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

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

	<del></del> _		
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alter Closure of a pit, closed-loop system, below-grade tank, or proposed alter Modification to an existing permit Closure plan only submitted for an existing permitted below-grade tank, or proposed alternative method	ernative 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 surfi	ace water, ground water or the		
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental author	rity's rules regulations or ordinances.		
t.	IILULIVED		
Operator: Mewbourne Oil Company OGRID #: 14744	110 -4 2010		
Address: P.O. Box 5270, Hobbs, NM 88241	FEB <b>-4</b> 2010		
Facility or well name: "Bradley 31 Fed #3"	NMOCD ARTESIA		
API Number: 30-015-36877 OCD Permit Number:			
U/L or Qtr/Qtr P Section 31 Township 18S Range 30E County:	Eddy		
Center of Proposed Design: Latitude N 32°41'50" Longitude W 104°00'34"	NAD: ⊠1927 □ 1983		
Surface Owner:   Federal  State  Private  Tribal Trust or Indian Allotment			
2.			
Z. Pit: Subsection F or G of 19.15.17.11 NMAC			
Temporary:   Drilling   Workover			
Permanent Emergency Cavitation P&A			
☑ Lined       ☐ Unlined       Liner type: Thickness       20       mil       ☑ LLDPE       ☐ PVC       ☐ Other			
⊠ String-Reinforced			
Liner Seams: Welded Factory Other Volume: 14400 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 a	approval of a permit or notice of		
intent)  Drying Pad  Above Ground Steel Tanks  Haul-off Bins  Other			
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ PVC ☐ Other			
Liner Seams: Welded Factory Other Other			
4.			
Below-grade tank: Subsection I of 19.15.17.11 NMAC			
Volume:bbl Type of fluid:	ENTERNA		
Tank Construction material:	(CAICRED)		
☐ 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: Thicknessmil	1		
5.			
Alternative Method:			
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office	- 6		

Final of Sure dute 6/1/09 il Conservation Division

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, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	hospital,	
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		
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.		
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	
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☒ No	
Within a 100-year floodplain FEMA map	☐ Yes ☒ No	

emporary 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 stached.  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 19.15.17.12 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	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
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)	
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 <sub>2</sub> S, Prevention Plan   Cilosure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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)	
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 G of 19.15.17.13 NMAC	

Waste Removal Closure For Closed-loop Systems That Utilize Above Grounstructions: Please indentify the facility or facilities for the disposal of liquifacilities are required.		
Disposal Facility Name: CRI	Disposal Facility Permit Number: R91	66
Disposal Facility Name: Lea Land		
Will any of the proposed closed-loop system operations and associated activitie  ✓ Yes (If yes, please provide the information below) ☐ No		
Required for impacted areas which will not be used for future service and oper  Soil Backfill and Cover Design Specifications based upon the approp  Re-vegetation Plan - based upon the appropriate requirements of Subsec  Site Reclamation Plan - based upon the appropriate requirements of Sub	oriate requirements of Subsection H of 19.15.17.13 Netion I of 19.15.17.13 NMAC	MAC
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMA Instructions: Each siting criteria requires a demonstration of compliance in provided below. Requests regarding changes to certain siting criteria may re considered an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMA	the closure plan. Recommendations of acceptable equire administrative approval from the appropriate ental Bureau office for consideration of approval.	district office or may be
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;		Yes No
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
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site		/a ☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or ch - Visual inspection (certification) of the proposed site; Aerial photo; Sate		☐ Yes 🖾 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that watering purposes, or within 1000 horizontal feet of any other fresh water well  NM Office of the State Engineer - iWATERS database; Visual inspect	or spring, in existence at the time of initial application	on. Yes 🖾 No
Within incorporated municipal boundaries or within a defined municipal fresh adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written app	•	Yes 🖾 No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; V	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-Mi	ining and Mineral Division	☐ Yes ☒ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geo Society; Topographic map</li> </ul>	ology & Mineral Resources; USGS; NM Geological	☐ Yes 🛭 No
Within a 100-year floodplain FEMA map		☐ Yes ☑ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate Proof of Surface Owner Notice - based upon the appropriate requirement Construction/Design Plan of Burial Trench (if applicable) based upon the Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 1 Confirmation Sampling Plan (if applicable) - based upon the appropriate Waste Material Sampling Plan - based upon the appropriate requirement.  Disposal Facility Name and Permit Number (for liquids, drilling fluids a	e requirements of 19.15.17.10 NMAC ts of Subsection F of 19.15.17.13 NMAC ne appropriate requirements of 19.15.17.11 NMAC ng pad) - based upon the appropriate requirements of 19.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC as of Subsection F of 19.15.17.13 NMAC and drill cuttings or in case on-site closure standards of	19.15.17.11 NMAC
<ul> <li>         ⊠ Soil Cover Design - based upon the appropriate requirements of Subsect</li> <li>         ⊠ Re-vegetation Plan - based upon the appropriate requirements of Subsect</li> <li>         ⊠ Site Reclamation Plan - based upon the appropriate requirements of Subsect</li> </ul>	tion I of 19.15.17.13 NMAC	

19,	
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accur	ate and complete to the best of my knowledge and belief.
Name (Print): Charles Martin	Title: Engineer
Signature:	Date:
e-mail address: <u>cmartin@mewbourne.com</u>	Telephone: (575)393-5905
20.  OCD Approval: Permit Application (including closure plan) Closure P	lan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the continued and the continu	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this
	Za distance completion bates_outer/or
22.  Closure Method:  Waste Excavation and Removal ☑ On-Site Closure Method ☐ Altern  If different from approved plan, please explain.	ative Closure Method
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, dri	
two facilities were utilized.	District the state of
Disposal Facility Name:	
Disposal Facility Name:	
Were the closed-loop system operations and associated activities performed on of Yes (If yes, please demonstrate compliance to the items below) \(\Boxed{\square}\) No	in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operat  Site Reclamation (Photo Documentation)	ions:
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	· · · · · · · · · · · · · · · · · · ·
	ngitude <u>W 104.00498</u> NAD: □1927 ☑ 1983
25. Operator Closure Certification:	,
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirer	
Name (Print): Charles Martin	Title: Engineer
	Date: 2-1-10
e-mail address: cmartin@mewhourne.com	Telephone: (575)393_5905

Accepted for record NMOCD

FEB 1 1 2010



January 27, 2010

RECEIVED
FEB -4 2010
NMOCD ARTESIA

AMARILLO 92I North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622 Mr. Mike Bratcher NMOCD District 2 Office 1301 W. Grand Artesia, NM 88210

ARTESIA

IO4 West Hermosa Artesia, New Mexico 882IO Phone 575.746.8768 Fax 575 746.8905

Sec 31, T 18S, R 30E, Eddy County, NM

API: 30-015-36877

AUSTIN

9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 5I2.989.3428 Fax 5I2.989.3487 Surface Owner: Federal

Analytical: Groundwater Protective Human Health Parameters, BTEX 8021, TPH

RE: Bradley 31 Fed #3 Pit Closure, Mewbourne Oil Company

418.1, TPH GRO/DRO, Chlorides

Primary Land Use: Ranching/Oil and Gas

HOBBS

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

MIDLAND

2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

SAN ANTONIO

17170 Jordan Rd Suite 102 Selma, Texas 78154 Phone 210.579.0235 Fax 210.568.2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918 742.0871 Fax 918.382.0232

TYLER
719 West Front
Suite 255
Tyler, Texas 75702
Phone 903.531.9971
Fax 903.531 9979

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
EMERGENCY RESPONSE

Pursuant to Rule 19.15.17.10 NMAC of the New Mexico Oil Conservation Division of New Mexico (NMOCD) regulatory requirement for temporary pit closure, please accept the following documentation for request of final closure of the temporary pit for the aforementioned location. The C-144 was approved for permit application and closure plan by Mike Bratcher on November 21, 2008.

Talon/LPE (Talon) was contracted by Mewbourne Oil Company (Mewbourne) to perform pit closure activities at the aforementioned location. During April 2009, Talon mixed all drill cuttings from the reserve pit with soil at a ratio of no more than 3 to 1 (soil to cuttings) to stabilize the soil in preparation for lined trench burial.

An initial five part composite mixed mud sample (Drill Cuttings dated 4/7/09, attached) was collected from the mixed pit contents on April 7, 2009 and submitted to Trace Analysis in Lubbock, Texas to be analyzed for SPLP chlorides. The analytical results indicated slightly elevated chlorides when compared to the regulatory requirements at that time (250 mg/kg). The pit contents were re-mixed and a second five part composite sample (Drill Cuttings dated 4/21/09, attached) was collected on April 21, 2009. This analysis indicated that the chlorides contained in the drill cuttings met the NMOCD standards for trench burial.

A burial trench was excavated west of the temporary pit. This trench was lined with a 20 mil liner. The burial trench dimensions are 38' x 121'. Once the pit contents were placed onto the liner, a 20 mil cap liner was installed over the material to cover the burial cell. The area was backfilled and covered with a minimum of three feet of native material and one foot of topsoil, contoured to surrounding grade and reseeded. The pit burial marker is placed at N 32.69887, W

Toll Free: 866.742.0742 www.talonlpe.com 104.00498. From the marker, the pit extends 18 feet north, 20 feet south, 55 feet west, and 66 feet east.

A five part composite pit bottom sample (Floor Composite, attached) was collected on May 11, 2009. These results are within the NMOCD guidelines.

After the discovery that not all the appropriate analytical tests had been performed on the temporary pit contents, another sample was collected. This additional five part composite pit contents sample (P-Comp, attached) was acquired on November 12, 2009, after receiving NMOCD approval to re-enter the burial trench and puncture the burial trench cover-liner. Once the sample was collected, the liner was resealed by the original vendor (photos enclosed). The sample was submitted to Trace Analysis in Lubbock, Texas for analysis. Upon final analytical review, the results indicate that the mixed pit contents are within acceptable NMOCD limits for the deep trench burial. With NMOCD approval the burial trench sample locations were covered with soil and reseeded.

After review of the attached documents, it is requested that the NMOCD consider this pit properly closed.

Respectfully submitted,

Simon Hudgens Environmental Scientist Talon/LPE-Artesia 575.441.4835

Kyle Summers
District Manager
Talon/LPE –Artesia

575.746.8768

District 1

1625 N French Dr., Hobbs, NM 88240

District II

1391 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

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

Department

NOV 1 4 2008

Form C-144 July 21, 2008

For temporary pits-closed loop systems, and below grade tanks, submit to the appropriate MOCD District Office.

For permanent pits and exceptions submit to the Santa Fc 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

Proposed Alternative Method Permit of 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		
Operator: Mewbourne Oil company OGRID #: 14744		
Address: P.O. Box 5270, Hobbs, NM 88241		
Facility or well name: Bradley 31 Fed #3  API Number: 30 · 015 · 30877 OCD Permit Number:		
U/L or Qtr/Qtr P Section 31 Township 18S Range 30E County: Eddy		
Center of Proposed Design: Latitude N32° 41' 50" Longitude W104° 00' 34" NAD: 1927 1983		
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment		
Temporary: ☑ Drilling ☑ Workover  ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A  ☑ Lined ☐ Unlined Liner type: Thickness20mil ☑ LLDPE ☐ HDPE ☐ PVC ☐ Other  ☑ String-Reinforced  Liner Seams: ☑ Welded ☑ Factory ☐ Other Volume:14400 _ bbl _Dimensions: L_120' _x W_100' _x D_8'		
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: Thicknessmil 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: Thicknessmil		
5.  Alternative Method:		

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	on of approval.		
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			
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)			
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			
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.			
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		
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		
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		

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:
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)
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 C of 10.15.17.13 NMAC

Waste Removal Closure For Closed-loop Sys Instructions: Please indentify the facility or fi facilities are required.				
Disposal Facility Name: CRI	• '	Disposal Facility Permit Number:	R9166	•
Disposal Facility Name: <u>Lea Land</u>		Disposal Facility Permit Number:		
Will any of the proposed closed-loop system op  Yes (If yes, please provide the informati				rice and operations?
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				
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 bott - NM Office of the State Engineer - iWA		ta obtained from nearby wells		☐ Yes ☒ No ☐ NA
Ground water is between 50 and 100 feet below - NM Office of the State Engineer - iWA		ta obtained from nearby wells		☐ Yes ☑ No ☐ NA
Ground water is more than 100 feet below the b NM Office of the State Engineer - iWA		ta obtained from nearby wells		⊠ Yes □ No □ NA
Within 300 feet of a continuously flowing wate lake (measured from the ordinary high-water m - Topographic map; Visual inspection (co	ark).	gnificant watercourse or lakebed, sinkhol	le, or playa	Yes No
Within 300 feet from a permanent residence, so - Visual inspection (certification) of the p	hool, hospital, institution, or church proposed site; Aerial photo; Satellit	h in existence at the time of initial applic te image	ation.	☐ Yes 🛭 No
Within 500 horizontal feet of a private, domesti watering purposes, or within 1000 horizontal fe - NM Office of the State Engineer - iWA	et of any other fresh water well or s	spring, in existence at the time of initial a		☐ Yes ⊠ No
Within incorporated municipal boundaries or w adopted pursuant to NMSA 1978, Section 3-27 Written confirmation or verification fro	-3, as amended.	•	ordinance	☐ Yes ☑ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identific	ation map; Topographic map; Visu	al inspection (certification) of the propos	sed site	☐ Yes ⊠ No
Within the area overlying a subsurface mine Written confirmation or verification or	map from the NM EMNRD-Mining	g and Mineral Division		☐ Yes ⊠ No
Within an unstable area.  - Engineering measures incorporated into Society; Topographic map	the design; NM Bureau of Geolog	y & Mineral Resources; USGS; NM Geo	ological	☐ Yes ☑ No
Within a 100-year floodplain FEMA map				☐ Yes ⊠ No
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 19.15.17.13 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  Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC				
Re-vegetation Plan - based upon the appr				

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 Date: 11/05/08			
e-mail address: cmartin@mewhourne.com Telephone: (575) 393-5905			
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)			
OCD Representative Signature:  Signed By Mile Bennie Approval Date: NOV 2 1 2008			
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.			
Closure Completion Date:			
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.			
13.  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 (It 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			
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)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-site closure)  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			
Onergton Closure Cartification			
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): Title:			
Signature: Date:			
e-mail address: Telephone:			

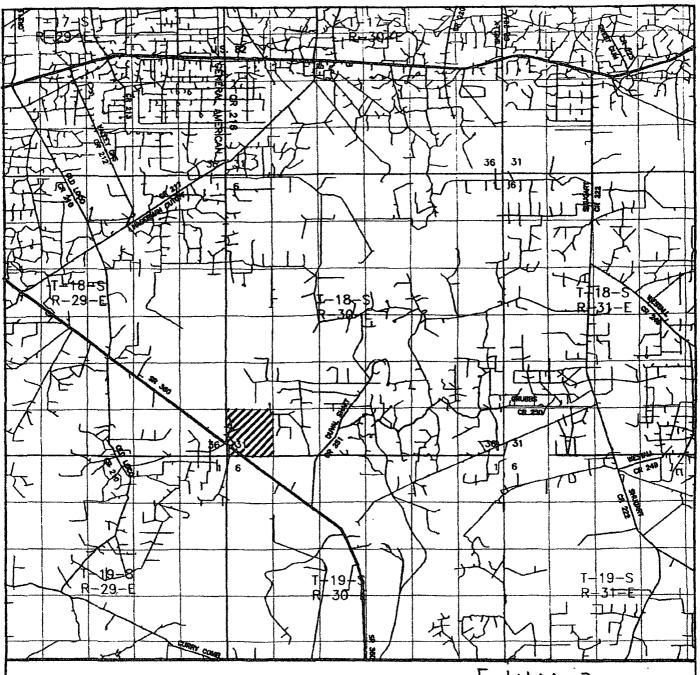


Exhibit 3

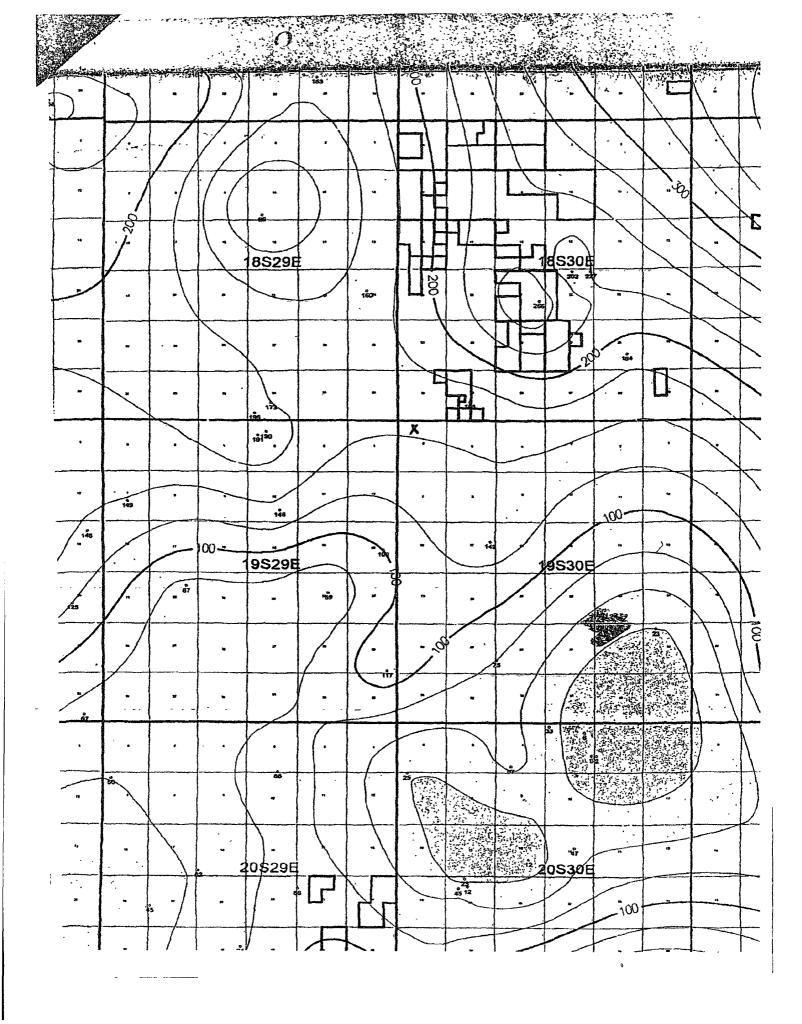
BRADLEY "31" FEDERAL Com #3 Located 875' FSL and 825' FEL Section 31, Township 18 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



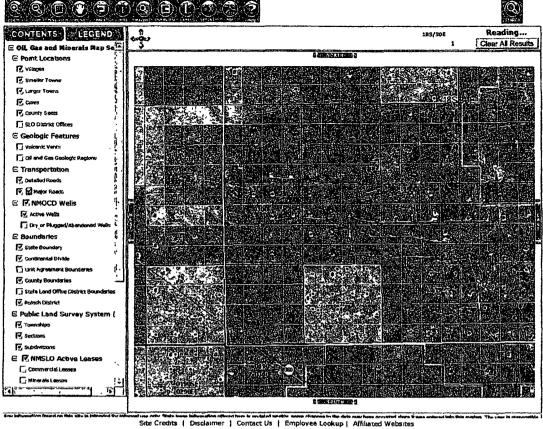
P.O. Box 1786 1120 N. West County Rd, Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

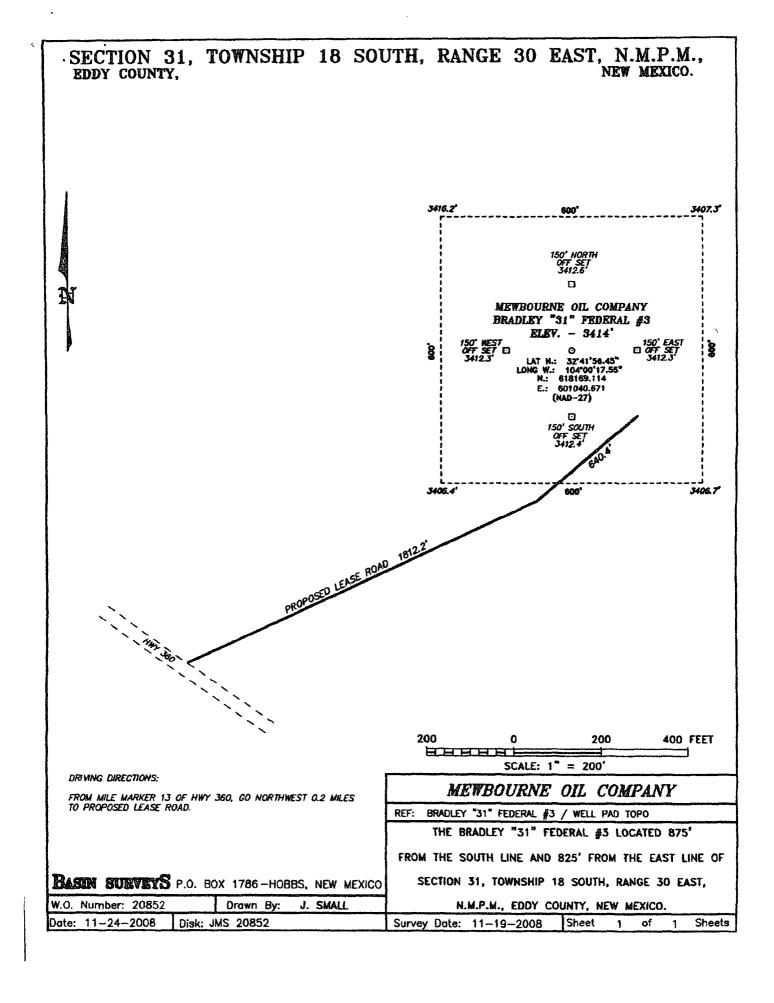
W.O Number. 20740 JMS
Survey Date: 11-05-2008
Scale: 1" = 2000"
Date: 11-06-2008

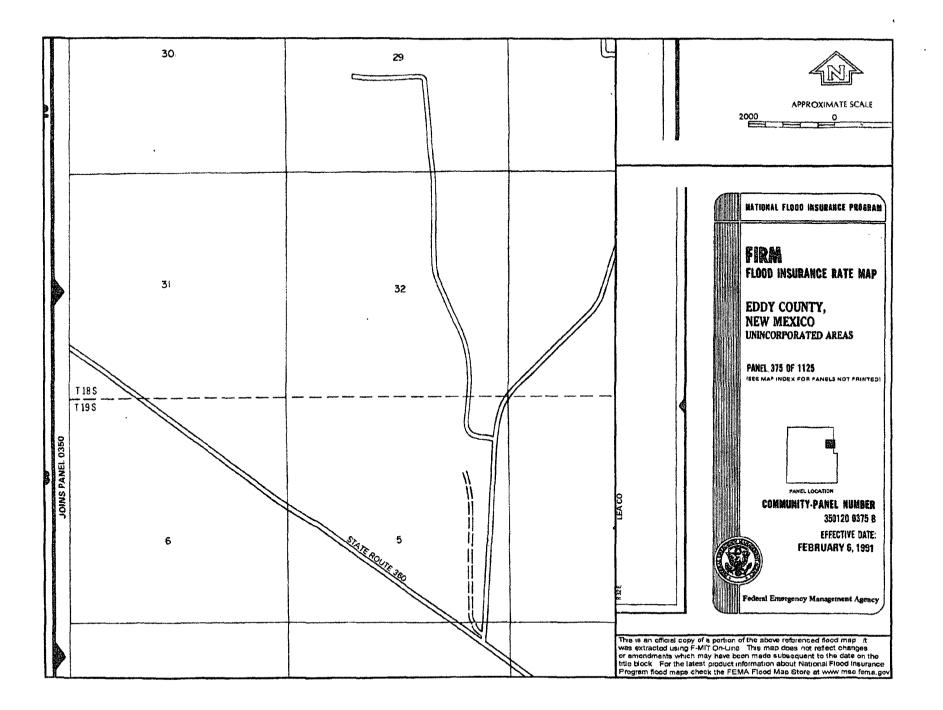
MEWBOURNE OIL CO.



New Mexico State Land Office - Oil, Gas and Minerals Map Service







· DISTRICT 1 1526; N. Fremab Dr., Hobbe, MM 88240 DISTRICT II ne, Artenia, IIII 86219

DISTRICT III

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2006

Submit to Appropriate District Office

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

State Lease - 4 Copies Fee Lease - 5 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NH 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

D AMENDED REPORT

30.015.36877 BG480 Turken Track Morr								row (Gas	0 320	
3589	Vell No	mper								
	35896  OGRID No.  OPERATOR NAME  OPERATOR NAME  OPERATOR NAME  MEWBOURNE OIL COMPANY									
Surface Location										
UL or lot No.	Section	Township Range		Lot Idn	Feet from the	North/South line	Foot from the	Rast/West line	County	
P	31	18 S	30 E		875	SOUTH	EAST	EDDY		
	,		Bottom	Hole Loc	eation If Diffe	rent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Poet from the	East/West line	County	
Dedicated Acres Joint or Infili 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										

DARD UNIT HAS BEEN APPROVED BY THE	
m/ bduop	OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my incovering and belief, and that like organication either owns a warting interest or unleased minered interest is the land motuding the proposed bottom hole location pursuant to a contract with an owner of such a mineral or morbing interest, or to a voluntary pooling agreement or a companion processing agreement or a companion pooling agreement or a companion pooling agreement or a time of the division.
	Signature Sathan 11/11/08 Signature Sathan Date  Sackie Lathan  Printed Name  SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was platted from field notes of entent surveys made by me or under my supervision and that the same to true and correct to the boot of my bettef.  NOVEMBER 788 2008
NMNM-2727 9  Lay: N32*41*56.45"  Long: W704*00'17.55"  SPC-N. 618369.114  SPC-E: 607040.671	Date Survey to Signature & Segnature & Seg
(NAD-27)	Certificate No. Gary L. Jones 7977 Basin surveyS

10

JAN 05 2009

**OCD-ARTESIA** 

OCD-ARTESEMSTATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



ATS-09-112

UMD	140.	100	+~1	Į.
Expires	Janı	ıary	31	,
			_	

6. If Indian, Allottee or Tribe Name

5. Lease Serial No. NMNM-27279

ER

C)	3
<b>SERVICE</b>	5

la. Type of Work:	DRILL	REENTEI	R				7. If Unit or CA Agr	eement, Name and	l No:	
lb. Type of Well:	Oil Well 🖸 Gas We	Il Other		Single Zone	☐ Multi	ple Zone	8. Lease Name and W Bradley 31 Federa			
2. Name of Operator							9. API Well No.	MODIA		
Mewbourne Oil Comp	any - 14744						<u> 30.0/5.</u>	368/1		
3a. Address		·	3b. Phone 575-393	e No. (include a	rea code)		10. Field and Pool, or			
	s, NM 88241		Turkey Track Morro							
4. Location of Well (Re	*25		iny State r	equirements. *)			11. Sec., T., R., M., o	r Blk. and Survey	ог Агса	
At surface 875' FS At proposed prod. zo	SL & 825' FEE' Unit	P Capitan Co	ntrolled	Water Bas	in)		C 24 T48C D24	or.		
		are as most officed		<del></del>			Sec 31 - T18S - R3	13. St	ato.	
14. Distance in miles and		iwn or post office.					12. County or Parish	1	ale	
8 miles S of Loco Hill			1			,	Eddy	NM 		
<ol> <li>Distance from propos location to nearest property or lease line,</li> </ol>	. ft.		16. No.	of Acres in lease	2	17. Spacing	ing Unit dedicated to this well			
	unit line, if any) 825'		520			320				
<ol> <li>Distance from propose to nearest well, drillin</li> </ol>			19. Prop	posed Depth		20. BLM/B	M/BIA Bond No. on file			
applied for, on this lea	se, ft. Approx		11950'			NM1693,	, Nationwide			
21. Elevations (Show wh	ether DF, KDB, RT, G	L, etc.)	22. Approximate date work will start*				23. Estimated duration			
3414' GL			ASAP				45			
			24. A	ttachments						
The following, completed	in accordance with the r	equirements of Onshor	re Oil and	Gas Order No.1,	shall be att	ached to this	form:			
1. Well plat certified by a	registered surveyor.			4. Bond	to cover the	e operations	unless covered by an	existing bond on	file (see	
2. A Drilling Plan.					20 above).		·	·	,	
3. A Surface Use Plan (i			Lands, the	e 1 .	tor certifica		rmation and/or plans	<b>b</b>	ad has the	
SUPO shall be filed w	ith the appropriate Fores	t Service Office).			rized office		rmation and/or plans i	as may be require	ed by the	
25. Signature	D 41		N	ame (Printed/Ty	ped)			Datc		
( Actu	- Bathan	ノ	Ja	ickie Lathan				11/11/08		
Title	U y · · ·									
Hobbs Regulatory										
Approved by (Signature)	/s/ Don Peter	son	N	ame (Printed/Ty	, ,	Peterso	on ·	Date DEC 2	4 2008	
Title FIEL	D MANAGER	}	O	ffice CA	RLSB	AD FIE	ELD OFFICE	-		
Application approval does operations thereon Conditions of approval, if		at the applicant holds l	egal or eq	uitable title to th	ose rights ir	the subject	lease which would entit PROVAL FOR	le the applicant to TWO YEAF	conduct	
								~~~~		

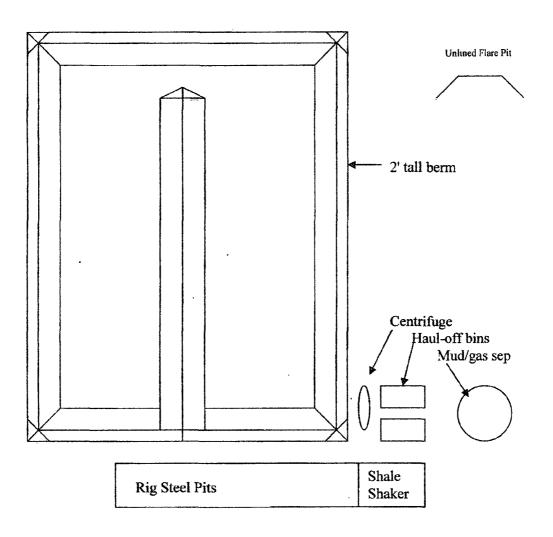
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

SEE ATTACHED FOR **CONDITIONS OF APPROVAL** 

09 APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

### **Temporary Pit Design and Construction**



Pit Dimensions:

Peak Width: 100'. Floor Width: 76' Peak Length: 120' Floor Length: 96'

Floor is 6' below GL.

Perimeter berm is 2' above GL. All walls are built with 2:1 slope.

Pit is fenced on 3 sides with barbed wire before & during drilling operations. Fourth side will be installed after drilling operations are completed.

Pit is lined with 20 mil string reinforced LLDPE installed with 18" anchor trench.

Approximate volume including 2' freeboard: 14,400 bbl.

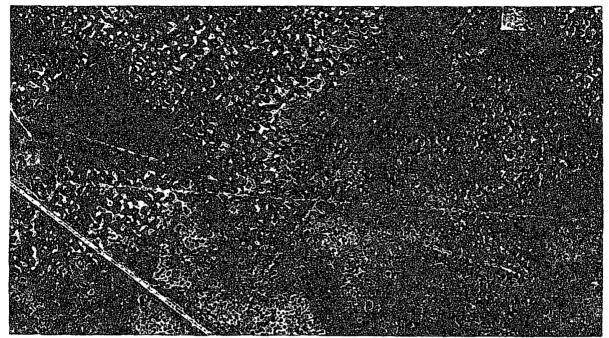
#### Temporary Pit Operating and Maintenance and Closure Plan

Temporary pit will be built in a single horse shoe as shown in the attached drawing. The pit will only be utilized for "fresh" water-based fluids. Brine water fluids will be hauled off location and disposed of in an approved facility. Drilling cuttings in the high chloride sections of the well will collect in haul-off bins and will be disposed at either Lea Land Farm or CRI. Drilling cuttings in the low chloride sections of the well will collect in the temporary pit. The temporary pit will be dewatered and solids will be buried in a deep trench on site.

#### Contingency-

If the temporary pit does not meet the required specifications to bury on site, material will be disposed of at Lea Land Farm or CRI.





#### On-Site Closure Plan

- Siting Criteria: See attachments.
- Proof of Surface Owner Notice: BLM approved APD shall serve as notice.
- Construction/Design Plan of Burial Trench: See attachment.
- Burial Trench: In compliance with 19.15.17.13 NMAC, material form temporary pit will be stiffened with a maximum 3:1 ratio and placed in a lined 20mil burial trench with approximate dimensions of 150x40x20. A 20mil lid will be placed on top of the burial cell to seal in the impacted material. Upon excavation all applicable soil testing will be performed pursuant to Pit Rule 17 to verify the limits 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 the burial contents.
- Soil Cover Design: In compliance with Subsection H of 19.15.17.13 NMAC three foot of
  native material will be placed over the burial trench and the excavated pit area with one foot of
  top soil to ensure re-vegetation.
- Re-vegetation Plan: In compliance with Subsection I of 19.15.17.13 NMAC the area will be re-seeded with a native vegetation of BLM's choice.
- 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.
- Marker: A marker will be placed over the buried material. The permanent marker will have all required information permanently listed on it.
- Deed: In compliance with 19.15.17.13 NMAC a deed will be filed with the county clerk and an
  approved copy will be attached to the final report.

On the 29<sup>th</sup> day of October, 2008 Mewbourne Oil Co. visually inspected the Bradley 31 Fed #3 location in Unit Letter P of Sec 31, T18S, R30E, of Eddy County, NM.

This is to certify that upon visual inspection of the above mentioned location there are no permanent residences, schools, hospitals, institutions or churches within 300 feet. The location is not within 500 feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, nor within 1000 horizontal feet of any other fresh water well or spring, nor within 500 feet of a wetland, nor within 300 feet of a continuously flowing water course, nor within 200 feet of any other significant watercourse or lakebed, sinkhole or playa lake (measured from the ordinary high-water mark).

Signature: Charles & makes

Date: 11/05/08

#### Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route for the Bradley 31 Federal Com #3, 875' FSL & 825' FEL of Sec 31-T18S-R30E, Eddy County, New Mexico; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Mewbourne Oil Company, its contractors and subcontractors, in accordance with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: Ullfag Date: U/II

Print: NM Young

**Hobbs District Manager** 

#### United States Department of the Interior Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

#### **Statement Accepting Responsibility for Operations**

Operator Name:

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number:

Lease Number #NMNM-27279

Legal Description of Land:

Section 31, T-18S, R-30E Eddy County, New Mexico.

Location @ 875' FSL & 825' FEL.

Formation (if applicable):

Bond Coverage:

\$150,000

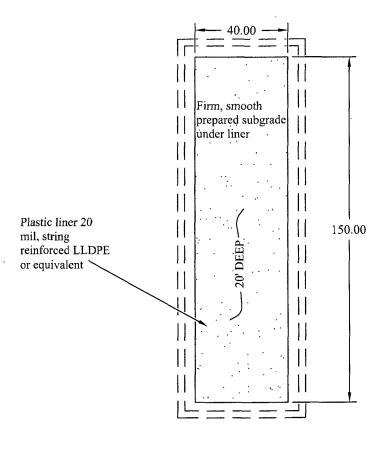
BLM Bond File:

NM1693, Nationwide

Authorized Signature:

Name: NM (Micky) Young
Title: District Manager

Date: November 11, 2008



# **Anticipated Trench Dimensions**



Date: 9/15/2009

Scale: 1" = 40'

Drawn By: HDJ

Mewbourne Oil Company Pit Liner Site Plan

Submit To Approp		State of New Mexico					Form C-105										
District 1   Energy, Minerals and Natural Resource   Energy, Minerals and Natural Resource   Energy   Energy						sources	F	1. WELL	API 1	NO.			July 17, 2008				
District II 1301 W Grand Av District III	venue, Arte	esia, NM 8							30-015-36877 2. Type of Lease								
1000 Rio Brazos F District IV	Rd, Aztec,	NM 8741	0			20 South St				r.		☐ STATE	Ξ [	FEE		D/INDIA	
1220 S St Francis	· ·					Santa Fe, N						3 State Oil 8	& Gas	Lease N	o. NMN		
WELL 4 Reason for fil		PLETI	ON OR	RECC	MPL	ETION REI	POR	T A	<u>ND</u>	LOG		5 Lease Nam	e or I	Init-Aer	ement-N	ame	
Bradlely 31 Fed Com										in the second							
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 Com	pletion:										. I			N	MOC	D AR	TESIA
8 Name of Oper					ENING	□PLUGBACK	<u> </u>	лггеі	KEN	II RESERVO		9. OGRID 14	744	1		- / (1)	1201/1
10 Address of C	perator l	PO Box :	5270, Hobb	s, NM 8	8241						1	11. Pool name	or W	ıldcat			,
12.Location	Unit Lti	r Se	ection	Towns	hıp	Range	Lot			Feet from the	;	N/S Line	Feet	from th	e E/W	Line	County
Surface:																	
BH:  13 Date Spudde	d   14 F	Date T.D.	Reached	15.	Tate Rig	Released			16	Date Complet	ed	(Ready to Prod	luce)		7 Fleva	tions (DI	and RKB,
_				03/1	0/09					•		•		1	RT, GR,	etc)	
18 Total Measur	red Depth	of Well		19 F	'lug Bac	k Measured Dep	th		20.	Was Direction	nal	Survey Made?	,	21. Ty	pe Elect	ric and O	ther Logs Run
22 Producing In	iterval(s),	of this c	ompletion -	Top, Bot	tom, Na	ıme											
23.						ING REC	ORD				ng						
CASING S	IZE	WI	EIGHT LB.	/FT DEPTH SET HOLE SIZE				LE SIZE		CEMENTIN	G RE	CORD	A	MOUNT	PULLED		
			•														
24. SIZE	TOP	-	- BC	ттом	LIN	ER RECORD SACKS CEMI	ENIT	SCRE	EEN		25 SIZI			NG REC		PACK	ER SET
SIZE	101			11014		SACKS CENT	2111	JORE			712,7	L		21 111 51		TAOR	EK GET
26 Perforation	record (	nterval	size and nu	mher)				27 /	ACI	D SHOT E	D A	CTUDE CE	MEX	IO2 TI	IEE7E	FTC	
Crioration	i iccord (i	intervar,	size, una ne	inioci)			-			NTERVAL	IV.	ACTURE, CE AMOUNT A					
							-										
28 Date First Produc	otion		Drodua	tion Moth	and (Ele	owing, gas lift, pu				TION		T 3V-11 C4-4	/D	J Cl	4 )		
Date Plist Floud	Ction		Froduc	tion Men	iou (Fic	wing, gas iiji, pi	ımpıng	- 5120	ana	туре ритр)		Well Status	(Froi	i or snu	i-in)		
Date of Test	Hour	s Tested	Ch	oke Sıze		Prod'n For Test Period		O1l - I	Bbl	G	Jas	- MCF	W	ater - Bb	1	Gas - (	Oil Ratio
Flow Tubing Press	Casir	ng Pressu		lculated 2 ur Rate	24-	Oıl - Bbl	<u>l</u> .	G	Gas - MCF		ν 	Vater - Bbl		Oıl Gı	Oil Gravity - API - (Corr )		r)
29 Disposition o	29 Disposition of Gas (Sold, used for fuel, vented, etc.)							30 1	est Witr	essed By	/						
31. List Attachm	ents																
32. If a temporar	y pit was	used at t	he well, atta	ich a plat	with the	location of the	tempor	ary pit	t								
33 If an on-site l									<u> </u>						)	- 4100	
I hereby certi	fy that t	he info	rmation	hown o	n both	Latitude 3	form	is tru	l ie a	nd complet	'e 1	Longitude .	104. f mv	knowle	dge an	NA d belie	D 1927 1983
Jackie Lathai	n		Katr		1	Printed Name Hobbs				Tit			,y		/07/10		
E-mail Addre	ss jlath	an@m	ewbourne	e.com													

DISTRICT I 1885 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

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

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

State Lease — 4 Copies Fee Lease — 3 Copies

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

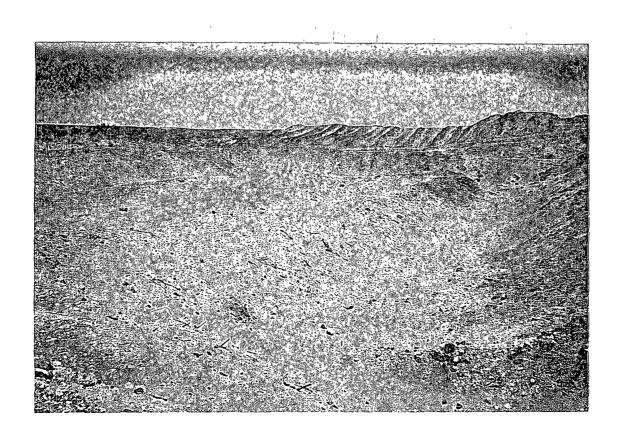
☐ AMENDED REPORT

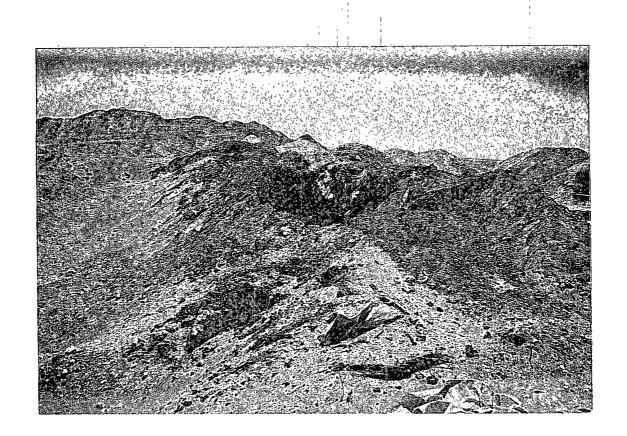
API Number Pool Code Pool Name											
30-01	5-368	רר≀			Tu	irkey Trac	ek Atoka				
Property C	ode				Property Nam	16			Well Number		
	BRADLEY "31" FEDERAL										
OGRID No					Operator Nam	e		Kleva			
ነዛግዛባ	1			MEWB	OURNE OIL	COMPANY		341	4'		
	Surface Location										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
Р	31	18 S	30 E		875	SOUTH	EAST	EDDY			
			Bottom	Hole Loc	ation If Diffe	rent From Sur	face				
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 o	r Infill Co	nsolidation	Code Or	der No.						
320							,				

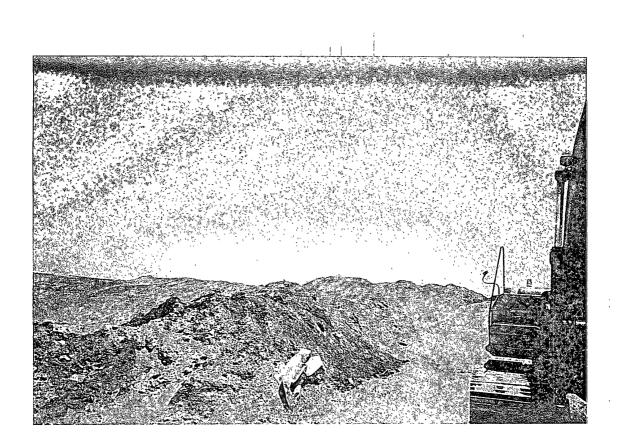
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

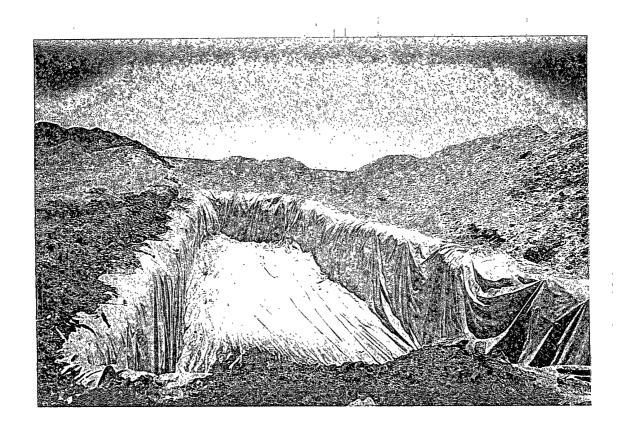
 OR A NON-STAN	DARD UNIT HAS BEE	N APPROVED	BY THE	DIVISION
				OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and betiaf, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary posting agreement or a compulsory posting order heretofore entered by the division.
		       		Signature Pathun 1/8/2010  Signature Date  Printed Name
		 		SURVEYOR CERTIFICATION  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 supervison and that the same is true and correct to the best of my beliat.
	Lat.: N32*41'56.45" Long.: W104*00'17.55" SPC-N.: 618169.114 E.: 601040.671 (NAD-27)		25'	NOVEMBER 3008  Date Surveyor  Professional Surveyor  W. Certificate No. Gary L. Jones 7977
				Basin surveyS

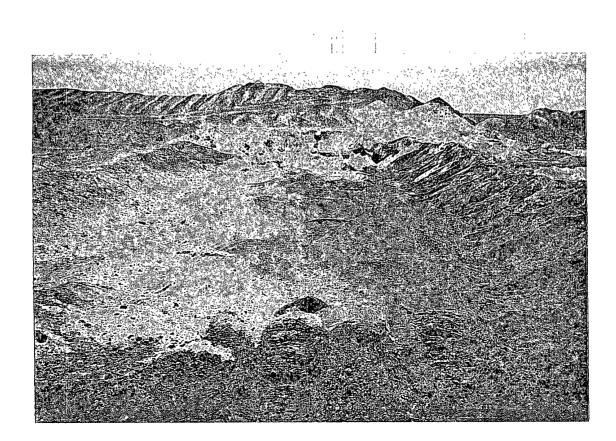
# MEWBOURNE OIL COMPAN BRADLEY "31" FED COM #3 875' FSL & 825' FEL SEC. 31. T18S, R30E EDDY COUNTY, NEW MEXICO LEASE #NMNM-2727

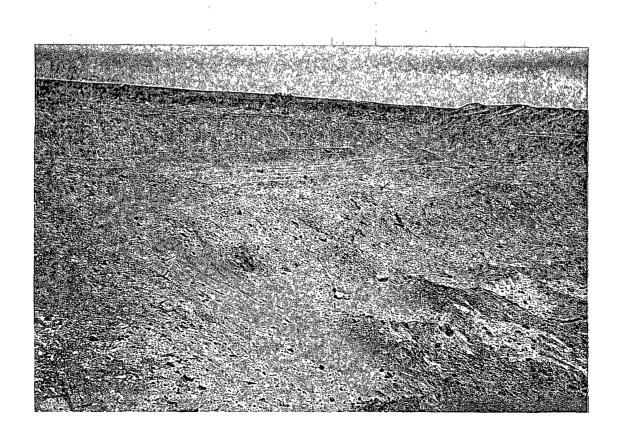


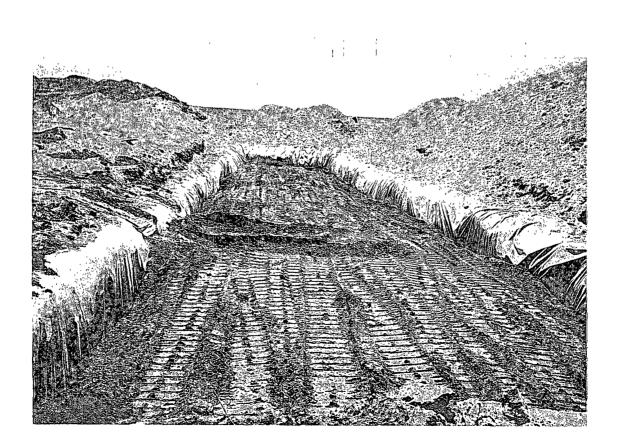


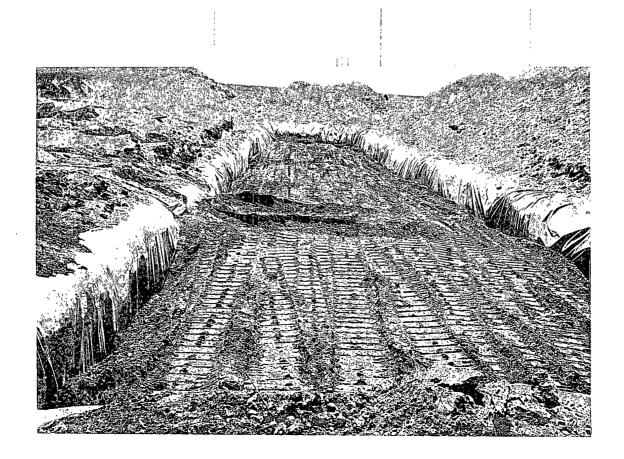


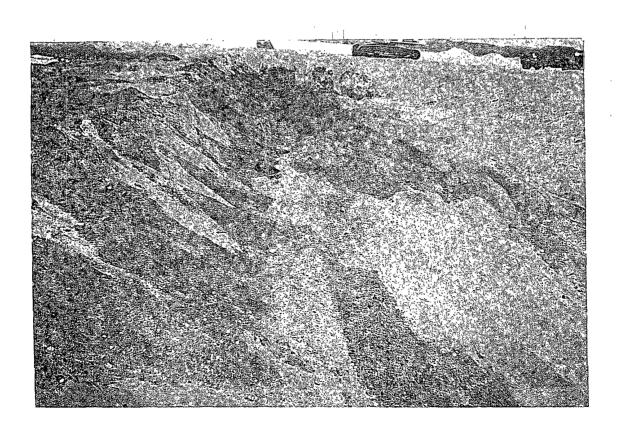


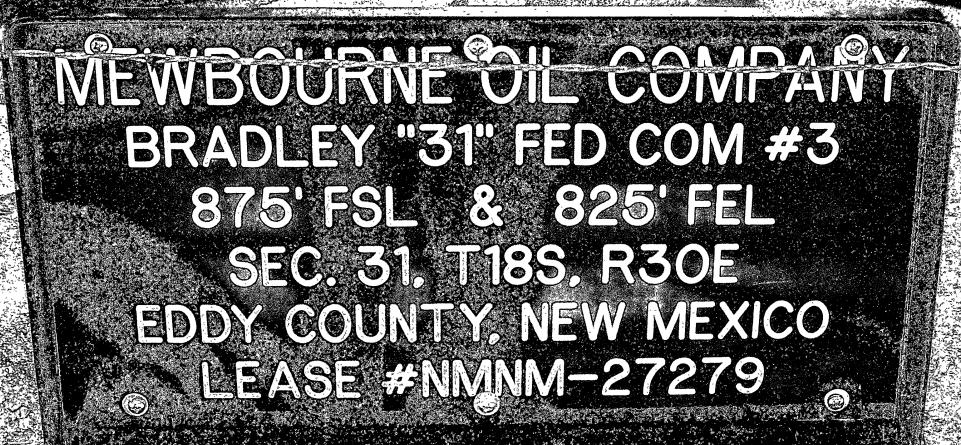


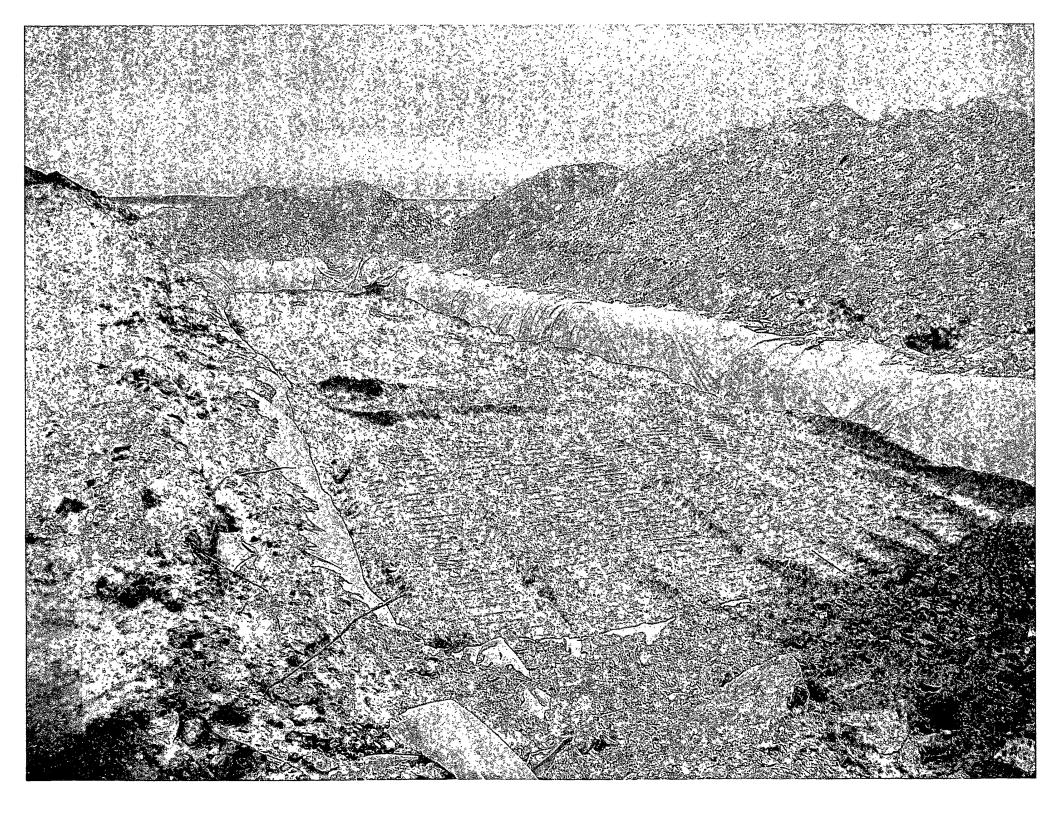


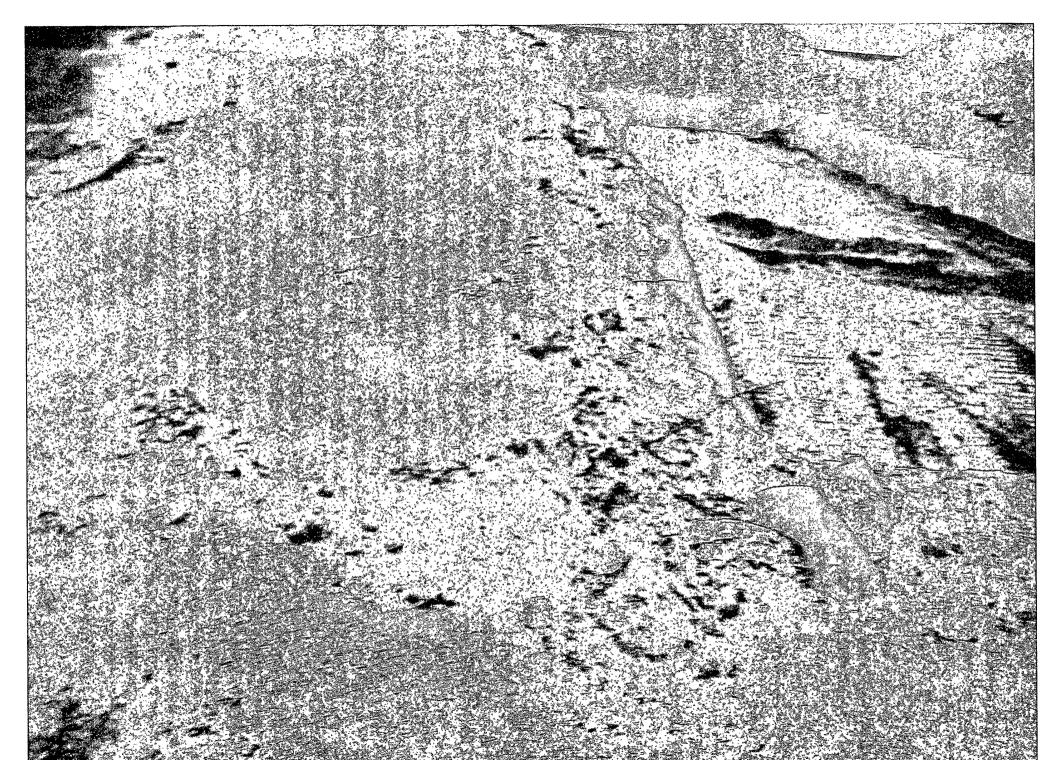


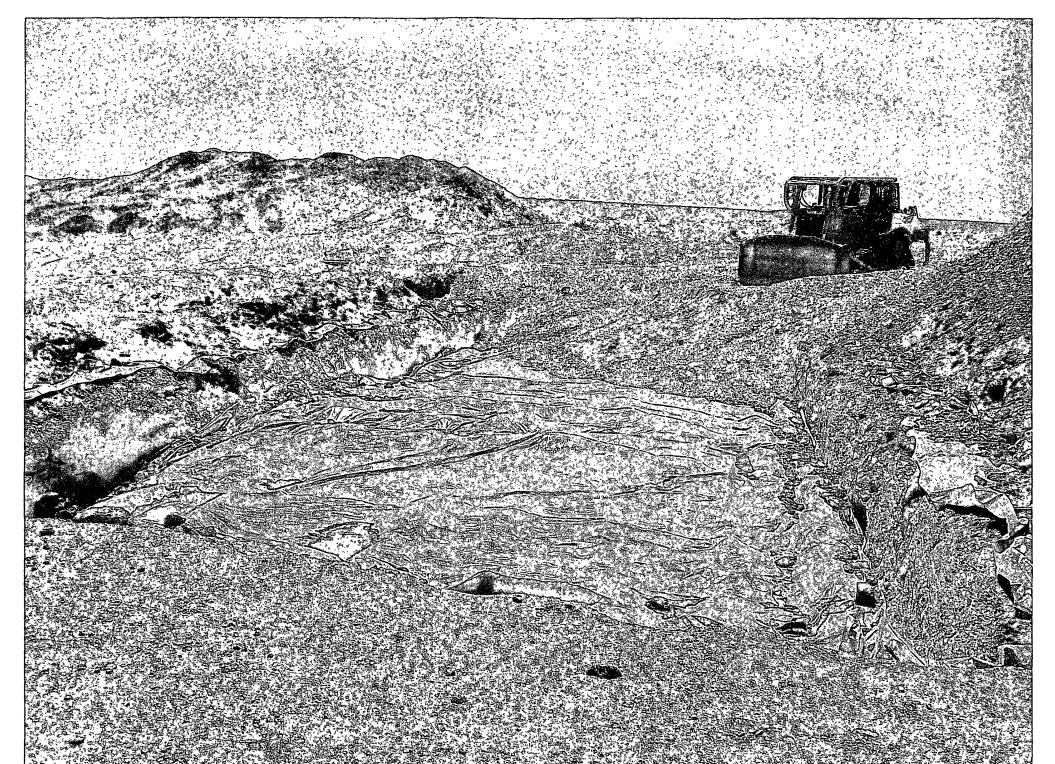




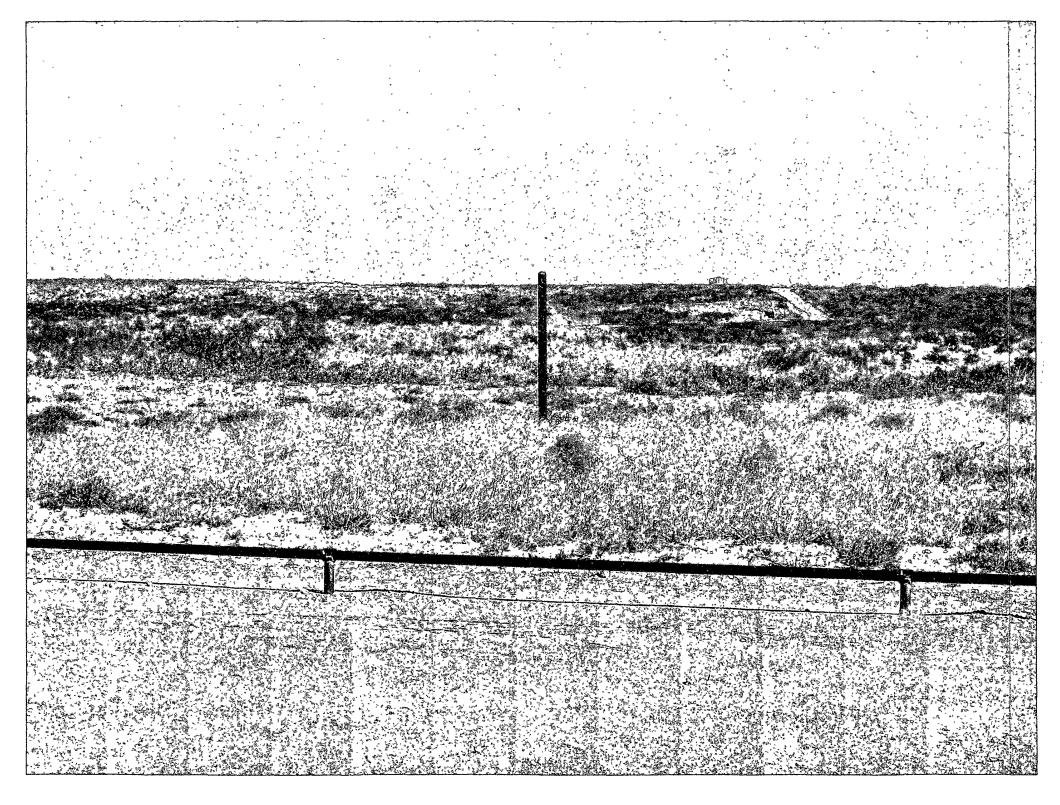


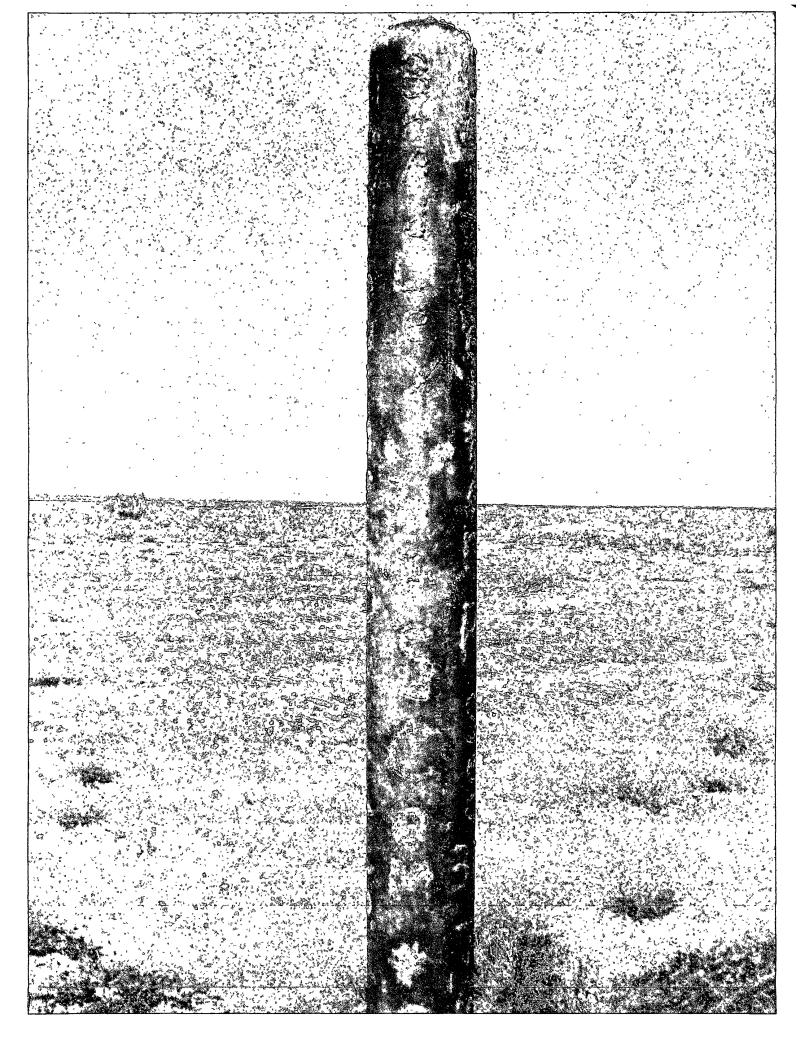


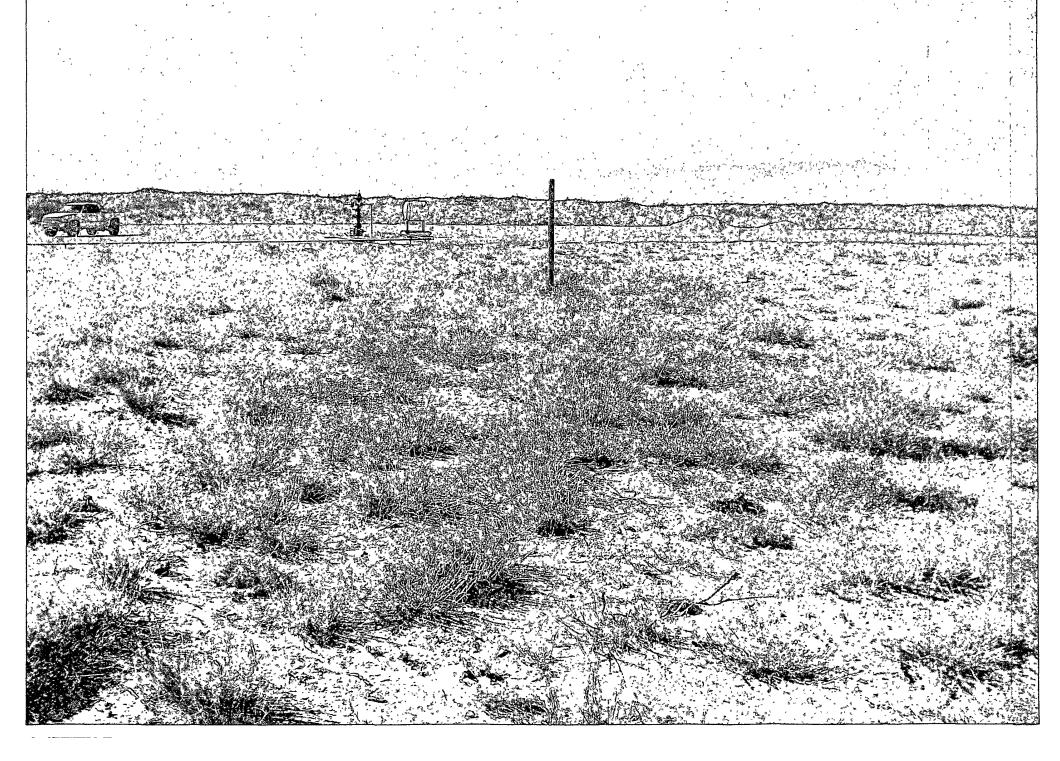


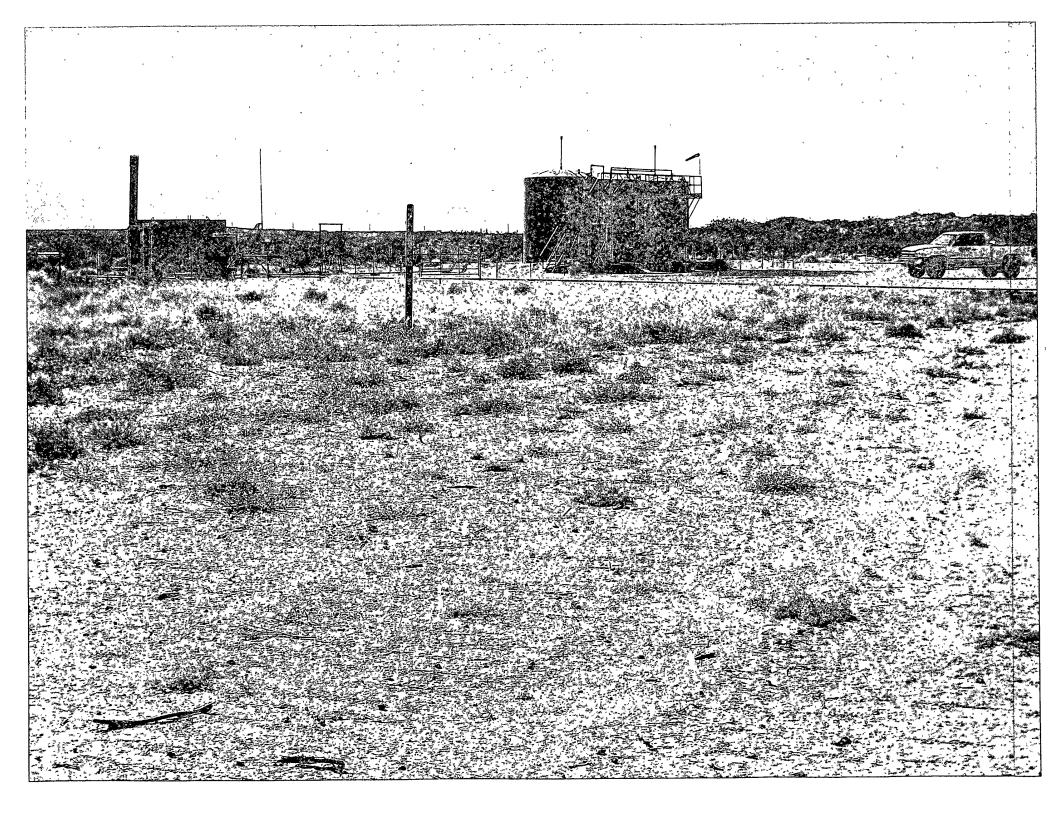


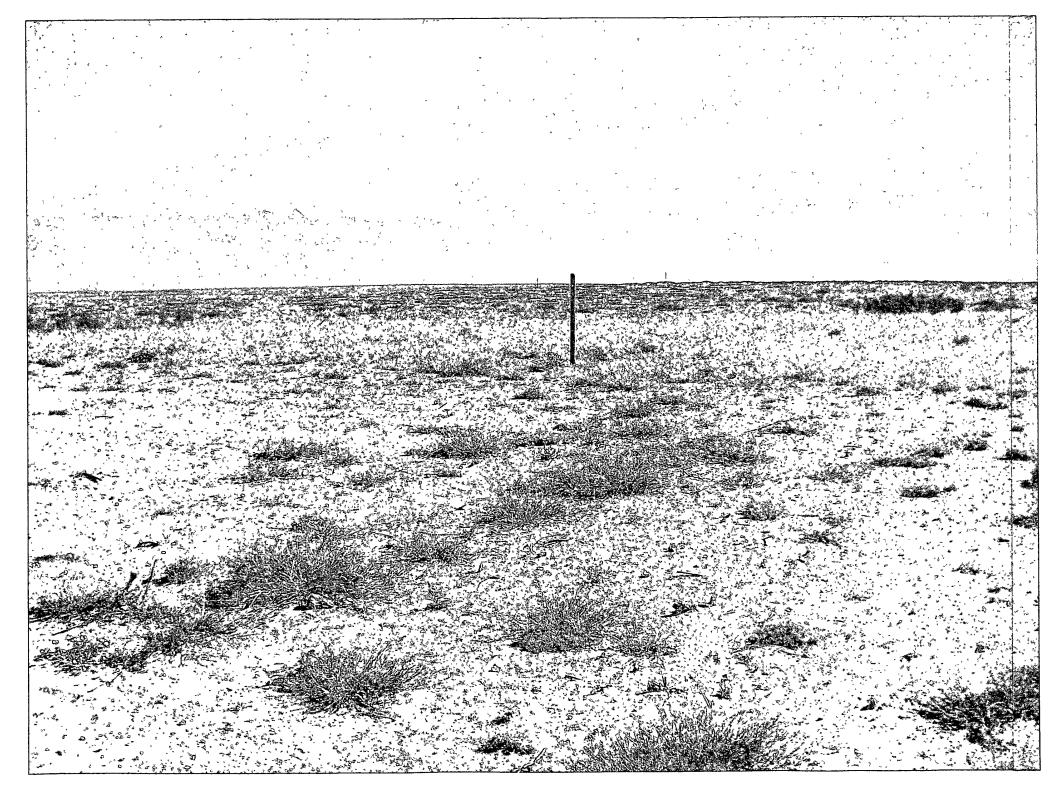


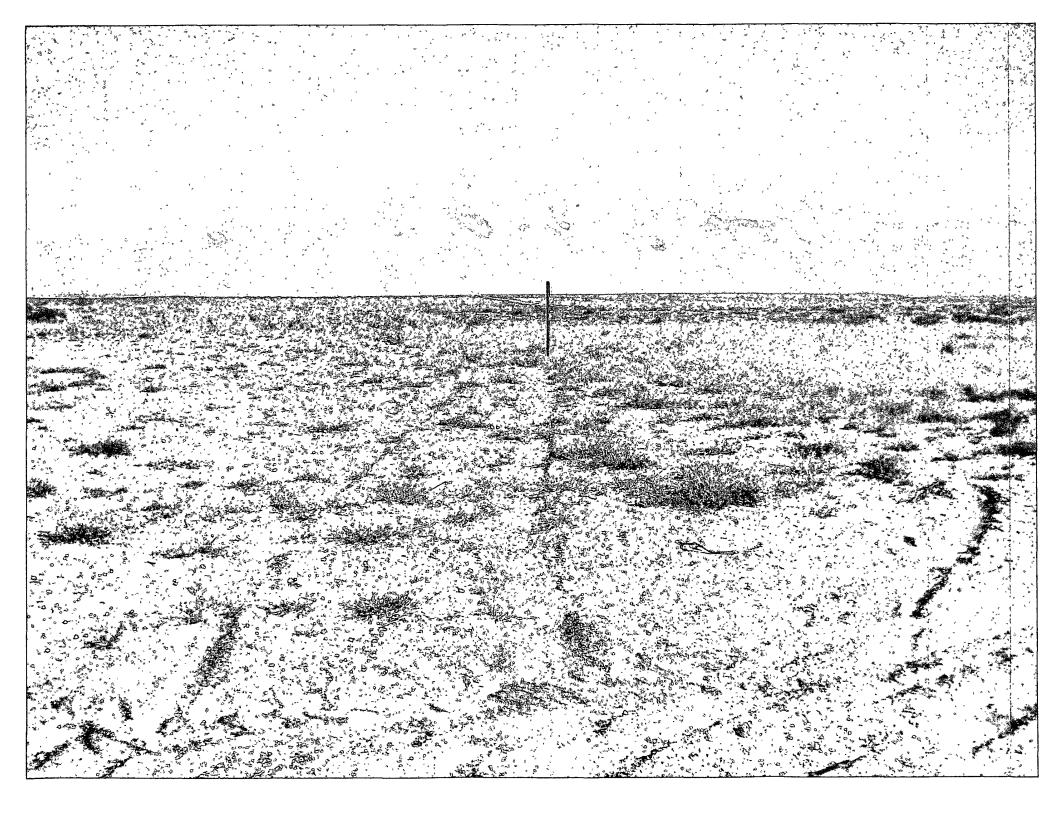


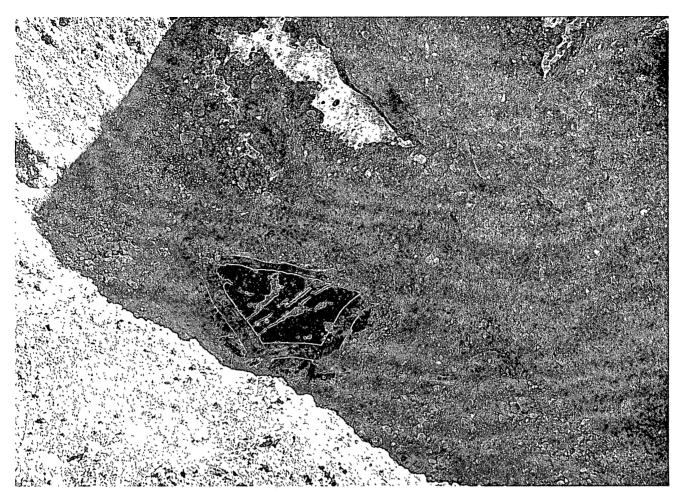


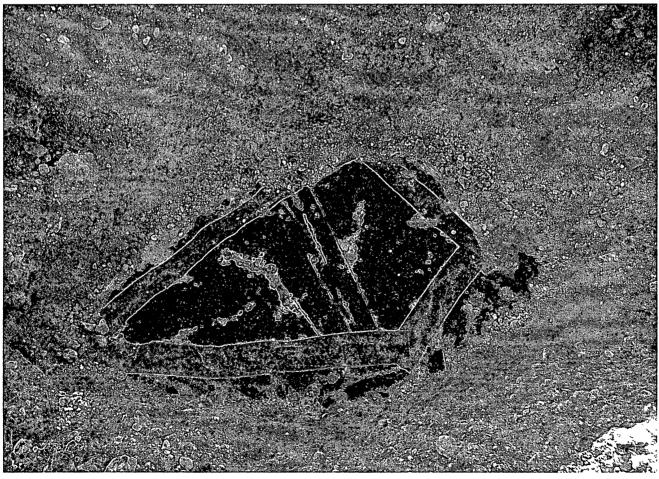


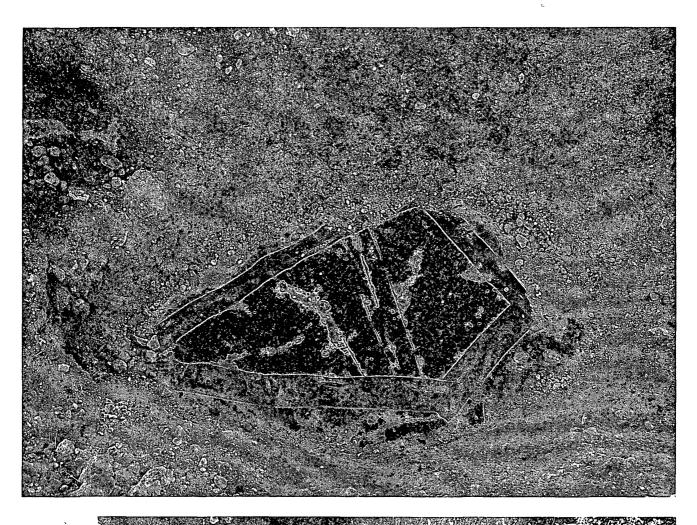


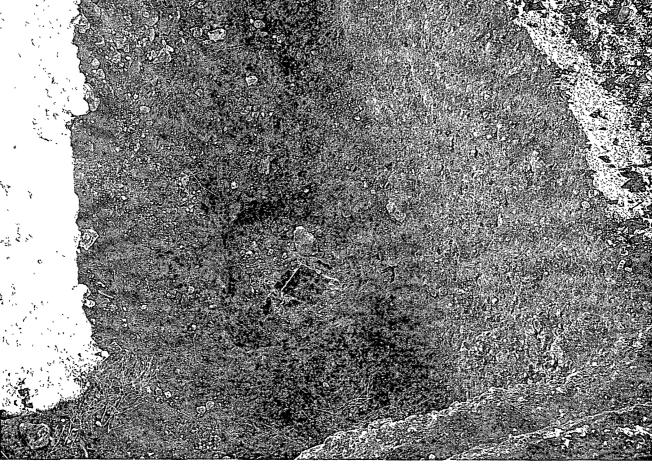


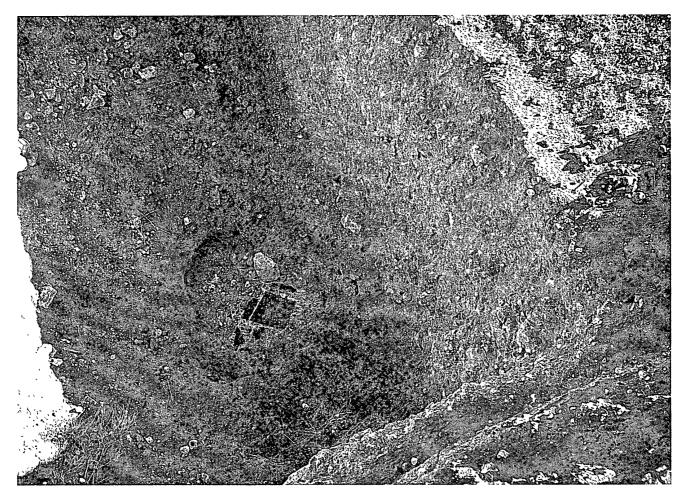


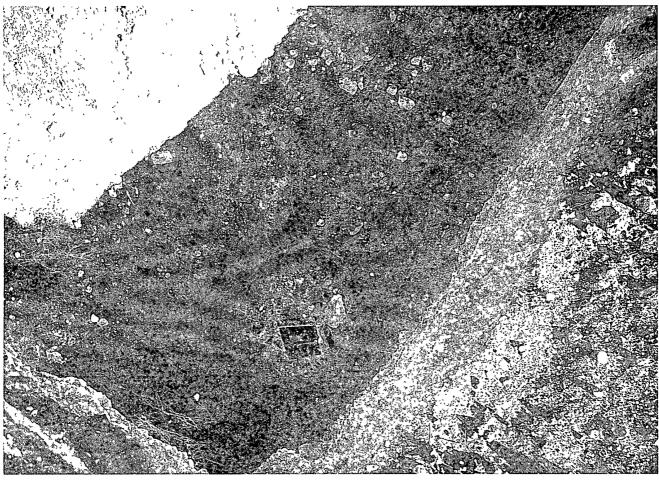












Page Number: 1 of 1 Eddy Co., NM

# Summary Report

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

Report Date: April 17, 2009

Work Order: 9041010

Project Location Project Name:

Project Location: Eddy Co., NM

Bradley 31 Fed. #3

Sample: 192740 - Drill Cuttings

Param	$\mathbf{Flag}$	Result	Units	RL
SPLP Chloride		350	mg/L	0.500



6701 Aberdeen Avenue Suite 9 200 Easi Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Surte 110 Ft Worth, Texas 76132

Lubrock, Texas 79424 El Paso Texas 79922 Midland, Texas 79703 888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 FAX 915 • 585 • 4944 432 • 689 • 6301 FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail lab@traceanalysis.com

## Certifications

**WBENC:** 237019

HUB:

1752439743100-86536 NCTRCA WFWB38444Y0909

**DBE:** VN 20657

**NELAP Certifications** 

T104704219-08-TX Lubbock:

LELAP-02003

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02002 Kansas E-10317

## **Analytical and Quality Control Report**

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

Report Date: April 17, 2009

Work Order: 9041010 

Project Location: Eddy Co., NM Project Name: Project Number:

Bradley 31 Fed. #3 Bradley 31 Fed. #3

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

			Date	1 ime	Date
Sample	Description	Matrix	Taken	Taken	Received
192740	Drill Cuttings	soil	2009-04-07	15:45	2009-04-09

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

Dr. Blair Leftwich, Director

## Standard Flags

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

## Case Narrative

Samples for project Bradley 31 Fed. #3 were received by TraceAnalysis, Inc. on 2009-04-09 and assigned to work order 9041010. Samples for work order 9041010 were received intact at a temperature of 23.6 deg. C.

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

		$\operatorname{Prep}$	Prep	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
SPLP CI	E 300.0	50055	2009-04-15 at 13:27	58627	2009-04-16 at 03:57

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 9041010 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: April 17, 2009

Bradley 31 Fed. #3

Work Order: 9041010 Bradley 31 Fed. #3

Page Number: 4 of 5 Eddy Co., NM

## **Analytical Report**

Sample: 192740 - Drill Cuttings

Laboratory:

Prep Batch:

Lubbock

Analysis: QC Batch: SPLP C1

58627 50055

Analytical Method: Date Analyzed:

**SPLP Extraction:** 

E 300.0

2009-04-16

0200-04-14

Analyzed By: Prepared By:

Prep Method: SPLP 1312 SS

SS Prepared By: SS

RL

Sample Preparation: 2009-04-15

Parameter SPLP Chloride Flag

Result 350

Units mg/L Dilution 50 RL

0.500

RL

0.5

Method Blank (1)

QC Batch: 58627

QC Batch:

Prep Batch:

58627 50055 Date Analyzed:

QC Preparation:

2009-04-16 2009-04-15 Analyzed By:

SS Prepared By:

MDL

Parameter

Flag

Result < 0.137

Units

SPLP Chloride mg/L

Laboratory Control Spike (LCS-1)

QC Batch:

58627

Date Analyzed:

2009-04-16

Analyzed By: SS

Prep Batch: 50055

QC Preparation:

2009-04-15

Prepared By:

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit SPLP Chloride 12.0mg/L 12.5< 0.13796 90 - 110

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

	LCSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Chloride	11.8	mg/L	1	12.5	< 0.137	94	90 - 110	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: 192740

QC Batch: Prep Batch:

58627 50055

Date Analyzed:

2009-04-16

2009-04-15

Analyzed By: SS

QC Preparation:

Prepared By:

Report Date: April 17, 2009

Bradley 31 Fed. #3

Work Order: 9041010

Bradley 31 Fed. #3

Page Number: 5 of 5 Eddy Co., NM

		MS			$\mathbf{Spike}$	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
SPLP Chloride	,	884	mg/L	50	625	350	85	49.8 - 149

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$\operatorname{Limit}$
SPLP Chloride	891	mg/L	50	625	350	86	49.8 - 149	1	20

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

#### Standard (CCV-1)

QC Batch: 58627

Date Analyzed: 2009-04-16

Analyzed By: SS

•			CCVs True	$\begin{array}{c} { m CCVs} \\ { m Found} \end{array}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Chloride		mg/L	12.5	11.9	95	90 - 110	2009-04-16

#### Standard (CCV-2)

QC Batch: 58627

Date Analyzed: 2009-04-16

Analyzed By: SS

			$\operatorname{CCVs}$	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Chloride		mg/L	12.5	11.9	95	90 - 110	2009-04-16

LAB Order ID#

## TraceAnalysis, Inc.

email lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 **Lubbock, Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

5002 Basin Street, Suite A1 **Midland, Texas 79703** Tel (432) 689-6301 Fax (432) 689-6313

Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443

Company Na IA IO F Address.	mpany Name:  Phone #:  Pho									ANALYSIS REQUEST (Circle or Specify Method No.)																									
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LAB# LAB USE ONLY		FIELD CODE		# CONTAINERS	Volume / Amount	WATER	SUL	SLUDGE	HCI	HNO3	H₂SO₄ NaOH	ICE	NONE		DATE	TIME	MTBE 8021B	18 1	TPH 8015 GRO / DRO / TVHC	PAH 82/0C / 625  Total Metals Ao As Ba Cd Cr Pb Se Hg 6010B/200 7	TCLP Metals Ag	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol	Pesticides 8081A / 608	BOD TSS pH	sture	8 765 B				Turn Around Time if different from standard	Hoid
192740	Drill	CuTTIN	CLS	1		/	k						X	41	17	345														L					
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project\_id client\_sam sample\_de sample\_de sample\_da prep\_date analysis\_da matrix
Bradley 31 Drill Cuttings 4/7/2009 ######## ######################### soil

analytical\_ analyte\_sh cas\_numbe result E 300.0 SPLP Chlori N/A

sample\_fla

-

result\_unit mdl\_unadjrdilution sql mql\_adjust lab\_sample\_id mg/L 0.137 50 6.85 0.5 9041010

Report Date: April 29, 2009 MEWBOU042PIT Work Order: 9042328 Bradley 31 Fed. Com. #3

Page Number: 1 of 1 Eddy Co., NM

## **Summary Report**

Eb Taylor

Talon LPE-Hobbs 318 E. Taylor Hobbs, NM 88240 Report Date: April 29, 2009

Work Order: 9042328

Project Location: Eddy Co., NM

Project Name:

Bradley 31 Fed. Com. #3

Project Number: MEWBOU042PIT

SampleDescriptionMatrixTakenTakenTakenReceived193841Drill Cuttingssoil2009-04-2115:302009-04-22

Sample: 193841 - Drill Cuttings

Param	$\operatorname{Flag}$	Result	Units	RL
SPLP Chloride		234	m mg/L	0.500



6701 Aberdeen Avenue Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway Suite 110 Ft Worth, Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland Texas 79703

800 • 378 • 1296 888 • 588 • 3443 806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

817 • 201 • 5260 E-Mail lab@traceanalysis.com

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: April 29, 2009

Work Order: 9042328

Project Location: Eddy Co., NM

Project Name: Bradley 31 Fed. Com. #3

Project Number: MEWBOU042PIT

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

			$\operatorname{Date}$	Time	$\operatorname{Date}$
Sample	Description	Matrix	Taken	Taken	Received
193841	Drill Cuttings	soil	2009-04-21	15:30	2009-04-22

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

Michael Upsl
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 Bradley 31 Fed. Com. #3 were received by TraceAnalysis, Inc. on 2009-04-22 and assigned to work order 9042328. Samples for work order 9042328 were received intact at a temperature of 31.1 deg. C.

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

		$\operatorname{Prep}$	$\operatorname{Prep}$	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
SPLP Cl	E 300.0	50364	2009-04-28 at 10:28	59011	2009-04-28 at 17:10

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 9042328 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: April 29, 2009 MEWBOU042PIT

Work Order: 9042328 Bradley 31 Fed. Com. #3 Page Number: 4 of 5 Eddy Co., NM

## **Analytical Report**

Sample: 193841 - Drill Cuttings

Laboratory: Lubbock

Analysis: SPLP Cl

QC Batch: 59011 Prep Batch: 50364 Analytical Method: E 300.0

Date Analyzed: 2009-04-28 **SPLP Extraction:** 2009-04-27 Prep Method: SPLP 1312

Analyzed By: SS Prepared By: SS Prepared By: SS

RL

Sample Preparation:

Flag Units Dilution RLParameter Result SPLP Chloride 0.500 234 mg/L 50

2009-04-28

Method Blank (1)

QC Batch: 59011

QC Batch: 59011 Prep Batch: 50364 Date Analyzed: 2009-04-28 2009-04-28 QC Preparation:

Analyzed By: SS Prepared By: SS

MDL Units RLResult Parameter Flag SPLP Chloride < 0.137mg/L 0.5

Laboratory Control Spike (LCS-1)

QC Batch: 59011 Prep Batch: 50364 Date Analyzed: 2009-04-28 QC Preparation: 2009-04-28 Analyzed By: SS Prepared By: SS

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit SPLP Chloride 23.4 mg/L 25.0 < 0.137 94 90 - 110

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

LCSD Spike Matrix Rec. RPD Param Result Units Dil. Amount Result Rec. Limit RPD Limit SPLP Chloride 23.4mg/L25.0 < 0.137 94 90 - 110 20 0

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

Matrix Spike (MS-1) Spiked Sample: 193841

QC Batch: 59011 Prep Batch: 50364 Date Analyzed: 2009-04-28 QC Preparation: 2009-04-28

Analyzed By: Prepared By:

Report Date: April 29, 2009 MEWBOU042PIT Work Order: 9042328 Bradley 31 Fed. Com. #3 Page Number: 5 of 5 Eddy Co., NM

	MS			Spike	Matrix		Rec.
Param	Result	${f Units}$	Dil.	Amount	Result	Rec.	Limit
SPLP Chloride	1480	mg/L	50	1250	< 6.85	118	49.8 - 149

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

	MSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Chloride	1470	mg/L	50	1250	< 6.85	118	49.8 - 149	1	20

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

#### Standard (CCV-1)

QC Batch: 59011

Date Analyzed: 2009-04-28

Analyzed By: SS

			CCVs	CCVs	$\operatorname{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Chloride		mg/L	25.0	23.3	93	90 - 110	2009-04-28

#### Standard (CCV-2)

QC Batch: 59011

Date Analyzed: 2009-04-28

Analyzed By: SS

			$\mathrm{CCVs}$	CCVs	$\mathrm{CCVs}$	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Chloride		mg/L	25.0	23.4	94	90 - 110	2009-04-28

LAB Order ID # 9042328

Page	of /	<i>}</i>

## TraceAnalysis, Inc.

email: lab@traceanalysis com

6701 Aberdeen Avenue, Suite 9 **Lubbock, Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 5002 Basın Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 200 East Sunset Rd Suite E El Paso, Texas 79922 Tei (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 6015 Harris Pkwy Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260

Company N Al Al Address:		Phone # 432 28-6388 Fax #										ANALYSIS REQUEST (Circle or Specify Method No.)																								
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Report Date: May 15, 2009 MEWBOU042PIT

Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 1 of 1 Eddy Co., NM

# **Summary Report**

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

Report Date: May 15, 2009

Work Order: 9051202 

Project Location: Eddy Co., NM

Project Name.

Bradley 31 Fed. Com. #3

Project Number:

MEWBOU042PIT

			Date	$\operatorname{Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
195570	Floor Composite	soil	2009-05-11	08:45	2009-05-12

			TPH DRO	TPH GRO		
	Benzene	Toluene	DRO	GRO		
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
195570 - Floor Composite	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	<1 00

Sample: 195570 - Floor Composite

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00



6701 Aberdeen Avenue Suite 9 200 East Sunset Road Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth. Texas 76132

Lubbock Texas 79424 El Paso Texas 79922 Midland Texas 79703

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FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail Jah@traceanalysis.com

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: May 15, 2009

9051202

Work Order: 

Project Location:

Eddy Co., NM

Project Name:

Bradley 31 Fed. Com. #3

Project Number:

MEWBOU042PIT

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

	· · · · · · · · · · · · · · · · · · ·	J	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
195570	Floor Composite	soil	2009-05-11	08:45	2009-05-12

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

Michael Alfall
Dr. Blair Leftwich, Director

#### Standard Flags

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

### Case Narrative

Samples for project Bradley 31 Fed. Com. #3 were received by TraceAnalysis, Inc. on 2009-05-12 and assigned to work order 9051202. Samples for work order 9051202 were received intact at a temperature of 12.1 deg. C.

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

		$\operatorname{Prep}$	$\operatorname{Prep}$	$_{ m QC}$	${f Analysis}$
Test	Method	Batch	Date	$\operatorname{Batch}$	Date
BTEX	S 8021B	50680	2009-05-12 at 15:54	59380	2009-05-12 at 15:54
Chloride (Titration)	SM 4500-Cl B	50742	2009-05-14 at 13:45	59456	2009-05-14 at 13:45
TPH DRO	Mod. 8015B	50666	2009-05-12 at 09:30	59370	2009-05-12 at 11:00
TPH GRO	S 8015B	50734	2009-05-13 at 16:19	59381	2009-05-13 at 16:19

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 9051202 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: May 15, 2009 MEWBOU042PIT Work Order: 9051202 Bradley 31 Fed. Com. #3

**Analytical Report** 

#### Sample: 195570 - Floor Composite

Laboratory: Midland

Analysis: BTEX QC Batch: 59380 Prep Batch: 50680 Analytical Method: S 8021B
Date Analyzed: 2009-05-12
Sample Preparation: 2009-05-12

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

Page Number: 4 of 12

Eddy Co., NM

		$\mathrm{RL}$			
Parameter	Flag	Result	${ m Units}$	Dilution	$\operatorname{RL}$
Benzene		< 0.0100	mg/Kg	* 1	0.0100
Toluene		< 0.0100	m mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	$\mathrm{mg}/\mathrm{Kg}$	1	0.0100
Xylene		< 0.0100	$\mathrm{mg}/\mathrm{Kg}$	1	0.0100

					$\operatorname{Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.94	mg/Kg	1	2.00	97	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.49	mg/Kg	1	2.00	74	45.2 - 144.3

#### Sample: 195570 - Floor Composite

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 59456 Prep Batch: 50742 Analytical Method: SM 4500-Cl B Date Analyzed: 2009-05-14 Sample Preparation: 2009-05-14

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

		RL			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

#### Sample: 195570 - Floor Composite

Laboratory: Midland

Analysis: TPH DRO QC Batch: 59370 Prep Batch: 50666 Analytical Method: Mod. 8015B Date Analyzed: 2009-05-12 Sample Preparation: 2009-05-12

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

		m RL			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	RL
DRO		< 50.0	m mg/Kg	1	50.0

Report Date: May 15, 2009

MEWBOU042PIT

Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 5 of 12 Eddy Co., NM

Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	$egin{array}{c} \mathbf{Spike} \ \mathbf{Amount} \end{array}$	Percent Recovery	$egin{array}{c} { m Recovery} \\ { m Limits} \end{array}$
n-Triacontane		110	mg/Kg	1	100	110	13.2 - 219.3

Sample: 195570 - Floor Composite

Laboratory: Midland

Analysis: TPH GRO QC Batch: 59381 Prep Batch: 50734

Analytical Method: S 8015B Date Analyzed: Sample Preparation: 2009-05-13

2009-05-13

Prep Method: S 5035 Analyzed By: ME

ME

Prepared By:

RT

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

					$_{ m Spike}$	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	52 - 117

Method Blank (1)

QC Batch: 59370

QC Batch: 59370 Prep Batch: 50666 Date Analyzed: 2009-05-12 QC Preparation: 2009-05-12

Analyzed By: LD Prepared By: LD

MDL

		11121		
Parameter	$\operatorname{Flag}$	$\operatorname{Result}$	${ m Units}$	m RL
DRO		< 5.86	mg/Kg	50

					Spike	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		81.0	mg/Kg	1	100	81	13 - 178.5

Method Blank (1)

QC Batch: 59380

QC Batch: 59380 Prep Batch: 50680 Date Analyzed: 2009-05-12 QC Preparation: 2009-05-12

Analyzed By: ME Prepared By: ME

MDL

Parameter Flag		$\operatorname{Units}$	RL
	< 0.00100	mg/Kg	0.01
	< 0.00100	m mg/Kg	0.01
	< 0.00110	mg/Kg	0.01
	Flag	<0.00100 <0.00100	< 0.00100   mg/Kg $< 0.00100   mg/Kg$

continued ...

Report Date: May 15, 2009 MEWBOU042PIT

Work Order: 9051202

Bradley 31 Fed. Com. #3

Page Number: 6 of 12

Eddy Co., NM

method	blank	continued		

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Parameter	$\operatorname{Flag}$	$\operatorname{Result}$	$\operatorname{Units}$	$\mathrm{RL}$
Xylene		< 0.00360	mg/Kg	0.01

					$\mathbf{Spike}$	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	${\bf Amount}$	Recovery	Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.76	mg/Kg	1	2.00	88	51.9 - 128.1

#### Method Blank (1)

QC Batch: 59381

QC Batch: 59381 Date Analyzed: 2009-05-13 Analyzed By: ME

Prep Batch: 50734

QC Preparation: 2009-05-13

Prepared By: ME

MDL	
-----	--

Parameter	$\operatorname{Flag}$	Result	${f Units}$	$\operatorname{RL}$
GRO		< 0.482	mg/Kg	1

					$\mathbf{Spike}$	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.85	mg/Kg	1	2.00	92	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.79	${ m mg/Kg}$	1	2.00	90	45.7 - 118.9

#### Method Blank (1)

QC Batch: 59456

QC Batch: 59456 Prep Batch: 50742 Date Analyzed: 2009-05-14 QC Preparation: 2009-05-14

Analyzed By: AR Prepared By: AR

MDL

Parameter	Flag	Result	Units	RL
Chloride		<2.18	mg/Kg	4

#### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 50666

59370 Date Analyzed: QC Preparation: 2009-05-12

2009-05-12

Analyzed By: LD Prepared By: LD

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	278	${ m mg/Kg}$	1	250	< 5.86	111	57.4 - 133.4

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

Report Date: May 15, 2009

MEWBOU042PIT

Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 7 of 12 Eddy Co., NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	Limit
DRO	276	mg/Kg	1	250	< 5.86	110	57.4 - 133.4	1	20

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

	LCS	LCSD			$\mathbf{Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	${f Limit}$
n-Triacontane	95.2	100	mg/Kg	1	100	95	100	48.5 - 146.7

#### Laboratory Control Spike (LCS-1)

QC Batch:

59380

Date Analyzed:

2009-05-12

Analyzed By: ME

Prep Batch: 50680

QC Preparation: 2009-05-12

Prepared By: ME

	LCS			Spike	Matrix		Rec.
Param	Result	${ m Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
Benzene	2.01	mg/Kg	1	2.00	< 0.00100	100	72.7 - 129.8
Toluene	2.00	mg/Kg	1	2.00	< 0.00100	100	71.6 - 129.6
Ethylbenzene	1.97	mg/Kg	1	2.00	< 0.00110	98	70.8 - 129.7
Xylene	5.86	mg/Kg	1	6.00	< 0.00360	98	70.9 - 129.4

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

	LCSD			$_{ m Spike}$	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.90	mg/Kg	1	2.00	< 0.00100	95	72.7 - 129.8	6	20
Toluene	1.92	mg/Kg	1	2.00	< 0.00100	96	71.6 - 129.6	4	20
Ethylbenzene	1.90	mg/Kg	1	2.00	< 0.00110	95	70.8 - 129.7	4	20
Xylene	5.69	mg/Kg	1	6.00	< 0.00360	95	70.9 - 129.4	3	20

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

	LCS	LCSD			$\mathbf{Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	$\operatorname{Limit}_{-}$
Trifluorotoluene (TFT)	1.97	2.00	mg/Kg	1	2.00	98	100	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.85	1.87	mg/Kg	1	2.00	92	94	55.2 - 128.9

#### Laboratory Control Spike (LCS-1)

QC Batch:

59381

Prep Batch: 50734

Date Analyzed:

2009-05-13 QC Preparation: 2009-05-13

Analyzed By: ME Prepared By: ME

	LCS			Spike	Matrix		${ m Rec.}$
Param	$\mathbf{Result}$	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
GRO	14.3	mg/Kg	1	20.0	< 0.482	72	60.5 - 100.1

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

Report Date: May 15, 2009 MEWBOU042PIT

Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 8 of 12 Eddy Co., NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	14.0	mg/Kg	1	20.0	< 0.482	70	60.5 - 100.1	2	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	$\operatorname{Rec}$ .	Rec.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	1.90	1.87	mg/Kg	1	2.00	95	94	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.91	1.89	mg/Kg	1	2.00	96	94	66.1 - 107.3

#### Laboratory Control Spike (LCS-1)

QC Batch: 59456 Date Analyzed:

2009-05-14

Analyzed By: AR Prepared By:

Prep Batch:

50742

QC Preparation: 2009-05-14

	LCS			$\mathbf{Spike}$	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	97.2	mg/Kg	1	100	< 2.18	97	85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	98.5	mg/Kg	1	100	<2.18	98	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: 195575

QC Batch:

Date Analyzed:

2009-05-12

Analyzed By: LD Prepared By: LD

Prep Batch: 50666

QC Preparation: 2009-05-12

MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit  $\overline{\text{DRO}}$ 202 250 19.4 35.2 - 167.1 mg/Kg 1  $\overline{73}$ 

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$\operatorname{Limit}$
DRO	1	165	mg/Kg	1	250	19.4	66	35.2 - 167.1	20	20

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

continued ...

<sup>&</sup>lt;sup>1</sup>MS/MSD RPD out of RPD Limits Use LCS/LCSD to demonstrate analysis is under control.

Report Date: May 15, 2009

MEWBOU042PIT

Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 9 of 12 Eddy Co., NM

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	$\mathbf{Units}$	Dil.	Amount	Rec.	Rec.	$\operatorname{Limit}$
n-Triacontane	118	107	mg/Kg	1	100	118	107	34.5 - 178.4

Matrix Spike (MS-1) Spiked Sample: 195575

QC Batch:

59380

Date Analyzed:

2009-05-12

Analyzed By: ME

Prep Batch: 50680

QC Preparation: 2009-05-12

Prepared By: ME

	MS			Spike	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
Benzene	1.88	mg/Kg	1	2.00	< 0.00100	94	58.6 - 165.2
Toluene	1.86	mg/Kg	1	2.00	< 0.00100	93	64.2 - 153.8
Ethylbenzene	1.91	mg/Kg	1	2.00	< 0.00110	96	61.6 - 159.4
Xylene	5.57	mg/Kg	1	6.00	< 0.00360	93	64.4 - 155.3

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.92	mg/Kg	1	2.00	< 0.00100	96	58.6 - 165.2	2	20
Toluene	1.91	mg/Kg	1	2.00	< 0.00100	96	64.2 - 153.8	3	20
Ethylbenzene	1.95	mg/Kg	1	2.00	< 0.00110	98	61.6 - 159.4	<b>2</b>	20
Xylene	5.72	mg/Kg	1	6.00	< 0.00360	95	64.4 - 155.3	3	20

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

	MS	MSD			$\mathbf{Spike}$	MS	MSD	$\operatorname{Rec}$ .
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.00	2.04	mg/Kg	1	2	100	102	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.58	1.60	$_{ m mg/Kg}$	1	2	79	80	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 195575

QC Batch:

59381

Date Analyzed:

2009-05-13

Analyzed By: ME

Prep Batch: 50734

QC Preparation: 2009-05-13

Prepared By: ME

	MS			$\mathbf{Spike}$	Matrix		${ m Rec.}$
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
GRO	20.7	mg/Kg	1	20.0	5.9871	74	12.8 - 175.2

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

Report Date: May 15, 2009

MEWBOU042PIT

Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 10 of 12 Eddy Co., NM

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	24.8	mg/Kg	1	20.0	5.9871	94	12.8 - 175.2	18	20

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

	MS	MSD			$\operatorname{Spike}$	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	${f Limit}$
Trifluorotoluene (TFT)	1.85	1.89	mg/Kg	1	2	92	94	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.59	2.98	mg/Kg	1	2	80	149	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 195575

QC Batch: 59456 Prep Batch: 50742 Date Analyzed: 2009-05-14 QC Preparation: 2009-05-14 Analyzed By: AR Prepared By: AR

	MS			$_{ m Spike}$	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit
Chloride	5080	mg/Kg	50	5000	<109	102	85 - 115

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

	MSD			$\mathbf{Spike}$	Matrix		$\operatorname{Rec}$ .		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	5140	mg/Kg	50	5000	<109	103	85 - 115	1	20

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

Standard (CCV-1)

QC Batch: 59370

Date Analyzed: 2009-05-12

Analyzed By: LD

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	290	116	80 - 120	2009-05-12

Standard (CCV-2)

QC Batch: 59370

Date Analyzed: 2009-05-12

Analyzed By: LD

			CCVs	CCVs	$\operatorname{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	293	117	80 - 120	2009-05-12

Report Date: May 15, 2009 MEWBOU042PIT Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 11 of 12 Eddy Co., NM

#### Standard (CCV-1)

QC Batch: 59380

Date Analyzed: 2009-05-12

Analyzed By: ME

Param	$\operatorname{Flag}$	Units	CCVs True Conc.	CCVs Found Conc.	$egin{array}{c}  ext{CCVs} \  ext{Percent} \  ext{Recovery} \end{array}$	Percent Recovery Limits	$egin{array}{c}  ext{Date} \  ext{Analyzed} \end{array}$
Benzene		mg/Kg	0.100	0.0965	96	80 - 120	2009-05-12
Toluene		mg/Kg	0.100	0.0954	95	80 - 120	2009-05-12
Ethylbenzene		mg/Kg	0.100	0.0949	95	80 - 120	2009-05-12
Xylene		mg/Kg	0.300	0.284	95	80 - 120	2009-05-12

#### Standard (CCV-2)

QC Batch: 59380

Date Analyzed: 2009-05-12

Analyzed By: ME

			CCVs	$\operatorname{CCVs}$	CCVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.102	102	80 - 120	2009-05-12
Toluene		mg/Kg	0.100	0.0993	99	80 - 120	2009-05-12
Ethylbenzene		$_{ m mg/Kg}$	0.100	0.100	100	80 - 120	2009-05-12
Xylene		mg/Kg	0.300	0.302	101	80 - 120	2009-05-12

#### Standard (CCV-1)

QC Batch: 59381

Date Analyzed: 2009-05-13

Analyzed By: ME

			CCVs	$\mathbf{CCVs}$	CCVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	${ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
$\overline{\text{GRO}}$		mg/Kg	1.00	0.935	94	80 - 120	2009-05-13

#### Standard (CCV-2)

QC Batch: 59381

Date Analyzed: 2009-05-13

Analyzed By: ME

			$\mathrm{CCVs}$	$\mathrm{CCVs}$	$\mathrm{CCVs}$	${f Percent}$	
			${f True}$	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.828	83	80 - 120	2009-05-13

#### Standard (ICV-1)

QC Batch: 59456

Date Analyzed: 2009-05-14

Analyzed By: AR

Report Date: May 15, 2009 MEWBOU042PIT Work Order: 9051202 Bradley 31 Fed. Com. #3 Page Number: 12 of 12

Eddy Co., NM

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	$\operatorname{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride	,	mg/Kg	100	101	101	85 - 115	2009-05-14

Standard (CCV-1)

QC Batch: 59456

Date Analyzed: 2009-05-14

Analyzed By: AR

			$\operatorname{CCVs}$	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2009-05-14

LAB Order ID # 905 1202

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Page	of	1
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# TraceAnalysis, Inc.

email, lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 **Lubbock, Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 200 East Sunset Rd , Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 6015 Harns Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260

email. lab@trace	analys	315.CO	111							1 (80	JU) :	378-1296									1 (	888)	588-	3443							
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MEWBOUC Floor Composite	########	########	########	soil	S 8021B	Benzene	71-43-2	BRL	l	J
MEWBOUC Floor Composite	########	#######	#######	soil	S 8021B	Toluene	108-88-3	BRL	ι	J
MEWBOUC Floor Composite	#######	#######	#######	soil	S 8021B	Ethylbenze	100-41-4	BRL	L	j
MEWBOUC Floor Composite	#######	########	########	soil	S 8021B	Total Xylen	1330-20-7	BRL	ι	J
MEWBOUC Floor Composite	########	########	########	soil	S 8021B	Trifluoroto	70-00-8		1.94	
MEWBOUC Floor Composite	#######	########	########	soil	S 8021B	4-Bromoflu	460-00-4		1.49	
MEWBOUC Floor Composite	########	#######	########	soil	SM 4500-C	Chloride	16887-00-6	BRL	j	
MEWBOUC Floor Composite	########	########	########	soil	Mod. 8015	DRO	68334-30-5	BRL	J	
MEWBOUC Floor Composite	#######	########	########	soil	Mod. 8015	n-Triaconta	638-68-6		110	
MEWBOUC Floor Composite	########	########	########	soil	S 8015B	GRO	86290-81-5	BRL	ι	J
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mg/Kg	0.001	1	0.001	0.01	9051202
mg/Kg	0.001	1	0.001	0.01	9051202
mg/Kg	0.0011	1	0.0011	0.01	9051202
mg/Kg	0.0036	1	0.0036	0.01	9051202
mg/Kg	0	1	0	0.01	9051202
mg/Kg	0	1	0	0.01	9051202
mg/Kg	2.18	50	109	200	9051202
mg/Kg	5.861	1	5.86	. 50	9051202
mg/Kg	0	1	0	50	9051202
mg/Kg	0.4817	1	0.482	1	9051202
mg/Kg	0	1	0	1	9051202
mg/Kg	0	1	0	1	9051202

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Report Date: December 3, 2009 Work Order: 9111607 Page Number: 1 of 2

# **Summary Report**

Kyle Summers Talon LPE-Artesia 104 Hermosa Dr. Artesia, NM 88210

Report Date: December 3, 2009

Work Order: 9111607

Project Location: Eddy Co., NM

Project Name: Bradley 31 Fed. Com. #3

Project Number: 700738.017.01

			Date	$\operatorname{Time}$	$\operatorname{Date}$
Sample	Description	Matrix	Taken	Taken	Received
214956	P-Comp.	soil	2009-11-12	09:15	2009-11-13

			BTEX		TPH 418.1	TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	TRPHC	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
214956 - P-Comp.	< 0.0200	< 0.0200	< 0.0200	< 0.0200	315	84.1	2.84

#### Sample: 214956 - P-Comp.

Param	Flag	Result	Units	RL
SPLP Silver		< 0.00300	m mg/L	0.00300
SPLP Arsenic		< 0.0100	m mg/L	0.0100
SPLP Barium		0.448	m mg/L	0.100
SPLP Cadmium		< 0.00500	m mg/L	0.00500
SPLP Chromium		< 0.00500	mg/L	0.00500
SPLP Cyanide		< 0.0150	m mg/L	0.0150
SPLP Fluoride		0.270	m mg/L	0.200
SPLP Mercury		< 0.000200	m mg/L	0.000200
Nitrate-N		< 0.200	mg/L	0.200
Naphthalene		< 0.000200	m mg/L	0.000200
Acenaphthylene		< 0.000200	mg/L	0.000200
Acenaphthene		< 0.000200	mg/L	0.000200
Dibenzofuran		< 0.000200	mg/L	0.000200
Fluorene		< 0.000200	m mg/L	0.000200
Anthracene		< 0.000200	m mg/L	0.000200
Phenanthrene		< 0.000200	$_{ m mg/L}$	0.000200
Fluoranthene		< 0.000200	mg/L	0.000200
Pyrene		< 0.000200	mg/L	0.000200

continued ...

sample 214956 continued . . .

Param	Flag	Result Uni	its RL
Benzo(a)anthracene	<0.0	000200 mg/	/L 0.000200
Chrysene	<0.0	000200 mg/	/L 0.000200
Benzo(b)fluoranthene	<0.0	000200 mg/	
Benzo(k)fluoranthene	<0.0	000200 mg/	/L 0.000200
Benzo(a)pyrene	<0.0	000200 mg/	/L 0.000200
Indeno(1,2,3-cd)pyrene	<0.0	000200 mg/	
Dibenzo(a,h)anthracene	<0.0	000200 mg/	/L 0.000200
Benzo(g,h,i)perylene	<0.0	000200 mg/	/L 0.000200
SPLP Lead	<	0.0100 mg/	/L 0.0100
Total PCB	<0.0	000500 mg/	/L 0.000500
Aroclor 1016 (PCB-1016)	<0.0	000500 mg/	/L 0.000500
Aroclor 1221 (PCB-1221)	<0.0	000500 mg/	/L 0.000500
Aroclor 1232 (PCB-1232)	<0.0	000500 mg/	/L 0.000500
Aroclor 1242 (PCB-1242)	<0.0	000500 mg/	/L 0.000500
Aroclor 1248 (PCB-1248)	<0.0	000500 mg/	/L 0.000500
Aroclor 1254 (PCB-1254)	<0.0	000500 mg/	/L 0.000500
Aroclor 1260 (PCB-1260)	<0.0	000500 mg/	/L 0.000500
Aroclor 1268 (PCB-1268)	<0.0	000500 mg/	/L 0.000500
SPLP Selenium	<	0.0500 mg/	/L 0.0500
SPLP U	<	0.0500 mg/	/L 0.0500
Vinyl Chloride		$<1.00$ $\mu g$	/L 1.00
1,1-Dichloroethene		$<1.00$ $\mu g_{j}$	/L 1.00
Methylene chloride		14.6 $\mu g_{f}$	/L 5.00
1,1-Dichloroethane		$<1.00$ $\mu g_{/}$	/L 1.00
1,2-Dichloroethane (EDC)		$<1.00$ $\mu g_{/}$	/L 1.00
Chloroform		$<1.00$ $\mu g/$	
1,1,1-Trichloroethane		$<1.00$ $\mu g_{/}$	/L 1.00
Benzene		$<1.00$ $\mu g/$	
Carbon Tetrachloride		$<1.00$ $\mu g_{/}$	/L 1.00
Trichloroethene (TCE)		$<1.00$ $\mu g_{/}$	
Toluene		1.10 $\mu g_{/}$	
1,1,2-Trichloroethane		$<1.00$ $\mu g_{f}$	
1,2-Dibromoethane (EDB)		$<1.00$ $\mu g_{f}$	/L 1.00
Tetrachloroethene (PCE)		$<1.00$ $\mu g_{j}$	/L 1.00
Ethylbenzene		$<1.00$ $\mu g_{j}$	/L 1.00
m,p-Xylene		1.96 $\mu g_{\mu}$	/L 1.00
o-Xylene		$<1.00$ $\mu g_{i}$	
1,1,2,2-Tetrachloroethane		$<1.00$ $\mu g_{\mu}$	/L 1.00

LAB Order ID#	

Page	/_	of	
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Trace	Analy	vsis,	Inc.
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email: lab@traceanalysis.com

8701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 5602 Basin Street, Suite A1 Midland, Texas. 79703 Tel (432) 689-6301 Fax (432) 689-6313 200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 BloAquatic Testing 2501 Mayes Rd., Ste 100 Carrollton, Texas 75006 Tel (972) 242-7750

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5002 Basin Street State A1

432 • 089 • 6301

FAX 432 • 689 • 6313

6015 Hamis Park vair Suite 110 - Ft No.th Texas 76132

217 • 201 • 5260

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# Certifications

**WBENC:** 237019

HUB:

1752439743100-86536

**DBE:** VN 20657

**NCTRCA** WFWB38444Y0909

#### NELAP Certifications

**Lubbock:** T104704219-08-TX

El Paso:

T104704221-08-TX LELAP-02002

Midland: T104704392-08-TX

LELAP-02003 Kansas E-10317

# Analytical and Quality Control Report

**Kyle Summers** Talon LPE-Artesia 104 Hermosa Dr. Artesia, NM, 88210

Report Date: December 3, 2009

Work Order: 9111607

Project Location: Eddy Co., NM

Project Name:

Bradley 31 Fed. Com. #3

Project Number:

700738.017.01

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

			Date	111116	Date
Sample	Description	Matrix	Taken	Taken	Received
214956	P-Comp.	soil	2009-11-12	09:15	2009-11-13

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

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

#### Standard Flags

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

## Case Narrative

Samples for project Bradley 31 Fed. Com. #3 were received by TraceAnalysis, Inc. on 2009-11-13 and assigned to work order 9111607. Samples for work order 9111607 were received intact at a temperature of 4.0 deg. C.

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

		$\mathbf{Prep}$	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	55826	2009-11-16 at 13:44	65331	2009-11-16 at 13:44
SPLP Ag	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP As	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP Ba	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP Cd	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP Cr	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP Cyanide	SM 4500-CN C,E	56100	2009-11-30 at 12:00	65644	2009-11-30 at 14:00
SPLP Fluoride	E 300.0	55992	2009-11-20 at 13:23	65514	2009-11-21 at 00:29
SPLP Hg	S 7470A	55913	2009-11-19 at 09:47	65446	2009-11-19 at 16:28
SPLP NO3 (IC)	E 300.0	55992	2009-11-20 at 13:23	65514	2009-11-21 at 00:29
SPLP PAH	S 8270C	55996	2009-11-20 at 15:00	65518	2009-11-23 at 13:48
SPLP Pb	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP PCB	S 8082	55902	2009-11-19 at 11:30	65425	2009-11-19 at 11:38
SPLP Se	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP U	S 6010B	56174	2009-12-03 at 07:56	65737	2009-12-03 at 11:49
SPLP Volatiles	S 8260B	56014	2009-11-23 at 12:00	65547	2009-11-23 at 12:00
TPH 418.1	E 418.1	55904	2009-11-19 at 11:00	65427	2009-11-19 at 13:51
TPH DRO - NEW	Mod. 8015B	55831	2009-11-16 at 15:00	65337	2009-11-16 at 19:00
TPH GRO	S 8015B	55826	2009-11-16 at 13:44	65332	2009-11-16 at 13:44

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 9111607 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 4 of 40 Eddy Co., NM

# **Analytical Report**

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: BTEX QC Batch: 65331 Prep Batch: 55826 Analytical Method: S analyzed: 20 Sample Preparation: 20

S 8021B 2009-11-16 2009-11-16 Prep Method: S 5035 Analyzed By: ER Prepared By: ER

RL

Parameter	${f Flag}$	Result	${f Units}$	Dilution	RL
Benzene		< 0.0200	mg/Kg	1	0.0200
Toluene		< 0.0200	mg/Kg	1	0.0200
Ethylbenzene		< 0.0200	mg/Kg	1	0.0200
Xylene		< 0.0200	mg/Kg	1	0.0200

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	71.8 - 112
4-Bromofluorobenzene (4-BFB)		2.29	mg/Kg	1	2.00	114	72.8 - 115

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Ag QC Batch: 65737 Prep Batch: 56174 Analytical Method: S 6010B
Date Analyzed: 2009-12-03
SPLP Extraction: 2009-12-03
Sample Preparation: 2009-12-03

Prep Method: SPLP 1312
Analyzed By: RR
Prepared By: KV
Prepared By: KV

RL

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP As QC Batch: 65737 Prep Batch: 56174 Analytical Method: S 6010B

Date Analyzed: 2009-12-03

SPLP Extraction: 2009-12-03

Sample Preparation: 2009-12-03

Prep Method: SPLP 1312
Analyzed By: RR
Prepared By: KV
Prepared By: KV

RL

Parameter	Flag	Result	Units	Dilution	RL
SPLP Arsenic		< 0.0100	m mg/L	1	0.0100

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 5 of 40 Eddy Co., NM

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Ba QC Batch: 65737 Prep Batch: 56174

Analytical Method: Date Analyzed: SPLP Extraction:

S 6010B 2009-12-03 2009-12-03

2009-12-03

Prep Method: **SPLP 1312** Analyzed By: RRPrepared By: KV Prepared By: KV

RL

Sample Preparation:

Dilution RLParameter Flag Result Units 0.100SPLP Barium 0.448 mg/L 1

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Cd QC Batch: 65737 Prep Batch: 56174

Analytical Method: Date Analyzed: SPLP Extraction:

S 6010B 2009-12-03 2009-12-03 Prep Method: **SPLP 1312** Analyzed By: RRPrepared By: KV

KV

Prepared By:

Sample Preparation: 2009-12-03

RL

Dilution Parameter Flag Result Units RL0.00500 SPLP Cadmium < 0.00500 mg/L 1

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Cr QC Batch: 65737 Prep Batch: 56174

Analytical Method: Date Analyzed: SPLP Extraction:

Sample Preparation:

S 6010B 2009-12-03 2009-12-03 2009-12-03 Prep Method: **SPLP 1312** Analyzed By: RR

Prepared By: KV Prepared By: KV

Prep Method:

**SPLP 1312** 

RL

Dilution RLParameter Flag Result Units SPLP Chromium < 0.00500 mg/L 0.00500 1

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Cyanide QC Batch: 65644 56100 Prep Batch:

Analytical Method: SM 4500-CN C,E Date Analyzed: **SPLP Extraction:** 

2009-11-30 Analyzed By: AH2009-11-22 Prepared By: AHSample Preparation: 2009-11-30 Prepared By: AH

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 6 of 40 Eddy Co., NM

		$\mathbf{RL}$			
Parameter	Flag	Result	Units	Dilution	RL
SPLP Cyanide		< 0.0150	mg/L	1	0.0150

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Fluoride QC Batch: 65514 Prep Batch: 55992

Analytical Method: Date Analyzed: SPLP Extraction:

E 300.0 2009-11-21 2009-11-19

2009-11-20

SPLP 1312 Prep Method: Analyzed By: SS

SS Prepared By: Prepared By: SS

RL

Sample Preparation:

Parameter	$\operatorname{Flag}$	Result	Units	Dilution	RL
SPLP Fluoride		0.270	mg/L	1	0.200

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Hg QC Batch: 65446 Prep Batch: 55913

Analytical Method: Date Analyzed:

Sample Preparation:

S 7470A 2009-11-19 2009-11-19 Prep Method: N/A Analyzed By: TP

TP Prepared By:

		RL			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	RL
SPLP Mercury		< 0.000200	m mg/L	1	0.000200

#### Sample: 214956 - P-Comp.

Laboratory:

Nitrate-N

Lubbock Analysis: SPLP NO3 (IC)

QC Batch: 65514 Prep Batch: 55992

Analytical Method: E 300.0 Date Analyzed: 2009-11-21 SPLP Extraction: 2009-11-19 Sample Preparation:

Prep Method: **SPLP 1312** Analyzed By: SS Prepared By:

2009-11-20

SS Prepared By: SS

Parameter Flag

RLResult Units < 0.200 mg/L

Dilution 1

RL0.200 Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 7 of 40 Eddy Co., NM

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP PAH Analytical Method: S 8270C Prep Method: **SPLP 1312** 

QC Batch: 65518 Date Analyzed: 2009-11-23 Analyzed By: MN Prep Batch: 55996 SPLP Extraction: 2009-11-19 Prepared By: MN Sample Preparat

tion:	2009-11-20	Prepared By:	MN
RL			

		$\kappa_{ m L}$			
Parameter	Flag	$\mathbf{Result}$	$\mathbf{Units}$	Dilution	RL
Naphthalene		< 0.000200	mg/L	1	0.000200
Acenaphthylene		< 0.000200	m mg/L	1	0.000200
Acenaphthene		< 0.000200	mg/L	1	0.000200
Dibenzofuran		< 0.000200	mg/L	1	0.000200
Fluorene		< 0.000200	$_{ m mg/L}$	1	0.000200
Anthracene		< 0.000200	mg/L	1	0.000200
Phenanthrene		< 0.000200	m 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	$_{ m mg/L}$	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)pervlene		< 0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	$egin{array}{c} \mathbf{Spike} \ \mathbf{Amount} \end{array}$	Percent Recovery	$egin{array}{c}  ext{Recovery} \  ext{Limits} \end{array}$
2-Fluorobiphenyl		0.0323	mg/L	1	0.0800	40	37.4 - 123
Nitrobenzene-d5		0.0375	$_{ m mg/L}$	1	0.0800	47	34.3 - 130
Terphenyl-d14		0.0571	$_{ m mg/L}$	1	0.0800	71	10 - 252

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Pb Prep Method: SPLP 1312 Analytical Method: S 6010B QC Batch: 65737 Analyzed By: RRDate Analyzed: 2009-12-03

Prep Batch: 56174 SPLP Extraction: 2009-12-03 Prepared By: KV Sample Preparation: 2009-12-03 Prepared By: KV

RLParameter Flag Result Units Dilution RLSPLP Lead < 0.0100 mg/L 0.0100

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Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 8 of 40 Eddy Co., NM

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP PCB QC Batch: 65425 Prep Batch: 55902 Analytical Method: Date Analyzed: SPLP Extraction:

S 8082 2009-11-19 2009-11-18 Prep Method: SPLP 1312 Analyzed By: DS Prepared By: DS

Prepared By: DS
Prepared By: DS

RL

Sample Preparation: 2009-11-19

		101			
Parameter	Flag	Result	Units	Dilution	RL
Total PCB	-	< 0.000500	mg/L	1	0.000500
Aroclor 1016 (PCB-1016)		< 0.000500	m 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	$_{ m mg/L}$	1	0.000500

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Deca chlorobiphenyl		0.000469	mg/L	1	0.000500	94	10 - 128

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP Se QC Batch: 65737 Prep Batch: 56174 Analytical Method: S 6010B Date Analyzed: 2009-12-03 SPLP Extraction: 2009-12-03 Sample Preparation: 2009-12-03

Prep Method: SPLP 1312
Analyzed By: RR
Prepared By: KV
Prepared By: KV

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: SPLP U QC Batch: 65737 Prep Batch: 56174 Analytical Method: S 6010B
Date Analyzed: 2009-12-03
SPLP Extraction: 2009-12-03
Sample Preparation: 2009-12-03

Prep Method: SPLP 1312
Analyzed By: RR
Prepared By: KV

KV

Prepared By:

Report Date: December 3, 2009 700738.017.01

Work Order: 9111607

Bradley 31 Fed. Com. #3

Page Number: 9 of 40

Eddy Co., NM

		RL			
Parameter	$\operatorname{Flag}$	Result	Units	Dilution	$\mathrm{RL}$
SPLP U		< 0.0500	mg/L	1	0.0500

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: **SPLP Volatiles** Analytical Method: S 8260B Prep Method: **SPLP 1312** QC Batch: 65547 Date Analyzed: 2009-11-23 Analyzed By: KB Prep Batch: 56014 SPLP Extraction: 2009-11-20 Prepared By: KB Sample Preparation: 2009-11-23 Prepared By: KB

		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Vinyl Chloride		<1.00	$\mu \mathrm{g}/\mathrm{L}$	1	1.00
1,1-Dichloroethene		<1.00	$\mu { m g}/{ m L}$	1	1.00
Methylene chloride		14.6	$\mu { m g}/{ m L}$	1	5.00
1,1-Dichloroethane		<1.00	$\mu { m g}/{ m L}$	1	1.00
1,2-Dichloroethane (EDC)		<1.00	$\mu { m g}/{ m L}$	1	1.00
Chloroform		<1.00	$\mu { m g/L}$	1	1.00
1,1,1-Trichloroethane		<1.00	$\mu { m g/L}$	1	1.00
Benzene		<1.00	$\mu \mathrm{g}/\mathrm{L}$	1	1.00
Carbon Tetrachloride		< 1.00	$\mu { m g}/{ m L}$	1	1.00
Trichloroethene (TCE)		<1.00	$\mu { m g}/{ m L}$	1	1.00
Toluene		1.10	$\mu { m g/L}$	1	1.00
1,1,2-Trichloroethane		< 1.00	$\mu { m g/L}$	1	1.00
1,2-Dibromoethane (EDB)		< 1.00	$\mu { m g}/{ m L}$	1	1.00
Tetrachloroethene (PCE)		< 1.00	$\mu { m g}/{ m L}$	1	1.00
Ethylbenzene		<1.00	$\mu { m g}/{ m L}$	1	1.00
m,p-Xylene		1.96	$\mu { m g}/{ m L}$	1	1.00
o-Xylene		<1.00	$\mu { m g}/{ m L}$	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	$\mu { m g/L}$	1	1.00

					$_{ m Spike}$	Percent	Recovery
Surrogate	$\mathbf{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane	*****	52.8	$\mu \mathrm{g/L}$	1	50.0	106	92.3 - 115
Toluene-d8		49.5	$\mu { m g}/{ m L}$	1	50.0	99 '	89.8 - 109
4-Bromofluorobenzene (4-BFB)		47.8	$\mu { m g}/{ m L}$	1	50.0	96	89.5 - 112

Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: **TPH 418.1** Analytical Method: Prep Method: N/A E 418.1 QC Batch: 65427 2009-11-19 Date Analyzed: Analyzed By: CMPrep Batch: 55904 Sample Preparation: 2009-11-19 Prepared By: CM

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 10 of 40

Eddy Co., NM
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		RL			
Parameter	Flag	Result	$\mathbf{Units}$	Dilution	RL
TRPHC		315	mg/Kg	1	10.0

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: TPH DRO - NEW QC Batch: 65337 Prep Batch: 55831 Analytical Method: Mod. 8015B Date Analyzed: 2009-11-16 Sample Preparation: 2009-11-16 Prep Method: N/A Analyzed By: AW Prepared By: AW

		$\mathrm{RL}$			
Parameter	Flag	Result	Units	Dilution	RL
DRO		84.1	mg/Kg	1	50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		110	mg/Kg	1	100	110	38.6 - 167

#### Sample: 214956 - P-Comp.

Laboratory: Lubbock

Analysis: TPH GRO QC Batch: 65332 Prep Eatch: 55826 Analytical Method: S 8015B Date Analyzed: 2009-11-16 Sample Preparation: 2009-11-16

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

		m RL			
Parameter	Flag	Result	$\mathbf{Units}$	Dilution	RL
GRO		2.84	mg/Kg	1	2.00

					Spike	Percent	Recovery
Surrogate	$\mathbf{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.06	mg/Kg	1	2.00	103	86.9 - 113
4-Bromofluorobenzene (4-BFB)		2.31	mg/Kg	1	2.00	116	56.2 - 130

#### Method Blank (1) QC Batch: 65331

QC Batch: 65331 Prep Batch: 55826

Date Analyzed: 2009-11-16 QC Preparation: 2009-11-16 Analyzed By: ER Prepared By: ER

Parameter	Flag	$egin{array}{c}  ext{MDL} \  ext{Result} \end{array}$	Units	RL
1 arameter	riag	rtesuit	Omes	N.L.
Benzene		< 0.00331	mg/Kg	0.02
Toluene		< 0.00528	mg/Kg	0.02

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Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 11 of 40 Eddy Co., NM

method blank continued	1			
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THE STATE OF THE CONTRACTOR	•••	MDL		
Parameter	Flag	Result	Units	RL
Ethylbenzene		< 0.00448	mg/Kg	0.02
Xylene		< 0.00456	mg/Kg	0.02

					$\mathbf{Spike}$	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	${ m Units}$	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.83	mg/Kg	1	2.00	92	71.8 - 112
4-Bromofluorobenzene (4-BFB)		1.86	mg/Kg	1	2.00	93	72.8 - 115

Method Blank (1) QC Batch: 65332

QC Batch: 65332 Prep Batch: 55826 Date Analyzed: 2009-11-16 QC Preparation: 2009-11-16 Analyzed By: ER Prepared By: ER

MDL

Parameter	Flag	Result	Units	RL
GRO		< 0.403	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	$egin{array}{l} { m Recovery} \\ { m Limits} \end{array}$
Trifluorotoluene (TFT)		1.80	mg/Kg	1	2.00	90	86.9 - 113
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	56.2 - 130

Method Blank (1) QC Batch: 65337

QC Batch: 65337 Prep Batch: 55831 Date Analyzed: 2009-11-16 QC Preparation: 2009-11-16

Analyzed By: AW Prepared By: AW

MDL Promite

					$\mathbf{Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		127	mg/Kg	1	100	127	38.6 - 167

Method Blank (1) QC Batch: 65425

QC Batch: 65425 Prep Batch: 55902

Date Analyzed: 2009-11-19 QC Preparation: 2009-11-19 Analyzed By: DS Prepared By: DS Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 12 of 40 Eddy Co., NM

				MDL			
Parameter		Flag		Result	Ţ	Jnits	RL
Total PCB				< 0.000125		ng/L	0.0005
Aroclor 1016 (PCB-101	(6)			< 0.000122		ng/L	0.0005
Aroclor 1221 (PCB-122				< 0.000118		ng/L	0.0005
Aroclor 1232 (PCB-123				< 0.0000459		ng/L	0.0005
Aroclor 1242 (PCB-124				< 0.000125		ng/L	0.0005
Aroclor 1248 (PCB-124				< 0.0000546		ng/L	0.0005
Aroclor 1254 (PCB-125				< 0.0000569		ng/L	0.0005
Aroclor 1260 (PCB-126				< 0.0000331		$_{ m ng/L}$	0.0005
Aroclor 1268 (PCB-126			×	< 0.0000282		ng/L	
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Deca chlorobiphenyl		0.000470	mg/L	1	0.000500	94	10 - 128
					The law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of the law of		
Method Blank (1)	QC Batch:	65427					
QC Batch: 65427		Date	e Analyzed:	2009-11-19		Analyz	ed By: CM
Prep Batch: 55904			Preparation:	2009-11-19		Prepare	
Trep Daten. 90504		<b>Q</b> ∪	i reparation.	2005-11-13		Trepare	od Dy. OM
<b>D</b> .	771			DL			D.
Parameter	Flag	<u> </u>	Res		Uni		RL
TRPHC			<5	.28	mg/l	\x	10
Method Blank (1)	QC Batch:	65446					
QC Batch: 65446		Dat	e Analyzed:	2009-11-19		A nalva	ed By: TP
Prep Batch: 55913			Preparation:	2009-11-19		Prepar	
				MDL			
Parameter	Fl	ag		Result	Uni	ts	$\mathrm{RL}$
SPLP Mercury			<0.0	000329	mg,	/L	0.0002
Method Blank (1)	QC Batch:	65514					
, ,	40 Daton.						
QC Batch: 65514			e Analyzed:	2009-11-21			zed By: SS
Prep Batch: 55992		QC	Preparation:	2009-11-20		Ргера	red By: SS
_				MDL			
Parameter	Flag	5		esult	Un		RL
Nitrate-N			<b>~</b> 0	0700	$_{ m mg}$	Π.	0.2

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 13 of 40

700738.017.01

Eddy Co., NM

Method Blank (1)

QC Batch: 65514

QC Batch: 65514

2009-11-21 Date Analyzed: QC Preparation:

Analyzed By: SS

Prep Batch: 55992

2009-11-20

Prepared By: SS

MDL

Parameter Flag Result Units RLSPLP Fluoride < 0.0889 mg/L 0.2

Method Blank (1)

QC Batch: 65518

QC Batch: 65518

2009-11-23 Date Analyzed: 2009-11-20

Analyzed By: MN

Prep Batch: 55996

QC Preparation:

Prepared By: MN

MDI

		MDL		
Parameter	Flag	Result	Units	RL
Naphthalene	4,	< 0.0000853	mg/L	0.0002
Acenaphthylene		< 0.0000768	$\mathrm{mg/L}$	0.0002
Acenaphthene		< 0.000103	$\mathrm{mg/L}$	0.0002
Dibenzofuran		< 0.000200	mg/L	0.0002
Fluorene		< 0.0000861	$\mathrm{mg/L}$	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	$\mathrm{mg/L}$	0.0002
Benzo(b)fluoranthene		< 0.000134	$\mathrm{mg/L}$	0.0002
Benzo(k)fluoranthene		< 0.000227	$\mathrm{mg/L}$	0.0002
Benzo(a)pyrene		< 0.000200	$\mathrm{mg/L}$	0.0002
Indeno(1,2,3-cd)pyrene		< 0.000253	$\mathrm{mg/L}$	0.0002
Dibenzo(a,h)anthracene		< 0.000180	mg/L	0.0002
Benzo(g,h,i)perylene		< 0.000158	mg/L	0.0002

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorobiphenyl		0.0385	mg/L	1	0.0800	48	10 - 146
Nitrobenzene-d5		0.0456	m mg/L	1	0.0800	57	10 - 141
Terphenyl-d14		0.0671	mg/L	1	0.0800	. 84	10 - 266

Method Blank (1)

QC Batch: 65547

QC Batch: 65547 Prep Batch: 56014 Date Analyzed: 2009-11-23 QC Preparation: 2009-11-23

Analyzed By: KB Prepared By: KB

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 14 of 40 Eddy Co., NM

		MDL		
Parameter	Flag	Result	Units	RL
Bromochloromethane	Tiag	<0.177	$\mu_{ m g/L}$	1
Dichlorodifluoromethane		< 0.208	$\mu \mathrm{g}/\mathrm{L}$	1
Chloromethane (methyl chloride)		< 0.134	$\mu \mathrm{g}/\mathrm{L}$	1
Vinyl Chloride		< 0.135	$\mu \mathrm{g}/\mathrm{L}$	1
Bromomethane (methyl bromide)		<1.23	$\mu \mathrm{g}/\mathrm{L}$	5
Chloroethane		< 0.182	$\mu \mathrm{g}/\mathrm{L}$	1
Trichlorofluoromethane		< 0.0610	$\mu { m g/L}$	1
Acetone		< 5.50	$\mu { m g/L}$	10
Iodomethane (methyl iodide)		< 0.107	$_{ m \mu g/L}$	5
Carbon Disulfide		0.0900	$\mu { m g}/{ m L}$	1
Acrylonitrile		< 0.0970	$\mu { m g}/{ m L}$	1
2-Butanone (MEK)		< 0.531	$\mu { m g/L}$	5
4-Methyl-2-pentanone (MIBK)		< 0.421	$\mu { m g}/{ m L}$	5
2-Hexanone		< 0.168	$\mu { m g}/{ m L}$	5
trans 1,4-Dichloro-2-butene		< 0.517	$_{ m \mu g/L}^{ m r.g}$	10
1,1-Dichloroethene		< 0.136	$\mu { m g}/{ m L}$	1
Methylene chloride		< 0.649	$\mu { m g}/{ m L}$	5
MTBE		< 0.123	$\mu { m g}/{ m L}$	1
trans-1,2-Dichloroethene		< 0.126	$\mu { m g}/{ m L}$	1
1,1-Dichloroethane		< 0.0600	$\mu  m g/L$	1
cis-1,2-Dichloroethene		< 0.151	$\mu { m g}/{ m L}$	1
2,2-Dichloropropane		< 0.180	$\mu { m g}/{ m L}$	1
1,2-Dichloroethane (EDC)		< 0.113	$\mu \mathrm{g}/\mathrm{L}$	1
Chloroform		< 0.141	$\mu { m g}/{ m L}$	1
1,1,1-Trichloroethane		< 0.116	$\mu { m g}/{ m L}$	1
1,1-Dichloropropene		< 0.0540	$\mu { m g}/{ m L}$	1
Benzene		< 0.146	$\mu { m g}/{ m L}$	1
Carbon Tetrachloride		< 0.0790	$\mu { m g}/{ m L}$	1
1,2-Dichloropropane		< 0.111	$\mu { m g}/{ m L}$	1
Trichloroethene (TCE)		< 0.117	$\mu { m g}/{ m L}$	1
Dibromomethane (methylene bromide)		< 0.140	$\mu { m g}/{ m L}$	1
Bromodichloromethane		< 0.161	$\mu { m g}/{ m L}$	1
2-Chloroethyl vinyl ether		< 0.388	$\mu { m g}/{ m L}$	5
cis-1,3-Dìchloropropene		< 0.0890	$\mu { m g}/{ m L}$	1
trans-1,3-Dichloropropene		< 0.0760	$\mu \mathrm{g}/\mathrm{L}$	1
Toluene		0.100	$\mu \mathrm{g}/\mathrm{L}$	1
1,1,2-Trichloroethane		< 0.135	$\mu \mathrm{g}/\mathrm{L}$	1
1,3-Dichloropropane		< 0.0990	$\mu \mathrm{g/L}$	1
Dibromochloromethane (TDR)		<0.0900	$\mu \mathrm{g/L}$	1
1,2-Dibromoethane (EDB)		<0.0700	$\mu \mathrm{g/L}$	1
Tetrachloroethene (PCE)		< 0.270	$\mu \mathrm{g/L}$	1
Chlorobenzene		< 0.0540	$\mu \mathrm{g/L}$	1
1,1,1,2-Tetrachloroethane		< 0.0990	$\mu \mathrm{g/L}$	1
Ethylbenzene		0.0500	$\mu \mathrm{g/L}$	1
m,p-Xylene		< 0.0940	$\mu { m g/L}$	1

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Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 15 of 40 Eddy Co., NM

method	blank	continued	

		$\operatorname{MDL}$		
Parameter	$\operatorname{Flag}$	Result	Units	RL
Bromoform		< 0.0570	$\mu { m g/L}$	1
Styrene		< 0.0910	$\mu { m g}/{ m L}$	1
o-Xylene		< 0.0960	$\mu \mathrm{g}/\mathrm{L}$	1
1,1,2,2-Tetrachloroethane		< 0.125	$\mu { m g}/{ m L}$	1
2-Chlorotoluene		< 0.0570	$\mu { m g}/{ m L}$	1
1,2,3-Trichloropropane		< 0.458	$\mu \mathrm{g}/\mathrm{L}$	1
Isopropylbenzene		< 0.0850	$\mu { m g}/{ m L}$	1
Bromobenzene		< 0.106	$\mu \mathrm{g}/\mathrm{L}$	1
n-Propylbenzene		0.0700	$\mu \mathrm{g}/\mathrm{L}$	1
1,3,5-Trimethylbenzene		0.0600	$\mu \mathrm{g}/\mathrm{L}$	1
tert-Butylbenzene		< 0.107	$\mu { m g}/{ m L}$	1
1,2,4-Trimethylbenzene		< 0.0990	$\mu { m g}/{ m L}$	1
1,4-Dichlorobenzene (para)		< 0.217	$\mu { m g}/{ m L}$	1
sec-Butylbenzene		0.120	$\mu { m g}/{ m L}$	1
1,3-Dichlorobenzene (meta)		< 0.0690	$\mu { m g}/{ m L}$	1
p-Isopropyltoluene		0.120	$\mu { m g}/{ m L}$	1
4-Chlorotoluene		< 0.0940	$\mu { m g}/{ m L}$	1
1,2-Dichlorobenzene (ortho)		< 0.100	$\mu { m g}/{ m L}$	1
n-Butylbenzene		0.180	$\mu { m g}/{ m L}$	1
1,2-Dibromo-3-chloropropane		< 0.690	$\mu { m g}/{ m L}$	5
1,2,3-Trichlorobenzene		< 0.135	$\mu \mathrm{g}/\mathrm{L}$	5
1,2,4-Trichlorobenzene		< 0.155	$\mu { m g}/{ m L}$	5
Naphthalene		< 0.594	$\mu \mathrm{g}/\mathrm{L}$	5
Hexachlorobutadiene		< 0.248	$\mu { m g}/{ m L}$	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane	<u> </u>	49.9	$\mu \mathrm{g/L}$	1	50.0	100	92.3 - 115
Toluene-d8		48.4	$\mu { m g}/{ m L}$	1	50.0	97	89.8 - 109
4-Bromofluorobenzene (4-BFB)		48.0	$\mu { m g}/{ m L}$	1	50.0	96	89.5 - 112

Method Blank (1) QC Batch: 65644

QC Batch: 65644Prep Batch: 56100 Date Analyzed: 2009-11-30 QC Preparation: 2009-11-30

Analyzed By: AH Prepared By: AH

MDL Parameter Result Flag

Units RLSPLP Cyanide < 0.0148 0.015 mg/L

Report Date: December 700738.017.01	er 3, 2009	Work Orde Bradley 31 F		Page Number: 16 of 40 Eddy Co., NM		
Method Blank (1)	QC Batch: 65737					
QC Batch: 65737 Prep Batch: 56174		v	2009-12-03 2009-12-03	·	Analyzed By: Prepared By:	RR KV
			MDL			
Parameter	Flag		esult	Units		RL
SPLP Cadmium	1944 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 1844 4 184	<0.0	0140	mg/L	·	0.005
Method Blank (1)	QC Batch: 65737					
QC Batch: 65737		Date Analyzed: 2	2009-12-03		Analyzed By:	RR
Prep Batch: 56174			2009-12-03		Prepared By:	KV
			DL			
Parameter SPLP Lead	Flag	Res <0.003		Units		RL
				mg/L		0.01
Method Blank (1)	QC Batch: 65737					
QC Batch: 65737 Prep Batch: 56174		·	2009-12-03 2009-12-03		Analyzed By: Prepared By:	RR KV
<b>.</b>			4DL			
Parameter SPLP Selenium	Flag		esult	Units		RL
SPLP Selenium		<0.0	0131	mg/L		0.05
Method Blank (1)	QC Batch: 65737					
QC Batch: 65737 Prep Batch: 56174			009-12-03 009-12-03		Analyzed By: Prepared By:	RR KV
Parametei	Tilo m		IDL	TT!4-		D.I.
SPLP Arsenic	Flag		sult M30	Units		$\frac{\mathrm{RL}}{0.01}$
Method Blank (1)	QC Batch: 65737	<0.00		mg/L		•
QC Batch: 65737		·	009-12-03		Analyzed By:	RR
Prep Batch: 56174		QC Preparation: 2	009-12-03		Prepared By:	KV

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 17 of 40 Eddy Co., NM

Analyzed By: ER

Prepared By: ER

Parameter	Flag	$egin{array}{c}  ext{MDL} \  ext{Result} \end{array}$	$\mathbf{U}_{\mathbf{nits}}$	RL	
SPLP Barium	riag	< 0.00170	mg/L	0.1	
			3,		
Method Blank (1)	QC Batch: 65737				
QC Batch. 65737		Date Analyzed: 2009-12-03		Analyzed By: RR	
Prep Batch: 56174		QC Preparation: 2009-12-03		Prepared By: KV	
		MDL			
Parameter	Flag	Result	Units	RL	
SPLP Chromium		<0.000900	m mg/L	0.005	
Method Blank (1)	QC Batch: 65737				
QC Batch: 65737		Date Analyzed: 2009-12-03	•	Analyzed By: RR	
Prep Batch: 56174		QC Preparation: 2009-12-03		Prepared By: KV	
		MDL			
Parameter	Flag	Result	Units	RL	
SPLP Silver		<0.00210	mg/L	0.003	
Method Blank (1)	QC Batch: 65737				
QC Batch: 65737		Date Analyzed: 2009-12-03		Analyzed By: RR	
Prep Batch: 56174		QC Preparation: 2009-12-03		Prepared By: KV	
		MDL			
Parameter	Flag	Result	Units	RL 0.05	
SPLP U	SPLP U		<0.0105 mg/L		

Param	LCS Result	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec.	Rec. Limit
Benzene	2.06	mg/Kg	1	2.00	< 0.00331	103	78.9 - 113
Toluene	2.10	mg/Kg	1	2.00	< 0.00528	105	78.3 - 116
Ethylbenzene	2.01	mg/Kg	1	2.00	< 0.00448	100	79.1 - 117

QC Preparation: 2009-11-16

2009-11-16

Date Analyzed:

continued ...

Laboratory Control Spike (LCS-1)

65331

QC Batch:

Prep Batch: 55826

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 18 of 40 Eddy Co., NM

control spikes continued ...

	LCS			Spike	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	${f Limit}$
Xylene	6.05	mg/Kg	1	6.00	< 0.00456	101	79.6 - 116

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

	LCSD			$\mathbf{Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$\mathbf{Limit}$
Benzene	1.97	mg/Kg	1	2.00	< 0.00331	98	78.9 - 113	4	20
Toluene	1.98	mg/Kg	1	2.00	< 0.00528	99	78.3 - 116	6	20
Ethylbenzene	1.93	mg/Kg	1	2.00	< 0.00448	96	79.1 - 117	4	20
Xylene	5.77	mg/Kg	1	6.00	< 0.00456	96	79.6 - 116	5	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.98	1.87	mg/Kg	1	2.00	99	94	70.8 - 111
4-Bromofluorobenzene (4-BFB)	1.98	1.89	mg/Kg	1	2.00	99	94	68.3 - 117

# Laboratory Control Spike (LCS-1)

QC Batch:

65332 Prep Batch: 55826 Date Analyzed:

2009-11-16 QC Preparation: 2009-11-16 Analyzed By: ER

Prepared By: ER

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
GRO	18.9	mg/Kg	1	20.0	< 0.403	94	72.6 - 121

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$	RPD	$\operatorname{Limit}$
GRO	19.3	mg/Kg	1	20.0	< 0.403	96	72.6 - 121	2	20

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

	LCS	LCSD			$_{ m Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	$\mathbf{Limit}$
Trifluorotoluene (TFT)	1.78	1.77	mg/Kg	1	2.00	89	88	75.2 - 112
4-Bromofluorobenzene (4-BFB)	1.92	1.87	mg/Kg	1	2.00	96	94	54.9 - 133

# Laboratory Control Spike (LCS-1)

QC Batch:

65337

Prep Batch: 55831

Date Analyzed:

2009-11-16

Analyzed By: AW

QC Preparation: 2009-11-16

Prepared By: AW

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 19 of 40 Eddy Co., NM

Param	LCS Result	Units	Dil.	$\begin{array}{c} {\bf Spike} \\ {\bf Amount} \end{array}$	Matrix Result	Rec.	Rec. Limit
DRO	230	mg/Kg	1	250	<4.66	92	70 - 130

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

	LCSD			$\mathbf{Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	225	mg/Kg	1	250	< 4.66	90	70 - 130	2	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	$\mathbf{Limit}$
n-Tricosane	112	111	mg/Kg	1	100	112	111	38.6 - 167

# Laboratory Control Spike (LCS-1)

QC Batch: 65425 Prep Batch: 55902 Date Analyzed: 2009-11-19 QC Preparation: 2009-11-19

Analyzed By: DS Prepared By: DS

	LCS			Spike	Matrix		Rec.	
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	${f Limit}$	
Aroclor 1260 (PCB-1260)	0.00175	mg/L	1	0.00200	< 0.0000331	88	10 - 128	

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Aroclor 1260 (PCB-1260)	0.00174	mg/L	1	0.00200	< 0.0000331	87	10 - 128	1	20

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

	LCS	LCSD			$\mathbf{Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	${f Units}$	Dil.	Amount	Rec.	Rec.	${f Limit}$
Deca chlorobiphenyl	0.000490	0.000487	mg/L	1	0.000500	98	97	10 - 128

# Laboratory Control Spike (LCS-1)

QC Batch: 65427 Prep Batch: 55904

65427 I

Date Analyzed: 2009-11-19 QC Preparation: 2009-11-19 Analyzed By: CM Prepared By: CM

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
TRPHC	242	mg/Kg	1	250	< 5.28	97	84.9 - 124

Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 20 of 40 Eddy Co., NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	247	mg/Kg	1	250	< 5.28	99	84.9 - 124	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: 65446 Prep Batch: 55913 Date Analyzed: 2009-11-19 QC Preparation: 2009-11-19 Analyzed By: TP Prepared By: TP

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit SPLP Mercury 0.00434 0.00400 < 0.0000329 108 85 - 115 mg/L 1

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Mercury	0.00432	mg/L	1	0.00400	< 0.0000329	108	85 - 115	0	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: 65514 Prep Batch: 55992 Date Analyzed: 2009-11-21 QC Preparation: 2009-11-20 Analyzed By: SS Prepared By: SS

LCS Spike Matrix Rec. Param Dil. Result Rec. Limit Result Units Amount Nitrate-N 5.21 5.00 < 0.0700 104 90 - 110 mg/L

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Nitrate-N	5.17	mg/L	1	5.00	< 0.0700	103	90 - 110	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: 65514 Prep Batch: 55992 Date Analyzed: 2009-11-21 QC Preparation: 2009-11-20

Analyzed By: SS Prepared By: SS

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700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 21 of 40 Eddy Co., NM

control spikes continued ...

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
	LCS			Spike	Matrix		Rec.
Param	Result	${f Units}$	Dil.	Amount	Result	Rec.	${f Limit}$
SPLP Fluoride	4.80	$_{ m mg/L}$	1	5.00	< 0.0889	96	90 - 110

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$	RPD	Limit
SPLP Fluoride	4.84	mg/L	1	5.00	< 0.0889	97	90 - 110	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: 65518 Prep Batch: 55996 Date Analyzed: 2009-11-23 QC Preparation: 2009-11-20 Analyzed By: MN Prepared By: MN

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
Naphthalene	0.0558	mg/L	1	0.0800	< 0.0000853	70	10 - 141
Acenaphthylene	0.0612	$_{ m mg/L}$	1	0.0800	< 0.0000768	76	10 - 152
Acenaphthene	0.0609	$_{ m mg/L}$	1	0.0800	< 0.000103	76	10 - 151
Dibenzofuran	0.0580	$_{ m mg/L}$	1	0.0800	< 0.000200	72	10 - 148
Fluorene	0.0658	$_{ m mg/L}$	1	0.0800	< 0.0000861	82	10 - 172
Anthracene	0.0605	$_{ m mg/L}$	1	0.0800	< 0.000170	76	19.6 - 172
Phenanthrene	0.0605	mg/L	1	0.0800	< 0.0000884	76	22.5 - 172
Fluoranthene	0.0678	$_{ m mg/L}$	1	0.0800	< 0.0000969	85	17.3 - 187
Pyrene	0.0626	mg/L	1	0.0800	< 0.0000855	78	14.9 - 199
Benzo(a)anthracene	0.0604	mg/L	1	0.0800	< 0.0000703	76	19.4 - 185
Chrysene	0.0684	mg/L	1	0.0800	< 0.000113	86	18.4 - 188
Benzo(b)fluoranthene	0.0577	$_{ m mg/L}$	1	0.0800	< 0.000134	72	10 - 193
Benzo(k)fluoranthene	0.0874	mg/L	1	0.0800	< 0.000227	109	27.8 - 196
Benzo(a)pyrene	0.0905	mg/L	1	0.0800	< 0.000200	113	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0723	m mg/L	1	0.0800	< 0.000253	90	10 - 198
${ m Dibenzo(a,h)}$ anthracene	0.0705	$\mathrm{mg/L}$	1	0.0800	< 0.000180	88	10 - 172
Benzo(g,h,i)perylene	0.0703	${ m mg/L}$	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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$	RPD	Limit
Naphthalene	0.0530	mg/L	1	0.0800	< 0.0000853	66	10 - 141	5	20
Acenaphthylene	0.0582	mg/L	1	0.0800	< 0.0000768	73	10 - 152	5	20
Acenaphthene	0.0573	mg/L	1	0.0800	< 0.000103	72	10 - 151	6	20

continued ...

Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 22 of 40 Eddy Co., NM

control spikes continued ...

	LCSD			Spike	Matrix		$\operatorname{Rec}$ .		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Dibenzofuran	0.0552	mg/L	1	0.0800	< 0.000200	69	10 - 148	5	20
Fluorene	0.0627	$_{ m mg/L}$	1	0.0800	< 0.0000861	78	10 - 172	5	20
Anthracene	0.0584	$_{ m mg/L}$	1	0.0800	< 0.000170	73	19.6 - 172	4	20
Phenanthrene	0.0582	m mg/L	1	0.0800	< 0.0000884	73	22.5 - 172	4	20
Fluoranthene	0.0654	m mg/L	1	0.0800	< 0.0000969	82	17.3 - 187	4	20
Pyrene	0.0584	m mg/L	1	0.0800	< 0.0000855	73	14.9 - 199	7	20
Benzo(a)anthracene	0.0559	mg/L	1	0.0800	< 0.0000703	70	19.4 - 185	8	20
Chrysene	0.0631	mg/L	1	0.0800	< 0.000113	79	18.4 - 188	8	20
Benzo(b)fluoranthene	0.0593	m mg/L	1	0.0800	< 0.000134	74	10 - 193	3	20
Benzo(k)fluoranthene	0.0853	mg/L	1	0.0800	< 0.000227	107	27.8 - 196	2	20
Benzo(a)pyrene	0.0861	m mg/L	1	0.0800	< 0.000200	108	12.4 - 205	5	20
Indeno(1,2,3-cd)pyrene	0.0665	mg/L	1	0.0800	< 0.000253	83	10 - 198	8	20
Dibenzo(a,h)anthracene	0.0671	mg/L	1	. 0.0800	< 0.000180	84	10 - 172	5	20
Benzo(g,h,i)perylene	0.0656	mg/L	1	0.0800	< 0.000158	82	10 - 186	7	20

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

	LCS	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
Surrogate	Result	Result	${f Units}$	Dil.	Amount	Rec.	Rec.	Limit
2-Fluorobiphenyl	0.0521	0.0490	$_{ m mg/L}$	1	0.0800	65	61	10 - 165
Nitrobenzene-d5	0.0598	0.0560	mg/L	1	0.0800	75	70	10 - 157
Terphenyl-d14	0.0573	0.0540	mg/L	1	0.0800	72	68	10 - 220

# Laboratory Control Spike (LCS-1)

 QC Batch:
 65547
 Date Analyzed:
 2009-11-23

 P1ep Batch:
 56014
 QC Preparation:
 2009-11-23

Analyzed By: KB Prepared By: KB

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$
1,1-Dichloroethene	55.0	$\mu { m g}/{ m L}$	1	50.0	< 0.136	110	76.9 - 123
Benzene	51.1	$\mu { m g/L}$	1	50.0	< 0.146	102	79.5 - 119
Trichloroethene (TCE)	53.4	$\mu { m g/L}$	1	50.0	< 0.117	107	75.3 - 122
Toluene	50.9	$\mu { m g}/{ m L}$	1	50.0	0.1	102	81.4 - 118
Chlorobenzene	50.8	$\mu { m g}/{ m L}$	1	50.0	< 0.0540	102	78.2 - 117

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
1,1-Dichloroethene	51.4	$\mu \mathrm{g/L}$	1	50.0	< 0.136	103	76.9 - 123	7	20
Benzene	50.4	$\mu \mathrm{g/L}$	1	50.0	< 0.146	101	79.5 - 119	1	20
Trichloroethene (TCE)	52.3	$\mu \mathrm{g}/\mathrm{L}$	1	50.0	< 0.117	105	75.3 - 122	2	20
Toluene	50.1	$\mu { m g}/{ m L}$	1	50.0	0.1	100	81.4 - 118	2	20

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Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 23 of 40 Eddy Co., NM

control	snikes	continued				
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	$_{ m LCSD}$			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chlorobenzene	49.1	$\mu \mathrm{g/L}$	1	50.0	< 0.0540	98	78.2 - 117	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
Dibromofluoromethane	50.4	49.0	$\mu g/L$	1	50.0	101	98	91.4 - 114
Toluene-d8	50.8	49.9	$\mu { m g}/{ m L}$	1	50.0	102	100	89.8 - 108
4-Bromofluorobenzene (4-BFB)	49.1	47.2	$\mu { m g}/{ m L}$	1	50.0	98	94	90.2 - 116

# Laboratory Control Spike (LCS-1)

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

	LCS			Spike	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit
SPLP Cadmium	0.247	mg/L	1	0.250	< 0.00140	99	85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Cadmium	0.247	mg/L	1	0.250	< 0.00140	99	85 - 115	0	

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: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By. RR Prepared By: KV

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP Lead	0.511	mg/L	1	0.500	< 0.00320	102	85 - 115

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

	LCSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Lead	0.518	m mg/L	1	0.500	< 0.00320	104	85 - 115	1	20

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 24 of 40 Eddy Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Result Amount Rec. Limit SPLP Selenium 0.424mg/L 0.500 < 0.0131 85 85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$	RPD	$_{ m Limit}$
SPLP Selenium	0.447	mg/L	1	0.500	< 0.0131	89	85 - 115	5	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: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

LCS Spike Rec. Matrix Param Result Units Dil. Amount Result Rec. Limit 85 - 115 SPLP Arsenic 0.476 mg/L 1 0.500 < 0.00430 95

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$_{ m Limit}$
SPLP Arsenic	0.480	m mg/L	1	0.500	< 0.00430	96	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: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03

Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit SPLP Barium 0.994 mg/L 1.00 < 0.00170 99 85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Barium	1.02	mg/L	1	1.00	< 0.00170	102	85 - 115	3	20

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 25 of 40 Eddy Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: QC Preparation:

2009-12-03 2009-12-03 Analyzed By: RR

Prepared By: KV

	LCS			Spike	Matrix		$\operatorname{Rec}$ .
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP Chromium	0.0980	mg/L	1	0.100	< 0.000900	98	85 - 115

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

	LCSD			$\mathbf{Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Chromium	0.0990	mg/L	1	0.100	< 0.000900	99	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:

65737 Prep Batch: 56174 Date Analyzed:

2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR

Prepared By: KV

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
SPLP Silver	0.123	mg/L	1	0.125	< 0.00210	98	85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Silver	0.124	mg/L	1	0.125	< 0.00210	99	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:

65737 Prep Batch: 56174 Date Analyzed: QC Preparation:

2009-12-03 2009-12-03 Analyzed By: RR Prepared By: KV

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit 0.515 SPLP U mg/L 1 0.500 < 0.0105 103 90 - 110

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$	RPD	Limit
SPLP U	0.518	mg/L	1	0.500	< 0.0105	104	90 - 110	1	

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 26 of 40 Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 214956

QC Batch: Prep Batch: 55826

65331

2009-11-16 Date Analyzed: QC Preparation: 2009-11-16

Analyzed By: ER Prepared By: ER

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
Benzene	2.07	mg/Kg	1	2.00	< 0.00331	104	61.5 - 134
Toluene	2.16	mg/Kg	1	2.00	< 0.00528	108	64.2 - 143
Ethylbenzene	2.20	mg/Kg	1	2.00	< 0.00448	110	67.7 - 152
Xylene	6.68	mg/Kg	1	6.00	< 0.00456	111	67.8 - 152

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

	MSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{Result}$	$_{ m Units}$	Dil.	Amount	Result	$\operatorname{Rec}$ .	Limit	RPD	$\operatorname{Limit}$
Benzene	2.05	mg/Kg	1	2.00	< 0.00331	102	61.5 - 134	1	20
Toluene	2.18	mg/Kg	1	2.00	< 0.00528	109	64.2 - 143	1	20
Ethylbenzene	2.22	mg/Kg	1	2.00	< 0.00448	111	67.7 - 152	1	20
Xylene	6.75	mg/Kg	1	6.00	< 0.00456	112	67.8 - 152	1	20

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

	MS	MSD			$\mathbf{Spike}$	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.03	2.05	mg/Kg	1	2	102	102	65.3 - 134
4-Bromofluorobenzene (4-BFB)	2.14	2.18	mg/Kg	1	<b>2</b>	107	109	61.9 - 143

Matrix Spike (MS-1) Spiked Sample: 214956

QC Batch: Prep Batch: 55826

65332

Date Analyzed:

2009-11-16 QC Preparation: 2009-11-16 Analyzed By: ER Prepared By: ER

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
GRO	24.1	mg/Kg	1	20.0	2.84	106	34.1 - 160

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	1	4.34	mg/Kg	1	20.0	2.84	8	34.1 - 160	139	20

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

continued ...

<sup>&</sup>lt;sup>1</sup>Matrix spike recovery and RPD out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: December 3, 2009 700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 27 of 40 Eddy Co., NM

matrix spikes continued									
······································		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	$\operatorname{Rec}$ .	Rec.	${f Limit}$
50 + 6 · 1 (CDDCD)		1.00	0.375	*** or / I/ or	1	2	93	19	56.9 - 137
Trifluorotoluene (TFT)	-	1.86	0.575	$_{ m mg/Kg}$	Ţ	Z	93	19	50.9 - 157

Matrix Spike (MS-1) Spiked Sample: 214956

QC Batch: 65337 Prep Batch: 55831 Date Analyzed: 2009-11-16 QC Preparation: 2009-11-16 Analyzed By: AW Prepared By: AW

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	271	mg/Kg	1	250	84.1	75	70 - 130

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	$_{ m Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	273	mg/Kg	1	250	84.1	76	70 - 130	1	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	$_{ m Limit}$
n-Tricosane	103	102	mg/Kg	1	100	103	102	38.6 - 167

Matrix Spike (MS-1) Spiked Sample: 215044

QC Batch: 65427 Prep Batch: 55904 Date Analyzed: 2009-11-19 QC Preparation: 2009-11-19

Analyzed By: CM Prepared By: CM

	MS			$_{ m Spike}$	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	Limit
TRPHC	360	mg/Kg	1	250	202.73	63	10 - 196

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	$\operatorname{Limit}$
TRPHC	372	mg/Kg	1	250	202.73	68	10 - 196	3	20

<sup>&</sup>lt;sup>2</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>3</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

700738.017.01 Bradley 31 Fed. Com. #3

Page Number: 28 of 40 Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 214956

QC Batch: 65446 Prep Batch: 55913 Date Analyzed: 2009-11-19 QC Preparation: 2009-11-19

Work Order: 9111607

Analyzed By: TP Prepared By: TP

	MS			$\mathbf{Spike}$	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	$\operatorname{Rec}$ .	Limit
SPLP Mercury	0.00452	mg/L	1	0.00400	< 0.0000329	113	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Mercury	0.00457	mg/L	1	0.00400	< 0.0000329	114	75 - 125	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: 214956

QC Batch: 65514 Prep Batch: 55992 Date Analyzed: 2009-11-21 QC Preparation: 2009-11-20 Analyzed By: SS Prepared By: SS

	MS			$\mathbf{Spike}$	Rec.		
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
Nitrate-N	5.01	mg/L	1	5.00	< 0.0700	100	73.6 - 122

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Nitrate-N	4.96	mg/L	1	5.00	< 0.0700	99	73.6 - 122	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: 214956

QC Batch: 65514 Prep Batch: 55992 Date Analyzed: 2009-11-21 QC Preparation: 2009-11-20 Analyzed By: SS Prepared By: SS

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
SPLP Fluoride	4.88	$_{ m mg/L}$	1	5.00	0.27	92	63.5 - 127

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$	RPD	Limit
SPLP Fluoride	4.85	mg/L	1	5.00	0.27	92	63.5 - 127	1	20

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 29 of 40 Eddy Co., NM

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: Prep Batch: 56014

65547 Date Analyzed: 2009-11-23

Analyzed By: KB

QC Preparation: 2009-11-23

Prepared By: KB

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
1,1-Dichloroethene	50.5	$\mu \mathrm{g/L}$	1	50.0	< 0.136	101	66 - 134
Benzene	52.1	$\mu { m g}/{ m L}$	1	50.0	< 0.146	104	81.5 - 124
Trichloroethene (TCE)	49.9	$\mu { m g}/{ m L}$	1	50.0	< 0.117	100	80.5 - 113
Toluene	50.6	$\mu { m g}/{ m L}$	1	50.0	< 0.0600	101	81.6 - 122
Chlorobenzene	50.0	$\mu { m g}/{ m L}$	1	50.0	< 0.0540	100	82.2 - 116

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$\operatorname{Limit}$
1,1-Dichloroethene	51.9	$\mu { m g/L}$	1	50.0	< 0.136	104	66 - 134	3	20
Benzene	52.0	$\mu { m g/L}$	1	50.0	< 0.146	104	81.5 - 124	0	20
Trichloroethene (TCE)	50.3	$\mu { m g}/{ m L}$	1	50.0	< 0.117	101	80.5 - 113	1	20
Toluene	50.6	$\mu { m g}/{ m L}$	1	50.0	< 0.0600	101	81.6 - 122	0	20
Chlorobenzene	51.2	$\mu { m g}/{ m L}$	1	50.0	< 0.0540	102	82.2 - 116	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.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	51.2	52.6	$\mu g/L$	1	50	102	105	84.3 - 127
Toluene-d8	51.9	53.1	$\mu { m g}/{ m L}$	1	50	104	106	90.5 - 107
4-Bromofluorobenzene (4-BFB)	49.1	50.2	$\mu { m g}/{ m L}$	1	50	98	100	88.7 - 120

Matrix Spike (MS-1) Spiked Sample: 214956

QC Batch: Prep Batch: 56100 Date Analyzed: 2009-11-30 QC Preparation: 2009-11-30

Analyzed By: AH Prepared By: AH

	MS			Spike	Matrix		Rec.
Param	Result	$_{ m Units}$	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP Cyanide	12.4	mg/L	1	12.0	< 0.0148	103	80 - 120

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Cyanide	12.2	mg/L	1	12.0	< 0.0148	102	80 - 120	2	20

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 30 of 40 Eddy Co., NM

Matrix Spike (MS-1)

Spiked Sample: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

	MS			$\mathbf{Spike}$	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP Cadmium	0.240	mg/L	1	0.250	< 0.00140	96	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	$_{ m Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	$\operatorname{Limit}$
SPLP Cadmium	0.241	mg/L	1	0.250	< 0.00140	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: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR

Prepared By: KV

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
SPLP Lead	0.480	mg/L	1	0.500	< 0.00320	96	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$\operatorname{Limit}$
SPLP Lead	0.487	mg/L	1	0.500	< 0.00320	97	75 - 125	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: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		$\operatorname{Rec}$ .
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
SPLP Selenium	0.422	m mg/L	1	0.500	< 0.0131	84	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	$_{ m Units}$	Dil.	Amount	Result	Rec.	${f Limit}$	RPD	Limit
SPLP Selenium	0.419	mg/L	1	0.500	< 0.0131	84	75 - 125	1	20

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 31 of 40

Eddy Co., NM

Matrix Spike (MS-1) Spiked Sample: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP Arsenic	0.478	mg/L	1	0.500	< 0.00430	96	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	Limit
SPLP Arsenic	0.477	mg/L	1	0.500	< 0.00430	95	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: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		Rec.
Param	Result	${ m Units}$	Dil.	Amount	Result	Rec.	Limit
SPLP Barium	1.44	mg/L	1	1.00	0.448	99	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	Limit
SPLP Barium	1.45	mg/L	1	1.00	0.448	100	75 - 125	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: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03

Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		Rec.
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP Chromium	0.100	mg/L	1	0.100	0.003	97	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	$\mathbf{Units}$	Dil.	Amount	Result	Rec.	$\mathbf{Limit}$	RPD	$\operatorname{Limit}$
SPLP Chromium	0.0970	mg/L	1	0.100	0.003	94	75 - 125	3	20

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 32 of 40 Eddy Co., NM

Matrix Spike (MS-1)

Spiked Sample: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$
SPLP Silver	0.122	mg/L	1	0.125	< 0.00210	98	75 - 125

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP Silver	0.121	mg/L	1	0.125	< 0.00210	97	75 - 125	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: 214956

QC Batch: 65737 Prep Batch: 56174 Date Analyzed: 2009-12-03 QC Preparation: 2009-12-03 Analyzed By: RR Prepared By: KV

MS Spike Matrix Rec. Param Dil. Result Units Amount Result Limit Rec. SPLP U 0.520 mg/L 0.500 < 0.0105 104 90 - 110

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
SPLP U	0.524	mg/L	1	0.500	< 0.0105	105	90 - 110	1	

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

# Standard (CCV-1)

QC Batch: 65331

Date Analyzed: 2009-11-16

			$\begin{array}{c} \text{CCVs} \\ \text{True} \end{array}$	$\operatorname{CCVs}$ Found	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.102	102	80 - 120	2009-11-16
Toluene		$_{ m mg/Kg}$	0.100	0.104	104	80 - 120	2009-11-16
Ethylbenzene		$_{ m mg/Kg}$	0.100	0.0991	99	80 - 120	2009-11-16
Xylene		mg/Kg	0.300	0.300	100	80 - 120	2009-11-16

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 33 of 40 Eddy Co., NM

Standard (CCV-2)

QC Batch: 65331

Date Analyzed: 2009-11-16

Analyzed By: ER

			CCVs	CCVs	CCVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.103	103	80 - 120	2009-11-16
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2009-11-16
Ethylbenzene		$\mathrm{mg}/\mathrm{Kg}$	0.100	0.0963	96	80 - 120	2009-11-16
Xylene		mg/Kg	0.300	0.291	97	80 - 120	2009-11-16

Standard (CCV-1)

QC Batch: 65332

Date Analyzed: 2009-11-16

Analyzed By: ER

			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.902	90	80 - 120	2009-11-16

Standard (CCV-2)

QC Batch: 65332

Date Analyzed: 2009-11-16

Analyzed By: ER

			$rac{ ext{CCVs}}{ ext{True}}$	${ m CCVs} \ { m Found}$	$rac{ ext{CCVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	$\mathbf{Flag}$	${f Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
$\overline{\text{GRO}}$		mg/Kg	1.00	0.918	92	80 - 120	2009-11-16

Standard (CCV-1)

QC Batch: 65337

Date Analyzed: 2009-11-16

Analyzed By: AW

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	224	90	80 - 120	2009-11-16

Standard (CCV-2)

QC Batch: 65337

Date Analyzed: 2009-11-16

Analyzed By: AW

700738.017.01 Bradley 31 Fed. Com. #3

Page Number: 34 of 40 Eddy Co., NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	80 - 120	2009-11-16
DRO Standard	(CCV 1)	mg/Kg	250	271	108	80 - 120	2009-11

Work Order: 9111607

QC Batch: 65425 Date Analyzed: 2009-11-19 Analyzed By: DS

			CCVs	$\operatorname{CCVs}$	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
A10clor 1242 (PCB-1242)		mg/L	0.400	0.363	91	85 - 115	2009-11-19
A10clor 1254 (PCB-1254)		m mg/L	0.400	0.398	100	85 - 115	2009-11-19
Aroclor 1260 (PCB-1260)		$_{ m mg/L}$	0.400	0.436	109	85 - 115	2009-11-19

Standard (CCV-2)

QC Batch. 65425 Date Analyzed: 2009-11-19 Analyzed By: DS

			$rac{ ext{CCVs}}{ ext{True}}$	${ m CCVs} \ { m Found}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Aroclor 1242 (PCB-1242)		mg/L	0.400	0.361	90	85 - 115	2009-11-19
Aroclor 1254 (PCB-1254)		$_{ m mg/L}$	0.400	0.416	104	85 - 115	2009-11-19
Aroclor 1260 (PCB-1260)		mg/L	0.400	0.383	96	85 - 115	2009-11-19

Standard (ICV-1)

QC Batch: 65427 Date Analyzed: 2009-11-19 Analyzed By: CM

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC		mg/Kg	100	85.2	85	80 - 120	2009-11-19

Standard (CCV-1)

QC Batch: 65427 Date Analyzed: 2009-11-19 Analyzed By: CM

			$\mathrm{CCVs}$	$\mathrm{CCVs}$	$\mathbf{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC		mg/Kg	100	85.5	85	80 - 120	2009-11-19

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Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 35 of 40 Eddy Co., NM

Standard	(CCV-1)
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QC	Batch:	65446
ųυ	Datch:	0044

Data	Analy	mod.	2009-11-	.10
Date	Anan	zea:	2009-11-	.13

Analyzed By	v: TP
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			$\mathrm{CCVs}$	$\operatorname{CCVs}$	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Mercury		$\mathrm{mg/L}$	0.00500	0.00499	100	90 - 110	2009-11-19

# Standard (CCV-2)

$\alpha$	Dotoh.	65446
$\omega$	Batch:	00440

Date Analyzed: 2009-11-19

Analyzed By: TP

			$\mathrm{CCVs}$	CCVs	$\mathbf{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Mercury		mg/L	0.00500	0.00497	99	90 - 110	2009-11-19

# Standard (CCV-1)

QC Batch: 65514

Date Analyzed: 2009-11-21

Analyzed By: SS

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Nitrate-N		m mg/L	5.00	5.13	103	90 - 110	2009-11-21

# Standard (CCV-1)

QC Batch: 65514

Date Analyzed: 2009-11-21

Analyzed By: SS

			CCVs	CCVs	$\operatorname{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Fluoride		m mg/L	5.00	4.77	95	90 - 110	2009-11-21

# Standard (CCV-2)

QC Batch: 65514

Date Analyzed: 2009-11-21

Analyzed By: SS

			$\operatorname{CCVs}$	CCVs	$\operatorname{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Nitrate-N		mg/L	5.00	5.14	103	90 - 110	2009-11-21

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 36 of 40 Eddy Co., NM

# Standard (CCV-2)

QC Batch: 65514

Date Analyzed: 2009-11-21

Analyzed By: SS

			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			$\mathbf{True}$	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Fluoride		$_{ m mg/L}$	5.00	4.87	97	90 - 110	2009-11-21

# Standard (CCV-1)

QC Batch: 65518

Date Analyzed: 2009-11-23

Analyzed By: MN

			$\operatorname{CCVs}$	CCVs	$\mathbf{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Naphthalene		mg/L	60.0	53.2	89	80 - 120	2009-11-23
Acenaphthylene		$_{ m mg/L}$	60.0	51.0	85	80 - 120	2009-11-23
Acenaphthene		$_{ m mg/L}$	60.0	50.4	84	80 - 120	2009-11-23
Dibenzofuran		mg/L	60.0	51.6	86	80 - 120	2009-11-23
Fluorene		m mg/L	60.0	54.6	91	80 - 120	2009-11-23
Anthracene		${ m mg/L}$	60.0	56.5	94	80 - 120	2009-11-23
Phenanthrene		mg/L	60.0	54.2	90	80 - 120	2009-11-23
Fluoranthene		mg/L	60.0	57.3	96	80 - 120	2009-11-23
Pyrene		mg/L	60.0	48.9	82	80 - 120	2009-11-23
Benzo(a)anthracene		mg/L	60.0	50.3	84	80 - 120	2009-11-23
Chrysene		m mg/L	60.0	51.9	86	80 - 120	2009-11-23
Benzo(b)fluoranthene		$_{ m mg/L}$	60.0	50.8	85	80 - 120	2009-11-23
Benzo(k)fluoranthene		mg/L	60.0	63.3	106	80 - 120	2009-11-23
Benzo(a)pyrene		$_{ m mg/L}$	60.0	63.0	105	80 - 120	2009-11-23
Indeno(1,2,3-cd)pyrene		mg/L	60.0	53.8	90	80 - 120	2009-11-23
Dibenzo(a,h)anthracene		mg/L	60.0	54.4	91	80 - 120	2009-11-23
Benzo(g,h,i)perylene		mg/L	60.0	51.6	86	80 - 120	2009-11-23

					Spike	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	$\mathbf{Units}$	Dilution	${f Amount}$	Recovery	$_{ m Limit}$
2-Fluorobiphenyl		48.2	mg/L	1	60.0	80	80 - 120
Nitrobenzene-d5		58.5	mg/L	1	60.0	98	80 - 120
Terphenyl-d14	4	46.2	$_{ m mg/L}$	1	60.0	77	80 - 120

# Standard (CCV-1)

QC Batch: 65547

Date Analyzed: 2009-11-23

Analyzed By: KB

<sup>&</sup>lt;sup>4</sup>8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 37 of 40 Eddy Co., NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	$\begin{array}{c} \text{Date} \\ \text{Analyzed} \end{array}$
Vinyl Chloride		$\mu { m g/L}$	50.0	54.5	109	80 - 120	2009-11-23
1,1-Dichloroethene		$\mu { m g}/{ m L}$	50.0	59.4	119	80 - 120	2009-11-23
Chloroform		$\mu { m g}/{ m L}$	50.0	49.7	99	80 - 120	2009-11-23
1,2-Dichloropropane		$\mu { m g}/{ m L}$	50.0	51.4	103	80 - 120	2009-11-23
Toluene		$\mu { m g}/{ m L}$	50.0	51.8	104	80 - 120	2009-11-23
Chlorobenzene		$\mu { m g}/{ m L}$	50.0	50.9	102	80 - 120	2009-11-23
Ethylbenzene		$\mu { m g}/{ m L}$	50.0	51.3	103	80 - 120	2009-11-23

# Standard (ICV-1)

QC Batch: 65644

Date Analyzed: 2009-11-30

Analyzed By: AH

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Cyanide		mg/L	0.120	0.121	101	80 - 120	2009-11-30

# Standard (CCV-1)

QC Batch: 65644

Date Analyzed: 2009-11-30

Analyzed By: AH

			CCVs	CCVs	CCVs	Percent	
			$\mathbf{True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Cyanide		mg/L	0.120	0.121	101	80 - 120	2009-11-30

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			${f True}$	Found	Percent	Recovery	$\operatorname{Date}$
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Cadmium		mg/L	1.00	1.06	106	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 38 of 40 Eddy Co., NM

			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Lead		$\mathrm{mg/L}$	2.00	2.05	102	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Selenium		m mg/L	1.00	1.02	102	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Arsenic		$_{ m mg/L}$	2.00	2.06	103	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

		*	ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Barium		mg/L	1.00	1.02	102	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			ICVs	ICVs	ICVs -	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Chromium		mg/L	1.00	1.04	104	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

700738.017.01

Work Order: 9111607 Bradley 31 Fed. Com. #3 Page Number: 39 of 40 Eddy Co., NM

			ICVs	<b>ICVs</b>	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Silver		mg/L	0.250	0.253	101	90 - 110	2009-12-03

# Standard (ICV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	${ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP U		mg/L	1.00	1.02	102	90 - 110	2009-12-03

# Standard (CCV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			$\mathbf{CCVs}$	$\mathrm{CCVs}$	$\mathrm{CCVs}$	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Cadmium		mg/L	1.00	0.996	100	90 - 110	2009-12-03

# Standard (CCV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			CCVs	CCVs	$_{ m CCVs}$	Percent	_
			$\operatorname{True}$	Found	Percent	Recovery	$\operatorname{Date}$
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Lead		mg/L	1.00	1.01	101	90 - 110	2009-12-03

#### Standard (CCV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Selenium		mg/L	1.00	0.938	94	90 - 110	2009-12-03

# Standard (CCV-1)

QC Batch: 65737

Date Analyzed: 2009-12-03

Report Date: December 3, 2009 700738.017.01

Bradley 31 Fed. Com. #3

Work Order: 9111607 Page Number: 40 of 40 Eddy Co., NM

		Bradley 51 Fed. Conf. #5					Eddy Co., IVIVI	
Param	Flag	$\operatorname{Units}$	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	
SPLP Arsenic		m mg/L	1.00	0.951	95	90 - 110	2009-12-03	
Standard (CCV	-1)							
QC Batch: 65737 Date Analyzed: 2009-12-03			3	Anal	yzed By: RR			
	-		CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	$\operatorname{Flag}$	${f Units}$	Conc.	Conc.	Recovery	Limits	Analyzed	
SPLP Barium		mg/L	1.00	0.991	99	90 - 110	2009-12-03	
Standard (CCV	-1)							
QC Batch: 65737	7		Date Analyze	d: 2009-12-0	3	Anal	yzed By: RR	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	$\mathbf{Flag}$	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed	
		mg/L	1.00	0.988	99	90 - 110	2009-12-03	

QC Batch:	65737	Date Analyzed:	2009-12-03
QC Daten.	00101	Date maryzeu.	2003-12-00

Analyzed By: RR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{Flag}$	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Silver		mg/L	0.125	0.124	99	90 - 110	2009-12-03

# Standard (CCV-1)

QC Batch:	65737	
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Date Analyzed: 2009-12-03

			CCVs	$\mathbf{CCVs}$	$\mathbf{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP U		mg/L	1.00	1.02	102	90 - 110	2009-12-03

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Page	1	_ of _	/_	

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 **Lubbock, Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 5002 Basın Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 200 East Sunset Rd , Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443

BioAquatic Testing 2501 Mayes Rd , Ste 100 Carrollton, Texas 75006 Tel (972) 242-7750

Company Name: Talon/LPE	Phone #: (43	2)230 - 7673	ANALYSIS REQUEST		
Talon/LPE Address: (Street, City, Zip) 104 W. Hermosa Dr Artesi Contact Person:	Fax#:	-)746-8905	(Circle or Specify Method No.)		
Contact Person:  Kyle Summers  Invoice to:  (If different from above) Mewbourne D  Project #:	E-mail: KSUmmer	rs@talonlpe.com	624 005 Ext(C35) HC Se Hg 6010/200.7 Cr Pb Se Hg Illinity L2 2 6 L2 7 7 If rom standard		
Invoice to: (If different from above) Meurbourne D	il - Chark	es martin	Ext(C35) Hg 6010/2 Pb Se Hg Ny Ny Ny Ny Ny Ny Ny Ny Ny Ny Ny Ny Ny		
Project #:	Project N	lame:	1 624 624 005 Ex 7HC Cr Pb Cr Pb 1 25 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Project Location (including state):	Pradley 3	lame: I Fed Com # 3 Signature:	102 / 8260 / 624 2 / 8260 / 624 2 / 8260 / 624 3 Cd Cr Pb Se H 4s Ba Cd Cr Pb Se H 1 8270 / 625 608 NO2, Alkalinity 5 C + 2 1 61fferent fron		
Eddy County, NM Fyl	L Wilman	Hurry	1 / 8260 1 / 8260 1 / 8260 1 / 8260 1 / 624 8270 8270 8270 1 / 624 1 / 624 1 / 624		
82	matrix MATRIX	PRESERVATIVE SAMPLING	8021 / 602 / 82 8021 / 602 / 826 8021 / 602 / 826 80 / TX1005 / T 15GRO / DRO 70 / 625 als Ag As Ba Cd Cl letals Ag As Ba Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd letals Ag As Ba Cd Cd Cd Cd letals Ag As Ba Cd Cd Cd Cd Cd Cd Cd Cd Cd Cd Cd Cd Cd		
LAB # FIELD CODE CONTAINERS	Volume / Amount WATER SOIL AIR SLUDGE HCI	HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH ICE NONE DATE	MTBE 8021 / 602 / 8260 / 624  GTEX 8020 / 602 / 8260 / 624  GPH 418 / TX1005 / TX1005 Ext(C35)  TPH 8015/GRO / DRC / TVHC  PAH 8270 / 625  Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.  TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles  TCLP Semi Volatiles  TCLP Pesticides  RCI GC/MS Vol 8260 / 624  GC/MS Vol 8260 / 624  GC/MS Semi. Vol 8270 / 625  PCB's 8082 / 608  BOD, TSS, pH  Moisture Content Cl, Fl, S04, NO3, NO2, Alkalinity Na, Ca, Mg, K, TDS, EC  Mill Annual Time if different from standard  Hold		
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Kyl _ Talon 11/13/09	M-S =	Thur LA (11'00') OBS	CABUSE ONLY OF I MA - 100 MIRACO		
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Submittat of samples constitutes agreement to Terms a	ind Conditions listed on reverse	side of C. O. C	Carrier # Carry-in lose Star Z5758253		

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, that existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the atmedards of their section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "methods for chemical analysis of water and waste of the U.S. environmental protection agreecy," with the exception that standards for mercury, organic compounds and non-squeous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. Human Escatth Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. Trancre than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Sashsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be

reasonably measured.

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-(1)	Arsenic (As)	0,1 mg/l
- (2)	Barium (Fa)	1.0 mg/i
~(3)	Cadmium. (Cd)	
~ (4)	Chromines (Ct)	
- (5)	Cyanide (CN)	
~(6)	Flooride (#)	
-(7)	Lead (Pb)	0.05 mg/l
<b>-(8)</b>	Total Mesecary (Hg)	
_(9)	Nitrate (NPO <sub>3</sub> as N)	10.0 mg/l
~(10)	Selenkura (Se)	0.05 mg/l
-àii		
- (12)	Uranhara (I)	0.03 mg/l
(13)	Radioactávity: Combined Radium-226 & Radium-228	,30 pCi/l
(14)	Benzene	0.01 mg/l
~(15)	BeazenePolychleminated biphenyls (PCB's)	0.001 mg/l
(16)	Toluene	0.75 mg/i
(17)		0,01 mg/l
(18)	1,2-dichisomethane (EDC)	
(19)	1,1-dichilamoethylene (1,1-DCE)	0,005 mg/i
(20)	I,1,2,2-tretrachloroethylens (PCE)	0.02 mg/l
(21)	1,1,2-tricihlomethylene (TCE)	
(22)	cthylbenzaene	
(23)	total xylenes	0.62 mg/l
(24)	methylense chloride,	0.1 mg/l
(25)	chlorofosm	
(26)	1,1-dichleuroethane	0,025 mg/l
(27)	ethylene elibromide (EDB)	0.0001 mg/l
(28)	1,1,1-tricikloroethane	
(29)	1,1,2-tricilatoroethane	0.01 mg/l
(30)	1,1,2,2-te-trachloroethane	
(31)	vinyl chloride	
-(32)	PAHs: tostal naphthalene plus monomethylnaphthalenes	(\gm tuon o
(33)	benzo-a-gryreneOther Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Samuel Sam	
B	Other Supplies for Domestic Water Supply	260 0 ma/l
<b>−</b> Ø∑	Chloride (Ch)	Now 8.1
(2)	Iron (Fe)	1 0 mg/l
(3)	Manganers (Min)	Λο me/l
(A)-	Phenols	Nom 200 A
(6) (7)	Sulfate (SQ <sub>2</sub> )	Nam 0 003
		1 August 1 August 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(8)	Total Disserived Solids (TDS)	('gm v.uvv;
(9)	Zinc (Zn)	Name & and o
(10)	pH	ociween o mio y

Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of

# 20.6.2 NMAC

offective 9-26-04.]

Page 2 of 2