	3	
Chlorobenzene	48.1	µg/L	1	50.0	<0.0540	96	70 - 130	2	

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
Dibromofluoromethane	52.7	52.8	µg/L	1	50.0	105	106	70 - 130
Toluene-d8	49.9	49.4	µg/L	1	50.0	100	99	70 - 130
4-Bromofluorobenzene (4-BFB)	50.1	50.4	µg/L	1	50.0	100	101	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 55967
Prep Batch: 47838

Date Analyzed: 2009-01-14
QC Preparation: 2009-01-14

Analyzed By: TP
Prepared By: TP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Mercury	0.00101	mg/L	1	0.00100	<0.0000329	101	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Mercury	0.000923	mg/L	1	0.00100	<0.0000329	92	85 - 115	9	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 56044
Prep Batch: 47893

Date Analyzed: 2009-01-16
QC Preparation: 2009-01-16

Analyzed By: RR
Prepared By: KV

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP U	0.506	mg/L	1	0.500	<0.0105	101	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP U	0.529	mg/L	1	0.500	<0.0105	106	90 - 110	4	

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

Laboratory Control Spike (LCS-1)

QC Batch: 56044
Prep Batch: 47893

Date Analyzed: 2009-01-16
QC Preparation: 2009-01-16

Analyzed By: RR
Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Silver	0.115	mg/L	1	0.125	<0.00210	92	85 - 115
SPLP Arsenic	0.469	mg/L	1	0.500	<0.00430	94	85 - 115
SPLP Barium	0.966	mg/L	1	1.00	<0.00170	97	85 - 115
SPLP Cadmium	0.249	mg/L	1	0.250	<0.00140	100	85 - 115
SPLP Chromium	0.0870	mg/L	1	0.100	<0.000900	87	85 - 115
SPLP Lead	0.498	mg/L	1	0.500	<0.00320	100	85 - 115
SPLP Selenium	0.460	mg/L	1	0.500	<0.0131	92	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Silver	0.116	mg/L	1	0.125	<0.00210	93	85 - 115	1	20
SPLP Arsenic	0.485	mg/L	1	0.500	<0.00430	97	85 - 115	3	20
SPLP Barium	0.993	mg/L	1	1.00	<0.00170	99	85 - 115	3	20
SPLP Cadmium	0.258	mg/L	1	0.250	<0.00140	103	85 - 115	4	20
SPLP Chromium	0.0900	mg/L	1	0.100	<0.000900	90	85 - 115	3	20
SPLP Lead	0.514	mg/L	1	0.500	<0.00320	103	85 - 115	3	20
SPLP Selenium	0.467	mg/L	1	0.500	<0.0131	93	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 56105
Prep Batch: 47949

Date Analyzed: 2009-01-19
QC Preparation: 2009-01-16

Analyzed By: MN
Prepared By: MN

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0493	mg/L	1	0.0800	<0.0000853	62	10 - 141
Acenaphthylene	0.0591	mg/L	1	0.0800	<0.0000768	74	10 - 152
Acenaphthene	0.0580	mg/L	1	0.0800	<0.000103	72	10 - 151
Dibenzofuran	0.0519	mg/L	1	0.0800	<0.000200	65	10 - 148
Fluorene	0.0609	mg/L	1	0.0800	<0.0000861	76	10 - 172
Anthracene	0.0636	mg/L	1	0.0800	<0.000170	80	19.6 - 172
Phenanthrene	0.0623	mg/L	1	0.0800	<0.0000884	78	22.5 - 172
Fluoranthene	0.0644	mg/L	1	0.0800	<0.0000969	80	17.3 - 187
Pyrene	0.0682	mg/L	1	0.0800	<0.0000855	85	14.9 - 199
Benzo(a)anthracene	0.0636	mg/L	1	0.0800	<0.0000703	80	19.4 - 185
Chrysene	0.0668	mg/L	1	0.0800	<0.000113	84	18.4 - 188
Benzo(b)fluoranthene	0.0632	mg/L	1	0.0800	<0.000134	79	10 - 193
Benzo(k)fluoranthene	0.0662	mg/L	1	0.0800	<0.000227	83	27.8 - 196
Benzo(a)pyrene	0.0720	mg/L	1	0.0800	<0.000200	90	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0623	mg/L	1	0.0800	<0.000253	78	10 - 198
Dibenzo(a,h)anthracene	0.0612	mg/L	1	0.0800	<0.000180	76	10 - 172
Benzo(g,h,i)perylene	0.0705	mg/L	1	0.0800	<0.000158	88	10 - 186

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0481	mg/L	1	0.0800	<0.0000853	60	10 - 141	2	20
Acenaphthylene	0.0580	mg/L	1	0.0800	<0.0000768	72	10 - 152	2	20
Acenaphthene	0.0567	mg/L	1	0.0800	<0.000103	71	10 - 151	2	20
Dibenzofuran	0.0510	mg/L	1	0.0800	<0.000200	64	10 - 148	2	20
Fluorene	0.0601	mg/L	1	0.0800	<0.0000861	75	10 - 172	1	20
Anthracene	0.0625	mg/L	1	0.0800	<0.000170	78	19.6 - 172	2	20
Phenanthrene	0.0606	mg/L	1	0.0800	<0.0000884	76	22.5 - 172	3	20
Fluoranthene	0.0642	mg/L	1	0.0800	<0.0000969	80	17.3 - 187	0	20
Pyrene	0.0686	mg/L	1	0.0800	<0.0000855	86	14.9 - 199	1	20
Benzo(a)anthracene	0.0634	mg/L	1	0.0800	<0.0000703	79	19.4 - 185	0	20
Chrysene	0.0660	mg/L	1	0.0800	<0.000113	82	18.4 - 188	1	20
Benzo(b)fluoranthene	0.0631	mg/L	1	0.0800	<0.000134	79	10 - 193	0	20
Benzo(k)fluoranthene	0.0656	mg/L	1	0.0800	<0.000227	82	27.8 - 196	1	20
Benzo(a)pyrene	0.0702	mg/L	1	0.0800	<0.000200	88	12.4 - 205	2	20
Indeno(1,2,3-cd)pyrene	0.0618	mg/L	1	0.0800	<0.000253	77	10 - 198	1	20
Dibenzo(a,h)anthracene	0.0601	mg/L	1	0.0800	<0.000180	75	10 - 172	2	20
Benzo(g,h,i)perylene	0.0699	mg/L	1	0.0800	<0.000158	87	10 - 186	1	20

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

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorobiphenyl	0.0485	0.0473	mg/L	1	0.0800	61	59	10 - 165
Nitrobenzene-d5	0.0547	0.0530	mg/L	1	0.0800	68	66	10 - 157
Terphenyl-d14	0.0678	0.0685	mg/L	1	0.0800	85	86	10 - 220

Laboratory Control Spike (LCS-1)

QC Batch: 56156
Prep Batch: 47987

Date Analyzed: 2009-01-21
QC Preparation: 2009-01-20

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Aroclor 1260 (PCB-1260)	0.00208	mg/L	1	0.00200	<0.0000331	104	10 - 128

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Aroclor 1260 (PCB-1260)	0.00214	mg/L	1	0.00200	<0.0000331	107	10 - 128	3	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
Deca chlorobiphenyl	0.000559	0.000560	mg/L	1	0.000500	112	112	10 - 128

Laboratory Control Spike (LCS-1)

QC Batch: 56161
Prep Batch: 48000

Date Analyzed: 2009-01-20
QC Preparation: 2009-01-20

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Chloride	11.8	mg/L	1	12.5	<0.137	94	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Chloride	12.0	mg/L	1	12.5	<0.137	96	90 - 110	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 56293
Prep Batch: 48102

Date Analyzed: 2009-01-23
QC Preparation: 2009-01-23

Analyzed By: SS
Prepared By: SS

Report Date: January 28, 2009
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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Cyanide	11.4	mg/Kg	1	12.0	<0.0148	95	80 - 120

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Cyanide	11.5	mg/Kg	1	12.0	<0.0148	96	80 - 120	1	20

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

Matrix Spike (MS-1) Spiked Sample: 184074

QC Batch: 55790
Prep Batch: 47683

Date Analyzed: 2009-01-07
QC Preparation: 2009-01-07

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5200	mg/Kg	50	5000	124	102	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5130	mg/Kg	50	5000	124	100	85 - 115	1	20

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

Matrix Spike (MS-1) Spiked Sample: 184110

QC Batch: 55804
Prep Batch: 47699

Date Analyzed: 2009-01-07
QC Preparation: 2009-01-07

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.02	mg/Kg	1	1.00	0.051	97	62.2 - 134.3
Toluene	1.25	mg/Kg	1	1.00	0.2229	103	62.6 - 145.4
Ethylbenzene	1.13	mg/Kg	1	1.00	0.1325	100	64.6 - 146.4
Xylene	3.67	mg/Kg	1	3.00	0.5205	105	64.3 - 148.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.01	mg/Kg	1	1.00	0.051	96	62.2 - 134.3	1	20
Toluene	1.28	mg/Kg	1	1.00	0.2229	106	62.6 - 145.4	2	20
Ethylbenzene	1.14	mg/Kg	1	1.00	0.1325	101	64.6 - 146.4	1	20
Xylene	3.67	mg/Kg	1	3.00	0.5205	105	64.3 - 148.8	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.980	0.952	mg/Kg	1	1	98	95	38.8 - 127.5
4-Bromofluorobenzene (4-BFB)	1.07	1.06	mg/Kg	1	1	107	106	49.3 - 142.4

Matrix Spike (MS-1) Spiked Sample: 184088

QC Batch: 55836 Date Analyzed: 2009-01-08 Analyzed By: ME
Prep Batch: 47728 QC Preparation: 2009-01-09 Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	10.7	mg/Kg	1	10.0	1.9377	88	10 - 139.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	10.0	mg/Kg	1	10.0	1.9377	81	10 - 139.3	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.00	0.964	mg/Kg	1	1	100	96	21.3 - 119
4-Bromofluorobenzene (4-BFB)	1.05	1.03	mg/Kg	1	1	105	103	52.5 - 154

Matrix Spike (MS-1) Spiked Sample: 184088

QC Batch: 55839 Date Analyzed: 2009-01-08 Analyzed By: AG
Prep Batch: 47729 QC Preparation: 2009-01-08 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	282	mg/Kg	1	250	<15.8	113	18 - 179.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	269	mg/Kg	1	250	<15.8	108	18 - 179.5	5	20

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

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	83.4	82.9	mg/Kg	1	100	83	83	34.1 - 158

Matrix Spike (MS-1) Spiked Sample: 184122

QC Batch: 55900
Prep Batch: 47781

Date Analyzed: 2009-01-12
QC Preparation: 2009-01-12

Analyzed By: CM
Prepared By: CM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	272	mg/Kg	1	250	<5.28	109	10 - 354

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	277	mg/Kg	1	250	<5.28	111	10 - 354	2	20

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

Matrix Spike (MS-1) Spiked Sample: 184110

QC Batch: 55959
Prep Batch: 47833

Date Analyzed: 2009-01-13
QC Preparation: 2009-01-13

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	52.4	µg/L	1	50.0	<0.136	105	70 - 130
Benzene	54.0	µg/L	1	50.0	1.84	104	70 - 130
Trichloroethene (TCE)	88.6	µg/L	1	50.0	<0.117	177	70 - 130
Toluene	75.8	µg/L	1	50.0	25.4	101	70 - 130
Chlorobenzene	49.8	µg/L	1	50.0	<0.0540	100	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethene	49.3	µg/L	1	50.0	<0.136	99	70 - 130	6	
Benzene	52.0	µg/L	1	50.0	1.84	100	70 - 130	4	
Trichloroethene (TCE)	86.2	µg/L	1	50.0	<0.117	172	70 - 130	3	

continued ...

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. RPD within

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	73.6	µg/L	1	50.0	25.4	96	70 - 130	3	
Chlorobenzene	47.5	µg/L	1	50.0	<0.0540	95	70 - 130	5	

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	53.8	52.3	µg/L	1	50	108	105	70 - 130
Toluene-d8	50.8	49.8	µg/L	1	50	102	100	70 - 130
4-Bromofluorobenzene (4-BFB)	51.4	50.5	µg/L	1	50	103	101	70 - 130

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 55967
Prep Batch: 47838

Date Analyzed: 2009-01-14
QC Preparation: 2009-01-14

Analyzed By: TP
Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Mercury	0.00197	mg/L	1	0.00100	0.000982	99	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Mercury	0.00196	mg/L	1	0.00100	0.000982	98	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 184110

QC Batch: 56044
Prep Batch: 47893

Date Analyzed: 2009-01-16
QC Preparation: 2009-01-16

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP U	0.536	mg/L	1	0.500	<0.0105	107	90 - 110

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP U	0.466	mg/L	1	0.500	<0.0105	93	90 - 110	14	

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

RPD limits.

Matrix Spike (MS-1) Spiked Sample: 184110

QC Batch: 56044
Prep Batch: 47893

Date Analyzed: 2009-01-16
QC Preparation: 2009-01-16

Analyzed By: RR
Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Silver	0.114	mg/L	1	0.125	<0.00210	91	75 - 125
SPLP Arsenic	0.490	mg/L	1	0.500	<0.00430	98	75 - 125
SPLP Barium	1.23	mg/L	1	1.00	0.281	95	75 - 125
SPLP Cadmium	0.247	mg/L	1	0.250	<0.00140	99	75 - 125
SPLP Chromium	0.0900	mg/L	1	0.100	0.003	87	75 - 125
SPLP Lead	0.484	mg/L	1	0.500	<0.00320	97	75 - 125
SPLP Selenium	0.483	mg/L	1	0.500	<0.0131	97	75 - 125

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Silver	0.115	mg/L	1	0.125	<0.00210	92	75 - 125	1	20
SPLP Arsenic	0.489	mg/L	1	0.500	<0.00430	98	75 - 125	0	20
SPLP Barium	1.24	mg/L	1	1.00	0.281	96	75 - 125	1	20
SPLP Cadmium	0.247	mg/L	1	0.250	<0.00140	99	75 - 125	0	20
SPLP Chromium	0.0900	mg/L	1	0.100	0.003	87	75 - 125	0	20
SPLP Lead	0.483	mg/L	1	0.500	<0.00320	97	75 - 125	0	20
SPLP Selenium	0.481	mg/L	1	0.500	<0.0131	96	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 185032

QC Batch: 56156
Prep Batch: 47987

Date Analyzed: 2009-01-21
QC Preparation: 2009-01-20

Analyzed By: DS
Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Aroclor 1260 (PCB-1260)	0.00169	mg/L	1	0.00200	<0.0000331	84	10 - 128

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Aroclor 1260 (PCB-1260)	0.00166	mg/L	1	0.00200	<0.0000331	83	10 - 128	2	20

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

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Deca chlorobiphenyl	^{4 5} 0.000710	0.000709	mg/L	1	0.0005	142	142	10 - 128

Matrix Spike (MS-1) Spiked Sample: 184569

QC Batch: 56161
Prep Batch: 48000

Date Analyzed: 2009-01-20
QC Preparation: 2009-01-20

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Chloride	⁶ 2190	mg/L	50	625	280	306	49.8 - 149

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Chloride	⁷ 868	mg/L	50	625	280	94	49.8 - 149	86	20

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

Matrix Spike (MS-1) Spiked Sample: 184110

QC Batch: 56293
Prep Batch: 48102

Date Analyzed: 2009-01-23
QC Preparation: 2009-01-23

Analyzed By: SS
Prepared By: SS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
SPLP Cyanide	5.10	mg/Kg	1	12.0	<0.0148	42	80 - 120

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
SPLP Cyanide	4.84	mg/Kg	1	12.0	<0.0148	40	80 - 120	5	20

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

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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

Standard (ICV-1)

QC Batch: 55790

Date Analyzed: 2009-01-07

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2009-01-07

Standard (CCV-1)

QC Batch: 55790

Date Analyzed: 2009-01-07

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.8	99	85 - 115	2009-01-07

Standard (ICV-1)

QC Batch: 55804

Date Analyzed: 2009-01-07

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0958	96	85 - 115	2009-01-07
Toluene		mg/Kg	0.100	0.0941	94	85 - 115	2009-01-07
Ethylbenzene		mg/Kg	0.100	0.0903	90	85 - 115	2009-01-07
Xylene		mg/Kg	0.300	0.274	91	85 - 115	2009-01-07

Standard (CCV-1)

QC Batch: 55804

Date Analyzed: 2009-01-07

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0936	94	85 - 115	2009-01-07
Toluene		mg/Kg	0.100	0.0936	94	85 - 115	2009-01-07
Ethylbenzene		mg/Kg	0.100	0.0910	91	85 - 115	2009-01-07
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2009-01-07

Standard (ICV-1)

QC Batch: 55836

Date Analyzed: 2009-01-08

Analyzed By: ME

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Param	Flag	Units	ICVs True Conc.	ICVs- Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.14	114	85 - 115	2009-01-08

Standard (CCV-1)

QC Batch: 55836

Date Analyzed: 2009-01-08

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.08	108	85 - 115	2009-01-08

Standard (CCV-1)

QC Batch: 55839

Date Analyzed: 2009-01-08

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	269	108	85 - 115	2009-01-08

Standard (CCV-2)

QC Batch: 55839

Date Analyzed: 2009-01-08

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	259	104	85 - 115	2009-01-08

Standard (ICV-1)

QC Batch: 55900

Date Analyzed: 2009-01-12

Analyzed By: CM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	113	113	80 - 120	2009-01-12

Standard (CCV-1)

QC Batch: 55900

Date Analyzed: 2009-01-12

Analyzed By: CM

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	96.2	96	80 - 120	2009-01-12

Standard (CCV-1)

QC Batch: 55959

Date Analyzed: 2009-01-13

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	39.8	80	80 - 120	2009-01-13
1,1-Dichloroethene		µg/L	50.0	48.2	96	80 - 120	2009-01-13
Chloroform		µg/L	50.0	51.8	104	80 - 120	2009-01-13
1,2-Dichloropropane		µg/L	50.0	48.2	96	80 - 120	2009-01-13
Toluene		µg/L	50.0	50.1	100	80 - 120	2009-01-13
Chlorobenzene		µg/L	50.0	47.0	94	80 - 120	2009-01-13
Ethylbenzene		µg/L	50.0	48.0	96	80 - 120	2009-01-13

Standard (ICV-1)

QC Batch: 55967

Date Analyzed: 2009-01-14

Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Mercury		mg/L	0.00100	0.000964	96	90 - 110	2009-01-14

Standard (CCV-1)

QC Batch: 55967

Date Analyzed: 2009-01-14

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Mercury		mg/L	0.00100	0.000947	95	90 - 110	2009-01-14

Standard (ICV-1)

QC Batch: 56044

Date Analyzed: 2009-01-16

Analyzed By: RR

Report Date: January 28, 2009
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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP U		mg/L	1.00	0.996	100	90 - 110	2009-01-16

Standard (ICV-1)

QC Batch: 56044

Date Analyzed: 2009-01-16

Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Silver		mg/L	0.125	0.123	98	90 - 110	2009-01-16
SPLP Arsenic		mg/L	1.00	0.992	99	90 - 110	2009-01-16
SPLP Barium		mg/L	1.00	1.02	102	90 - 110	2009-01-16
SPLP Cadmium		mg/L	1.00	1.03	103	90 - 110	2009-01-16
SPLP Chromium		mg/L	1.00	1.02	102	90 - 110	2009-01-16
SPLP Lead		mg/L	1.00	0.973	97	90 - 110	2009-01-16
SPLP Selenium		mg/L	1.00	0.997	100	90 - 110	2009-01-16

Standard (CCV-1)

QC Batch: 56044

Date Analyzed: 2009-01-16

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP U		mg/L	1.00	1.01	101	90 - 110	2009-01-16

Standard (CCV-1)

QC Batch: 56044

Date Analyzed: 2009-01-16

Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Silver		mg/L	0.125	0.124	99	90 - 110	2009-01-16
SPLP Arsenic		mg/L	1.00	0.992	99	90 - 110	2009-01-16
SPLP Barium		mg/L	1.00	1.04	104	90 - 110	2009-01-16
SPLP Cadmium		mg/L	1.00	1.01	101	90 - 110	2009-01-16
SPLP Chromium		mg/L	1.00	1.03	103	90 - 110	2009-01-16
SPLP Lead		mg/L	1.00	0.986	99	90 - 110	2009-01-16
SPLP Selenium		mg/L	1.00	1.00	100	90 - 110	2009-01-16

Standard (CCV-1)

QC Batch: 56105

Date Analyzed: 2009-01-19

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	60.4	101	80 - 120	2009-01-19
Acenaphthylene		mg/L	60.0	60.4	101	80 - 120	2009-01-19
Acenaphthene		mg/L	60.0	61.2	102	80 - 120	2009-01-19
Dibenzofuran		mg/L	60.0	63.4	106	80 - 120	2009-01-19
Fluorene		mg/L	60.0	67.6	113	80 - 120	2009-01-19
Anthracene		mg/L	60.0	61.9	103	80 - 120	2009-01-19
Phenanthrene		mg/L	60.0	59.8	100	80 - 120	2009-01-19
Fluoranthene		mg/L	60.0	58.1	97	80 - 120	2009-01-19
Pyrene		mg/L	60.0	62.2	104	80 - 120	2009-01-19
Benzo(a)anthracene		mg/L	60.0	57.5	96	80 - 120	2009-01-19
Chrysene		mg/L	60.0	60.2	100	80 - 120	2009-01-19
Benzo(b)fluoranthene		mg/L	60.0	58.6	98	80 - 120	2009-01-19
Benzo(k)fluoranthene		mg/L	60.0	59.1	98	80 - 120	2009-01-19
Benzo(a)pyrene		mg/L	60.0	64.0	107	80 - 120	2009-01-19
Indeno(1,2,3-cd)pyrene		mg/L	60.0	57.7	96	80 - 120	2009-01-19
Dibenzo(a,h)anthracene		mg/L	60.0	58.2	97	80 - 120	2009-01-19
Benzo(g,h,i)perylene		mg/L	60.0	64.5	108	80 - 120	2009-01-19

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorobiphenyl		56.0	mg/L	1	60.0	93	80 - 120
Nitrobenzene-d5		66.5	mg/L	1	60.0	111	80 - 120
Terphenyl-d14		59.4	mg/L	1	60.0	99	80 - 120

Standard (ICV-1)

QC Batch: 56156

Date Analyzed: 2009-01-21

Analyzed By: DS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Aroclor 1242 (PCB-1242)		mg/L	0.400	0.396	99	85 - 115	2009-01-21
Aroclor 1254 (PCB-1254)		mg/L	0.400	0.366	92	85 - 115	2009-01-21
Aroclor 1260 (PCB-1260)		mg/L	0.400	0.414	104	85 - 115	2009-01-21

Standard (CCV-1)

QC Batch: 56156

Date Analyzed: 2009-01-21

Analyzed By: DS

Report Date: January 28, 2009
MEWBOU034PIT

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Aroclor 1242 (PCB-1242)		mg/L	0.400	0.402	100	85 - 115	2009-01-21
Aroclor 1254 (PCB-1254)		mg/L	0.400	0.357	89	85 - 115	2009-01-21
Aroclor 1260 (PCB-1260)		mg/L	0.400	0.417	104	85 - 115	2009-01-21

Standard (CCV-1)

QC Batch: 56161

Date Analyzed: 2009-01-20

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Chloride		mg/L	12.5	11.7	94	90 - 110	2009-01-20

Standard (CCV-2)

QC Batch: 56161

Date Analyzed: 2009-01-20

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Chloride		mg/L	12.5	11.7	94	90 - 110	2009-01-20

Standard (ICV-1)

QC Batch: 56293

Date Analyzed: 2009-01-23

Analyzed By: SS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Cyanide		mg/Kg	0.120	<0.0148	0	80 - 120	2009-01-23

Standard (CCV-1)

QC Batch: 56293

Date Analyzed: 2009-01-23

Analyzed By: SS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Cyanide		mg/Kg	0.120	<0.0148	0	80 - 120	2009-01-23

