TALON LPE
"All the Pieces"

October 27,2008

30-015-36214

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

JAN 02 2009
OCD-ARTESIA

RE: **Request for closure of the Crow Flats 28 Federal #1 pit.**

In July of 2008 Talon/LPE was contracted to perform the pit closure activities at the Crow Flats 28 Federal #1, API# 30-015-36214, Unit D Sec 28-T16S-R28E, in Eddy county New Mexico for Mewbourne Oil Company. The C-144 for this pit closure was submitted to Mike Bratcher on July 30th 2008 and verbally approved on July 30, 2008. The C-144 was signed and dated on August 12th 2008.

Due to the depth of groundwater (<fifty) the contents of this pit were excavated and hauled to Lea Land Disposal Facility (permit number WM-01-035). Copies of the manifests are on file at the Talon/LPE office located at 318 E Taylor Street in Hobbs New Mexico. Once all contents were excavated the pit floor was sampled by Shelly Tucker with Talon/LPE on August 7, 2008 in compliance with Subsection F of 19.15.17.13.NMAC and submitted to Trace Analysis for official analytical results. The analytical results determined that the pit floor was below New Mexico Oil Conservation Division (NMOCD) levels for closure (see attached analytical). With that determination the pit was backfilled. Upon completion of backfill, the area was seeded with BLM #2 seed mixture and contoured to promote drainage and re-vegetation.

After reviewing the attached documents and analysis by the NMOCD Talon/LPE, and Mewbourne Oil Company we ask that this pit be considered closed.

Sincerely,

Eb Taylor
New Mexico Division Manager
Talon/LPE

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

AUSTIN
3003 Tom Gary Cove
Building C-100
Round Rock, Texas 78664
Phone 512.989.3420
Fax 512.989.3487

MIDLAND
#9 East Industrial Loop
Midland, Texas 79707
Phone 432.522.2133
Fax 432.522.2180

NEW BRAUNFELS
707 N. Walnut Ave.
Suite 209
New Braunfels, Texas 78130
Phone 210.579.0255
Fax 210.568.219

TULSA
9906 East 43rd Street, Ste. G
Tulsa, OK 74146
Phone 918.742.0877
Fax 918.742.0878

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.426
Fax 505.393.4658

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
EMERGENCY RESPONSE

Toll Free: 866.742.0742
www.talonlpe.com

Accepted for record
NMOCD
JAN 07 2009

C-144 Final Closure Report Closure Completion Date 8/15/08
Permit Number N/A

...obs, NM 88240
...venue, Artesia, NM 88210
...Brazos Road, Aztec, NM 87410
...IV
...0 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

JUL 30 2008
OCD-ARTESIA

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 CROW FLATS 28 FEDERAL NO. 1
API Number 30-015-36214 OCD Permit Number:
U/L or Qtr/Qtr D Section 28 Township 16 S Range 28 E County EDDY
Center of Proposed Design Latitude N32° 53' 57 2" Longitude W104° 11' 05.0" NAD: ☒ 1927 ☐ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☒ Lined ☐ Unlined Liner type: Thickness 12 mil ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams. ☒ Welded ☐ Factory ☐ Other Volume: 15000 bbl Dimensions. L 125 x W 120 x D 6

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

ENTERED

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.

n/a

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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

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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	☐ Yes ☐ 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	☐ Yes ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ 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

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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: _____

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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 H_2S, 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

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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

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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

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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): CHARLES MARTIN Title Engineer

Signature: Charles L. Martin Date: 7/29/2008

e-mail address: cmartin@mewbourne.com Telephone (575) 393-5905

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

OCD Representative Signature: Signed By Mike Bratcher **Approval Date:** AUG 12 2008

Title: Field Supervisor **OCD Permit Number:** N/A

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.

☒ **Closure Completion Date:** 8/15/08

22.
Closure Method:

☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

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

Instructions: Please indentify 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.***

☐ Proof of Closure Notice (surface owner and division)

☐ Proof of Deed Notice (required for on-site closure) N/A

☐ Plot Plan (for on-site closures and temporary pits) N/A

☐ Confirmation Sampling Analytical Results (if applicable)

☐ Waste Material Sampling Analytical Results (required for on-site closure) N/A

☐ Disposal Facility Name and Permit Number

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD ☐1927 ☐ 1983

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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 L. Martin Date: 12-29-08

e-mail address CMartin@Mewbourne.com Telephone: 575 393-5905

Accepted for record
NMOCD
JAN 07 2009

July 14, 2008

Mike Bratcher
NMOCD District 2 Office
1301 W. Grand
Artesia, New Mexico 88210

RE: **Crow Flats 28 Federal Com 001H** – Temporary Pit Closure Request
API: 30-015-36214
Unit D Sec 28–T16S-R28E
400' FNL & 1300' FEL

Site Ranking Score: 20
Depth to Ground Water: -50'
100 Year Flood Plain: No
Potash Area: No per R-111P

Surface Owner: Bureau of Land Management
Analytical Testing: Chlorides, BTEX, TPH, GRO, DRO
Primary Land Use: Ranching and Oil & Gas Production

NOTE: THIS TEMPORARY PIT WAS ORIGIANLLY PERMITTED AND DRILLED UNDER PIT RULE 50

Pursuant to Rule 19.15.17.10 NMAC (a/k/a Pit Rule 17) of the New Mexico Oil Conservation District of the State of New Mexico regulatory requirement for temporary pit closure, please accept the following documentation for request of final closure of the temporary pit for the aforementioned location.

Talon/LPE (Talon) has been contracted by Mewbourne Oil Company (Mewbourne) to perform pit closure activities on the aforementioned location. Talon/LPE and Mewbourne wishes to purpose the following hybrid closure procedure for the aforementioned temporary pit.

- **Waste Removal:** In compliance with 19.15.17.13 NMAC, Talon will excavate all drill cuttings from the reserve pit and transport to Lea Land Disposal Facility, Permit No. WM-1-035. The approximate amount of material to be excavated is 2900 yards of brine saturated cuttings. Upon excavation of the reserve pit all applicable soil testing will be performed pursuant to Pit Rule 17 to verify that the limits, which have been set by the NMOCD, have been obtained. A copy of the analytical data will be attached to the Final Report.

- **Sampling Plan:** In compliance with Subsection F of 19.15.17.13 NMAC a five point composite sample will be taken from the floor of the excavation and submitted to Trace Analysis for official analytical results.

- **Soil Cover Design:** In compliance with Subsection H of 19.15.17.13 NMAC the excavated pit area will be backfilled with native material and one foot of topsoil.

- **Re-vegetation Plan:** In compliance with Subsection I of 19.15.17.13 NMAC the area will be re-seeded with BLM seed mixture No. 2 to re-establish native vegetation.

- **Site Reclamation Plan:** In compliance with Subsection I of 19.15.17.13 NMAC the impacted and disturbed area will be re-contoured to surrounding terrain.

Please review the attached documentation and you may contact Charles Martin of Mewbourne Oil Company at 575-441-2081 or Shelly J. Tucker of Talon/LPE at 575-706-7234 with any questions or concerns.

Sincerely,

Shelly J. Tucker
Project Manager
Talon/LPE

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
8808 Camp Bowie Blvd West, Suite 180 Ft Worth, Texas 76116 817•201•5260 FAX 817•560•4336
E-Mail lab@traceanalysis.com

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

Shelly Tucker
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: August 13, 2008

Work Order: 8081101

Project Location: Eddy County, NM
Project Name: Crow Flats 28 Fed. #1
Project Number: Crow Flats 28 Fed. #1

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
170133	Floor Comp.	soil	2008-08-07	12:00	2008-08-08

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

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 Crow Flats 28 Fed. #1 were received by TraceAnalysis, Inc. on 2008-08-08 and assigned to work order 8081101. Samples for work order 8081101 were received intact at a temperature of 21.9 deg. C.

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

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH 418 1	E 418.1
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8081101 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: 170133 - Floor Comp.

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	51353	Date Analyzed:	2008-08-11	Analyzed By:	ER
Prep Batch:	44041	Sample Preparation:	2008-08-11	Prepared By:	ER

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	1.63	mg/Kg	1	1.00	163	59 - 136.1
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	1.00	161	54.4 - 176.2

Sample: 170133 - Floor Comp.

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	51342	Date Analyzed:	2008-08-12	Analyzed By:	RD
Prep Batch:	44031	Sample Preparation:	2008-08-11	Prepared By:	RD

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**232**	mg/Kg	50	1.00

Sample: 170133 - Floor Comp.

Laboratory:	Lubbock				
Analysis:	TPH 418.1	Analytical Method:	E 418.1	Prep Method:	N/A
QC Batch:	51381	Date Analyzed:	2008-08-13	Analyzed By:	MN
Prep Batch:	44062	Sample Preparation:	2008-08-13	Prepared By:	MN

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		**49.5**	mg/Kg	1	10.0

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

Sample: 170133 - Floor Comp.

Laboratory:	Lubbock				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	51348	Date Analyzed:	2008-08-11	Analyzed By:	MN
Prep Batch:	44037	Sample Preparation:	2008-08-11	Prepared By:	MN

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		126	mg/Kg	1	100	126	49.5 - 185

Sample: 170133 - Floor Comp.

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	51355	Date Analyzed:	2008-08-11	Analyzed By:	ER
Prep Batch:	44041	Sample Preparation:	2008-08-11	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1 00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	1.77	mg/Kg	1	1.00	177	55.3 - 161.9
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	1.00	182	45.6 - 214.7

Method Blank (1) QC Batch: 51342

QC Batch:	51342	Date Analyzed:	2008-08-12	Analyzed By:	RD
Prep Batch:	44031	QC Preparation:	2008-08-11	Prepared By:	RD

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.353	mg/Kg	1

[2]High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 51348

QC Batch:	51348	Date Analyzed:	2008-08-11	Analyzed By:	MN
Prep Batch:	44037	QC Preparation:	2008-08-11	Prepared By:	MN

Parameter	Flag	MDL Result	Units	RL
DRO		<6.77	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		79.8	mg/Kg	1	100	80	49.5 - 185

Method Blank (1) QC Batch: 51353

QC Batch:	51353	Date Analyzed:	2008-08-11	Analyzed By:	ER
Prep Batch:	44041	QC Preparation:	2008-08-11	Prepared By:	ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00347	mg/Kg	0.01
Toluene		<0.00525	mg/Kg	0.01
Ethylbenzene		<0.00607	mg/Kg	0 01
Xylene		<0.00724	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.972	mg/Kg	1	1.00	97	69.3 - 110.2
4-Bromofluorobenzene (4-BFB)		0.684	mg/Kg	1	1.00	68	24.4 - 114 6

Method Blank (1) QC Batch: 51355

QC Batch:	51355	Date Analyzed:	2008-08-11	Analyzed By:	ER
Prep Batch:	44041	QC Preparation:	2008-08-11	Prepared By:	ER

Parameter	Flag	MDL Result	Units	RL
GRO		<0.144	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	83.3 - 108.5
4-Bromofluorobenzene (4-BFB)		0.786	mg/Kg	1	1.00	79	34.5 - 105.8

Method Blank (1) QC Batch: 51381

QC Batch: 51381 | Date Analyzed: 2008-08-13 | Analyzed By: MN
Prep Batch: 44062 | QC Preparation: 2008-08-13 | Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
TRPHC		<1.06	mg/Kg	10

Laboratory Control Spike (LCS-1)

QC Batch: 51342 | Date Analyzed: 2008-08-12 | Analyzed By: RD
Prep Batch: 44031 | QC Preparation: 2008-08-11 | Prepared By: RD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec. Limit
Chloride	12.0	mg/Kg	1	12.5	<0 353	96	83.7 - 111.5

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	11.8	mg/Kg	1	12.5	<0.353	94	83.7 - 111.5	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: 51348 | Date Analyzed: 2008-08-11 | Analyzed By: MN
Prep Batch: 44037 | QC Preparation: 2008-08-11 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	308	mg/Kg	1	250	<6.77	123	73 9 - 138

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	307	mg/Kg	1	250	<6.77	123	73.9 - 138	0	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	88.9	103	mg/Kg	1	100	89	103	49 5 - 185

Laboratory Control Spike (LCS-1)

QC Batch: 51353 | Date Analyzed: 2008-08-11 | Analyzed By: ER
Prep Batch: 44041 | QC Preparation: 2008-08-11 | Prepared By: ER

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit
Benzene	0.956	mg/Kg	1	1.00	<0.00347	96	80.5 - 115.5
Toluene	0.981	mg/Kg	1	1.00	<0.00525	98	80 - 114.7
Ethylbenzene	0.993	mg/Kg	1	1.00	<0 00607	99	77.1 - 114.2
Xylene	2.99	mg/Kg	1	3.00	<0.00724	100	77.6 - 114.5

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	0.953	mg/Kg	1	1.00	<0.00347	95	80 5 - 115 5	0	20
Toluene	0 975	mg/Kg	1	1.00	<0.00525	98	80 - 114.7	1	20
Ethylbenzene	0.979	mg/Kg	1	1 00	<0.00607	98	77.1 - 114.2	1	20
Xylene	2.95	mg/Kg	1	3.00	<0.00724	98	77.6 - 114.5	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)	0.930	0.924	mg/Kg	1	1.00	93	92	74.2 - 114.7
4-Bromofluorobenzene (4-BFB)	0.889	0.879	mg/Kg	1	1.00	89	88	69.7 - 118.7

Laboratory Control Spike (LCS-1)

QC Batch: 51355 | Date Analyzed: 2008-08-11 | Analyzed By: ER
Prep Batch: 44041 | QC Preparation: 2008-08-11 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.21	mg/Kg	1	10.0	<0.144	92	73 1 - 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
GRO	9.71	mg/Kg	1	10.0	<0.144	97	73.1 - 114.7	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.947	0.983	mg/Kg	1	1.00	95	98	77.4 - 111 4
4-Bromofluorobenzene (4-BFB)	0.918	0 969	mg/Kg	1	1.00	92	97	70 3 - 116 1

Laboratory Control Spike (LCS-1)

QC Batch: 51381 | Date Analyzed: 2008-08-13 | Analyzed By: MN
Prep Batch: 44062 | QC Preparation: 2008-08-13 | Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	197	mg/Kg	1	250	<1.06	79	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	209	mg/Kg	1	250	<1.06	84	75.5 - 136	6	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: 170133

QC Batch: 51342 | Date Analyzed: 2008-08-12 | Analyzed By: RD
Prep Batch: 44031 | QC Preparation: 2008-08-11 | Prepared By: RD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec	Rec Limit
Chloride	822	mg/Kg	50	625	231.617	94	24.8 - 156.2

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	811	mg/Kg	50	625	231 617	93	24.8 - 156.2	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: 170136

QC Batch: 51348 | Date Analyzed: 2008-08-11 | Analyzed By: MN
Prep Batch 44037 | QC Preparation: 2008-08-11 | Prepared By: MN

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	294	mg/Kg	1	250	<6.77	118	50.7 - 134

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	274	mg/Kg	1	250	<6 77	110	50.7 - 134	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
n-Triacontane	116	95.6	mg/Kg	1	100	116	96	49.5 - 185

Matrix Spike (MS-1) Spiked Sample: 170133

QC Batch: 51353 | Date Analyzed: 2008-08-11 | Analyzed By: ER
Prep Batch: 44041 | QC Preparation: 2008-08-11 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1.27	mg/Kg	1	1.00	<0.00347	127	42.9 - 130.7
Toluene	[3]	1.36	mg/Kg	1	1.00	<0.00525	136	46.9 - 135.4
Ethylbenzene		1.43	mg/Kg	1	1.00	<0.00607	143	48.3 - 149.3
Xylene		4.32	mg/Kg	1	3.00	<0.00724	144	48.8 - 150.9

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	1.25	mg/Kg	1	1.00	<0.00347	125	42.9 - 130.7	2	20
Toluene	1.35	mg/Kg	1	1.00	<0.00525	135	46.9 - 135.4	1	20
Ethylbenzene	1.43	mg/Kg	1	1.00	<0.00607	143	48.3 - 149.3	0	20
Xylene	4.33	mg/Kg	1	3.00	<0.00724	144	48.8 - 150.9	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)	[4,5]	1.32	1.32	mg/Kg	1	1	132	132	63.2 - 128.3
4-Bromofluorobenzene (4-BFB)		1.28	1.31	mg/Kg	1	1	128	131	61.5 - 161.2

Matrix Spike (MS-1) Spiked Sample: 170134

QC Batch: 51355 | Date Analyzed: 2008-08-11 | Analyzed By: ER
Prep Batch: 44041 | QC Preparation: 2008-08-11 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	12.9	mg/Kg	1	10.0	<0.144	129	48.9 - 155.8

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

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	12.7	mg/Kg	1	10 0	<0 144	127	48 9 - 155 8	2	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)	1.21	1 14	mg/Kg	1	1	121	114	41.8 - 145.4
4-Bromofluorobenzene (4-BFB)	1 44	1.37	mg/Kg	1	1	144	137	50.3 - 197 8

Matrix Spike (MS-1) Spiked Sample: 170133

QC Batch: 51381 Date Analyzed: 2008-08-13 Analyzed By: MN
Prep Batch: 44062 QC Preparation: 2008-08-13 Prepared By: MN

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	383	mg/Kg	1	250	49.5	133	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	392	mg/Kg	1	250	49.5	137	10 - 354	2	20

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

Standard (ICV-1)

QC Batch 51342 Date Analyzed: 2008-08-12 Analyzed By: RD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.7	94	90 - 110	2008-08-12

Standard (CCV-1)

QC Batch. 51342 Date Analyzed: 2008-08-12 Analyzed By: RD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12 5	12.0	96	90 - 110	2008-08-12

Standard (ICV-1)

QC Batch: 51348 Date Analyzed: 2008-08-11 Analyzed By: MN

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	285	114	85 - 115	2008-08-11

Standard (CCV-1)

QC Batch: 51348 Date Analyzed 2008-08-11 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	258	103	85 - 115	2008-08-11

Standard (ICV-1)

QC Batch: 51353 Date Analyzed: 2008-08-11 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0 100	0.0996	100	85 - 115	2008-08-11
Toluene		mg/Kg	0 100	0.102	102	85 - 115	2008-08-11
Ethylbenzene		mg/Kg	0.100	0 101	101	85 - 115	2008-08-11
Xylene		mg/Kg	0.300	0.303	101	85 - 115	2008-08-11

Standard (CCV-1)

QC Batch: 51353 Date Analyzed: 2008-08-11 Analyzed By: ER

Param	Flag	Units	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0 100	0 0945	94	85 - 115	2008-08-11
Toluene		mg/Kg	0.100	0.0989	99	85 - 115	2008-08-11
Ethylbenzene		mg/Kg	0.100	0.0969	97	85 - 115	2008-08-11
Xylene		mg/Kg	0 300	0 292	97	85 - 115	2008-08-11

Standard (ICV-1)

QC Batch: 51355 Date Analyzed: 2008-08-11 Analyzed By: ER

Param	Flag	Units	ICVs True Conc	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0 922	92	85 - 115	2008-08-11

Standard (CCV-1)

QC Batch: 51355 Date Analyzed: 2008-08-11 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0 912	91	85 - 115	2008-08-11

Standard (ICV-1)

QC Batch: 51381 Date Analyzed: 2008-08-13 Analyzed By: MN

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	88.8	89	80 - 120	2008-08-13

Standard (CCV-1)

QC Batch: 51381 Date Analyzed: 2008-08-13 Analyzed By: MN

Param	Flag	Units	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	104	104	80 - 120	2008-08-13

LAB Order ID # 808101 Page 1 of 1

TraceAnalysis, Inc.

email. lab@traceanalysis.com

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Company Name: Talon LPE | Phone #:

Address. (Street, City, Zip): 318 E Taylor Hobbs NM 88240 | Fax #.

Contact Person: Shelly Tucker | E-mail: Shelly

Invoice to: (If different from above) [illegible]

Project #: | Project Name: Crow Flats 28 Fed #1

Project Location (including state): Eddy County NM | Sampler Signature: Shelly Tucker

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD TSS pH	Moisture Content	Chloride	Turn Around Time if different from standard	Hold
170133	Floor Comp	1			X								X	8/7/08	1200																	X		

Relinquished by: Shelly Tucker Company: 08/08 Date: 8/8/08 Time: 12:20 | Received by: | Company: | Date: | Time: | Temp°c:

Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | Temp°c:

Relinquished by: | Company: | Date: | Time: | Received by: Ryan Trace Company: | Date: 08/09/08 | Time: 12:20 | Temp°c: 21.9

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
21.9
Log-in-Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C O C

Carrier # walk in

OCT -2 2008

505-706-7234

LAB Order ID # 808101

Page 1 of 1

TraceAnalysis, Inc.

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Company Name: Talon LPE

Phone #:

Address (Street, City, Zip): 318 E Taylor Hobbs NM 88240

Fax #:

Contact Person: Shelly Tucker

E-mail: Shelly

Invoice to: (If different from above)

Project #:

Project Name: Cass Flats 28 Fed #1

Project Location (including state): Eddy County NM

Sampler Signature: Shelly Tucker

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
170133	Floor Comp	1			X								X	8/7/08	1200

Analyses requested: MTBE 8021B / 602 / 8260B / 624; BTEX 8021B / 602 / 8260B / 624; TPH 418.1 / TX1005 / TX1005 Ext(C35) 4/8.1 OK; TPH 8015 GRO / DRO / TVHC; PAH 8270C / 625; Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7; TCLP Metals Ag As Ba Cd Cr Pb Se Hg; TCLP Volatiles; TCLP Semi Volatiles; TCLP Pesticides; RCI; GC/MS Vol 8260B / 624; GC/MS Semi Vol 8270C / 625; PCB's 8082 / 608; Pesticides 8081A / 608; BOD, TSS, pH; Moisture Content; 2. Chloride (Cl)

Turn Around Time if different from standard

Hold

24 hr Rush

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Shelly Tucker		08/08/08	12:20					
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
				Trace		08/09/08	12:20	21.9

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

21.9 °C

Log-In-Review

REMARKS:
8/12/08 - Verbal on chloride 11:50 @
8/12/08 - Prelim Summ. GRO 12:45 @

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

e-mailed 8/12 Summary

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C

Carrier # Walk in

8/13 EPT

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