

October 27,2008

DEC 222008 OCD-ARTESIA

ÁMARII LO 92I North Bivir's Amarillo, Toxas 78'07 Phune 806,467,0667 Fax 806,467,0622 Mike Bratcher New Mexico Oil Conservation Division District 2 office 1301 W. Grand Artesia, New Mexico 88210

RE: Request for closure of the Bradley "6" Federal Com #1 pit.

30-015-35928

USTIN In July of 2008 Talor

In July of 2008 Talon/LPE was contracted by the Mewbourne Oil Company to perform the pit closure activities at the Bradley "6" Federal Com #1, API# 30-015-35928, Unit C, Sec 6-T19S-R30E, in Eddy county New Mexico. The C-144 for this pit closure was submitted to Mike Bratcher on July 30, 2008 and approved on August 11, 2008.

Talon/LPE completed this pit closure by excavating and hauling the drill cuttings from the brine section of the pit to Lea Land Disposal Facility (permit number WM-01-035). Copies of the waste manifests will be on file at the Talon/LPE office located at 318 E Taylor in Hobbs, New Mexico. After excavation of the brine section was completed, Shelly Tucker with Talon/LPE collected a five point composite sample for laboratory analysis. The sample was sent to Trace Analysis and analyzed in compliance with 19.15. 17.13 NMAC for official analytical results (see attached analytical).

The remainder of the drill cuttings were mixed at not more than a 3:1 ratio to stabilize the cuttings in preparation for trench burial. To mix the material it was moved to the west side of the pit and the east side floor was exposed and cleaned. After the east side of the pit was exposed a five point composite sample was collected, on August 15, 2008 by Shelly Tucker, and sent to Trace Analysis to be analyzed in compliance with 19.15.17.13 NMAC. After mixing the remaining drill cuttings, Mike Bratcher was contacted to witness sampling of the pit contents. Shelly Tucker met with Mike Bratcher on August 18, 2008 to collect a five point composite sample of the mixed drill cuttings. The samples were sent to Trace Analysis and analyzed in compliance with 19.15.17.13 NMAC. After reviewing the analytical for the drill cuttings, it was determined that they could be buried on site. Talon/LPE excavated a burial cell approximately150'x40'x20' in the east side of the existing reserve pit. After lining the burial cell with a 20 mil liner, the drill cuttings were placed in the burial cell and capped with a 20 mil liner. Once the drill cuttings were removed from the west side of the reserve pit, Eb Taylor collected two samples on August 27, 2008 from the pit floor and sent them to Trace Analysis to be analyzed in compliance with19.15.17.13 NMAC for official analytical results (see attached analytical). After analytical results were evaluated for compliance the pit was backfilled, seeded with a BLM #2 seed mix and contoured to promote proper drainage and re-vegetation.

No deed amendment is required due to the fact the BLM is the surface owner, Mewbourne Oil Company will place the burial marker at 32° 41' 41.36"N 104° 00' 51.41"W.

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

AUSTIN 3003 Teir Gary Cove Búileirg C-100 Round Rock, Texas 78064 Phono 512(988,3428 Fax 5 2,989,3487

#9 East Industrial Leop Midland, Toxas 79701 Pirone 432 522,2(33 Fax 437,522,2(80

NEW BRAUNFELS
707 N. Wálnut Ave
Suite 208
New Braunfels Tokas 79:30
Fl. one 2:0,679,0235
Fax 210,568,2191

TÚĽSÁ 9906 čašt 48st Sircet, Ste. 6 Tulse; OK 74146 Phone 9/8 742/0671 Fax 918 742/0876

> HOBBS 318 East Taylor Street Hobbs, New Mexico 88241 Phone 505,39814261 Fax 505,303,4658

ENV.ROMMENTAL CONSULTING ENGINEFRING

> DRILLING CONSTRUCTION EMPRGENCY RESPONSE

Sincerely,

El De

Eb Taylor New Mexico Division Manager Talon/LPE Accepted for record

JAN 0 7 2009

Toll Free: 866 742:0742 www.tälonlpe.com C-144 Final Closure Report - Closure Comp diste 9/3/08
PERMIT NO NA

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

July 21, 200

For engine Fire Stated 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.

		the state of the s							
Pit, Closed-Loop Sy	stem, Below-Grade Tank, or	DEC 5.5.5008							
Proposed Alternative Method	d Permit or Closure Plan Application	OCD-ARTESIA							
Type of action: Permit of a pit, closed-loop	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 submitte below-grade tank, or proposed alternative metho	d for an existing permitted or non-permitted pit d	, closed-loop system,							
Instructions: Please submit one application (Form C-144) per		k or alternative request							
lease be advised that approval of this request does not relieve the operator of invironment. Nor does approval relieve the operator of its responsibility to co	liability should operations result in pollution of surface mply with any other applicable governmental authority	water, ground water or the s rules, regulations or ordinance							
i. Operator:MEWBOURNE OIL COMPANY	OGRID #:14744	_							
Address:PO BOX 5270; HOBBS, NEW MEXICO 88241									
Facility or well name:BRADLEY 6 FEDERAL COM 01									
API Number:30-015-35928									
U/L or Qtr/QtrCSection6 Township									
Center of Proposed Design: Latitude N32 41 41.36	_LongitudeW104* 00* 51.41" NAD:	☑ 1927 🔲 1983							
Surface Owner: 🛛 Federal 🔲 State 🔲 Private 🔲 Tribal Trust or Indian	1 Allotment								
2	(X-)								
	Approved with s	tipulations. See							
Temporary: Drilling Workover	attachment.								
Permanent Emergency Cavitation P&A	,								
☐ Lined ☐ Unlined Liner type: Thickness12mil ☐ LLI	DPE ☑ HDPE ☐ PVC ☐ Other								
String-Reinforced		,							
Liner Seams. Welded Factory Other	Volume: <u> SOOO</u> _bbl_Dimensions: L_12	5_ x W_120_ x D_6							
3. Closed-loop System: Subsection H of 19.15.17 11 NMAC		1							
Type of Operation: P&A Drilling a new well Workover or Dintent)	rilling (Applies to activities which require prior appr	roval of a permit or notice of							
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ (Other								
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ I	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, lin	ner, 6-inch lift and automatic overflow shut-off	ERTERED							
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _									
Liner type: Thicknessmil									
Alternative Method:									
Submittal of an exception request is required. Exceptions must be submi	tted to the Santa Fe Environmental Bureau office for	consideration of approval.							
~									

Final Closure Report

Oil Conservation Division

Page Laf 5

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 residinstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	ence, school	, 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)		
 Signs: Subsection C of 19.15.17.11 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 Consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendat material are provided below. Requests regarding changes to certain siting criteria may require administrative approval fro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for considerant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not above-grade tanks associated with a closed-loop system.	om the appro deration of a	priate district pproval.
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, lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	or playa	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	on.	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial applicate (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ion.	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial approximate. 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 ord adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	inance	☐ 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 Geology Society; Topographic map 	gical	☐ 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)
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 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 ₂ S, Prevention Plan Cilmatory 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
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

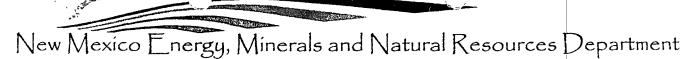
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attach facilities are required.		
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for fu Yes (If yes, please provide the information below) \(\subseteq \) No	iture service	e 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 19.15.17.1 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	3 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 accepta provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropric considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	iate district	office or may b
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells] Yes ⊠ No] NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells] Yes 🔯 No] NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	playa] Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	. [] Yes ⊠ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or sto watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial applic - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site] Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinal adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	ance] Yes ⊠ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed sit	ite] 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 Geologic Society; Topographic map	cal] 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 Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure Achievements 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 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standard Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	C s of 19.15.1 IAC	7.11 NMAC

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge.	ge and belief.
Name (Print):CHARLES MARTINTitle:Engineer	
Signature. Date: 7/28/2008_	
e-mail address: cmartin@mewbourne.com Telephone:(575) 393-5905	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attack	
OCD Representative Signature: Signed By Marke Beautiful Approval Date:	AUG 1 1 2008
Title: Treld Superism OCD Permit Number: N/A	
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 3. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Ple section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	ase do not complete this
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal If different from approved plan, please explain.	(Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks of Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. two facilities were utilized.</u>	
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. Yes (If yes, please demonstrate compliance to the items below) No	ice and operations?
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. 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 3:2 41' 41/3(4 N Longitude 104' 00' 51.41 (4) NAD	
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the be belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approve	st of my knowledge and I closure plan.
Name (Print): Charles Martin Title: Engineer	
Signature. Charles 1. Martin Date: 12-17-08	
e-mail address: CMartin @ Membourne. COM Telephone: (575)	·
Accepted for record JAN 0 7 2009	

Form C-144

Oil Conservation Division

Page 5 of 5



Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



Mewbourne Oil Co. Bradley 6 Fed Com 001 API: 30-015-35928 C-6-19s-30e

Drilling pit at this site was constructed under Rule 50 and is being closed per NMOCD Part 17 "Pit Rule". A C-144 registration from was not found in the well file. A copy (unsigned) was faxed to District 2 office 8/8/08 and accepted for record.

Stipulations for closing drilling pit:

- Notify NMOCD District 2 office 48 hours prior to obtaining samples where analyses of samples obtained are to be submitted to NMOCD.
- The proposal to place the burial trench marker at the corner of the trench cannot be approved from this office and is therefore denied at this time.
- All criteria pertaining to 19.15.17 [NMAC] (Part 17 "Pit Rule") must be met for closure of this pit.



July 14, 2008

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

RE: Bradley 6 Federal Com 001 - Temporary Pit Closure Request

API: 30-015-35928 Unit C Sec 6-T19S-R30E 660' FNL & 1500' FWL

Site Ranking Score: 0
Depth to Ground Water: 125'
100 Year Flood Plain: No
Potash Area: No per R-111P

Surface Owner: Bureau of Land Management

Analytical Testing: Chlorides, BTEX, TPH, GRO, DRO Primary Land Use: Ranching and Oil & Gas Production

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

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

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

- Waste Removal: In compliance with 19.15.17.13 NMAC, Talon will excavate all drill cuttings from the "duck pond" and transport to Lea Land Disposal Facility, Permit No. WM-1-035. The approximate amount of material will be 500 yards of brine saturated cuttings. Upon excavation of the "duck pond" all applicable soil testing will be performed pursuant to Pit Rule 17 to verify that the limits, which have been set by the NMOCD, have been obtained. A copy of the analytical data will be attached to the Final Report.
- Burial Trench: In compliance with 19.15.17.13 NMAC, Talon will stiffen the remaining "reef" area to a 3:1 ratio and place in a lined 20mil In-situ burial cell with approximate dimensions of 150x40x20. A 20mil "lid" will be placed on top of the burial cell to seal in the impacted material (a C-105 and plat have been attached). Upon excavation of the "reef" all applicable soil testing will be performed pursuant to Pit Rule 17 to verify the limits, which have been set by the NMOCD, have been obtained. A copy of the analytical data will be attached to the Final Report. (Note: If the burial contents from the reef area are not at or below the required Chloride and TPH levels, this area will then be transported to Lea Land Disposal Facility, Permit No. WM-1-035.)
- 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. The samples will be sent Trace Analysis for official analytical results.
- 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 cell with one foot of top soil to ensure revegetation. The excavated pit area will be backfilled with native material and one foot of topsoil.
- Re-vegetation Plan: In compliance with Subsection I of 19.15.17.13 NMAC the area will be re-seeded with BLM seed mixture No. 2 to re-establish native vegetation.

- **Site Reclamation Plan:** In compliance with Subsection I of 19.15.17.13 NMAC the impacted and disturbed area will be re-contoured to surrounding terrain.
- Marker: Talon/LPE and Mewbourne Oil Company at this time requests an exception to the placement of the permanent maker. It is of our opinion that the permanent marker will be better served if it is placed at the corner of the burial cell in native none disturbed soil rather than in the center of the burial area. In the area of the burial cell the material is not as compact and we feel could pose future problems with the stability of the permanent marker. 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.

A copy of the Surface Owners Notification has been attached for documentation of compliance with Subsection F of 19.15.17.13 NMAC. A Topographical map and Satellite photo has been attached to verify that this location is not within any watercourse or wetlands area. Pursuant to Order R-111P, this area has also been cleared from the subsurface mining area. A copy of a Hydrological map and information from the iWaters Database has been attached as documentation for water depth and domestic/stock watering purposes. A copy of the FEMA 100-year Flood Plain map has also been attached for verification purposes. Verbal verification has been obtained to verify this area is not within any municipal fresh water field.

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

Sincerely,

Shelly J. Tucker Project Manager

Talon/LPE

Attachments:

- 1. Surface Owner Notification letter
- 2. Diagram of burial cell
- 3. Diagram of temporary pit
- 4. Hydrogeologic Data (iWaters, Water Map)

- Justen

- 5. FEMA 100 Flood Plain Map
- 6. Topographical Map
- 7. Satellite Image
- 8. Exhibit "A" of Order R-111P

/sjt

July 14, 2008

Jim Amos Bureau of Land Management 602 E. Green Street Carlsbad, New Mexico 88220

RE:

Bradley 6 Federal Com 001 - Temporary Pit Closure Surface Owner Notification

API: 30-015-35928 Unit C Sec 6-T19S-R30E 660' FNL & 1500' FWL

Mr. Amos:

This letter is to notify the Bureau of Land Management, which is listed as the surface owner of the aforementioned location, that Talon/LPE (Talon) has been contracted by Mewbourne Oil Company (Mewbourne) to perform pit closure activities on the referenced location. Pursuant to Rule 19 15.17.10 NMAC (a/k/a Pit Rule 17) of the New Mexico Oil Conservation District of the State of New Mexico (NMOCD), Talon/LPE and Mewbourne have filed the required documentation with the NMOCD to close this reserve pit. A portion of this reserve pit will be buried in an in-situ burial cell and a portion will be excavated and transported to Lea Land Disposaly Facility (Permit No. WM-1-035).

If you should have and questions or concerns, please feel to contact Charles Martin of Mewbourne Oil Company at 575-441-2081 or Shelly J. Tucker of Talon/LPE at 575-706-7234 with any questions or concerns.

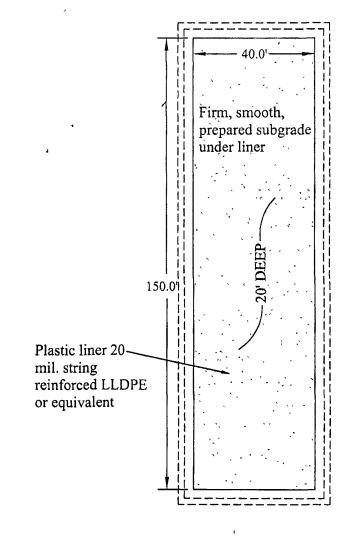
Sincerely,

Shelly J. Tucker Project Manager

Talon/LPE

/sjt

Plastic liner 12 mil. string reinforced Liner 4' below surface Firm, smooth, prepared subgrade Site Detail Mewbourne Oil (Date: 07/22/2008 Bradley 6 Fed Eddy County, Nev Pit Liner Deta Scale: Not To Scale Drawn By: SJA



Site Overhead View



Date: 07/22/2008

Scale: Not To Scale

Drawn By: SJA

Mewbourne Oil (
Bradley 6 Federaldy County, New Pit Liner Site

New Mexico Office of the State Engineer POD Reports and Downloads

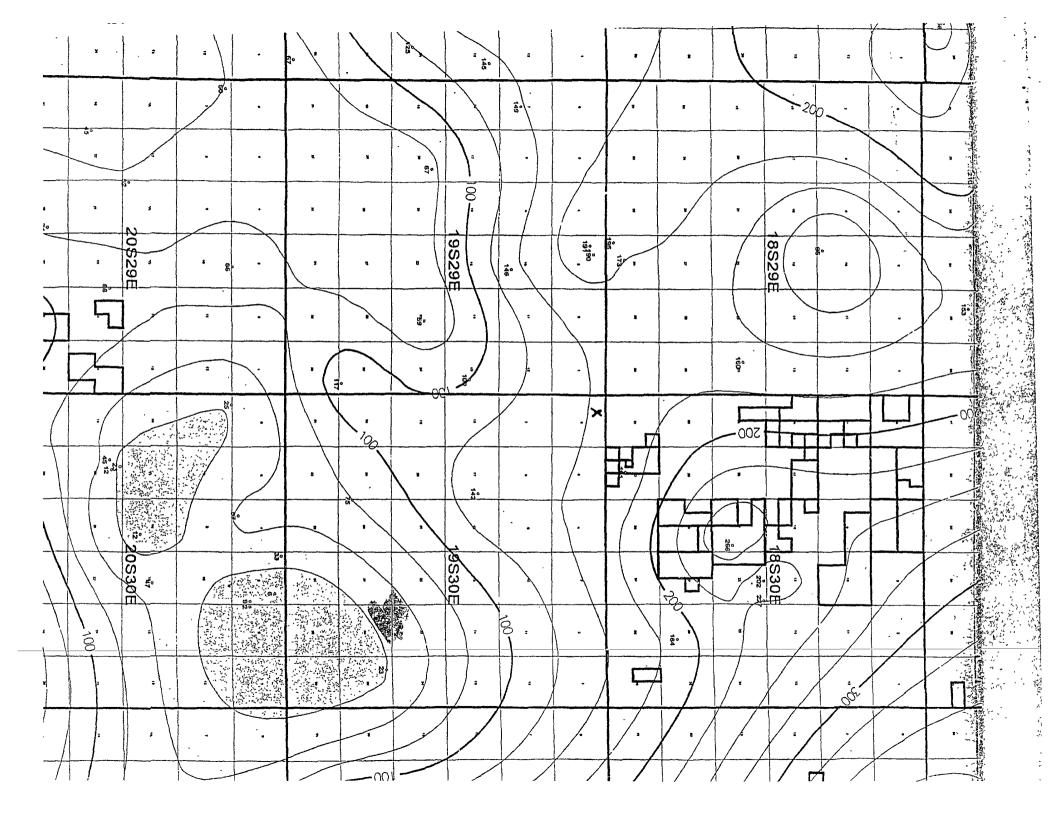
Townsh	ip: 19S Range: 30E	. Sections.			
NAD27 X	Υ:	Zone:	Search Rac	lius:	
County:	Basin:		Number:	Suffix:	-
Owner Name: (First)	(Las	t)	○ Non-Domes	tic O Domes	tic All
POD /-Surface-D	Data-Report	wg Depth to Wate	r-ReportW	/ater-Column-Re	port
	Clear Form	iWATERS M	enu Help		

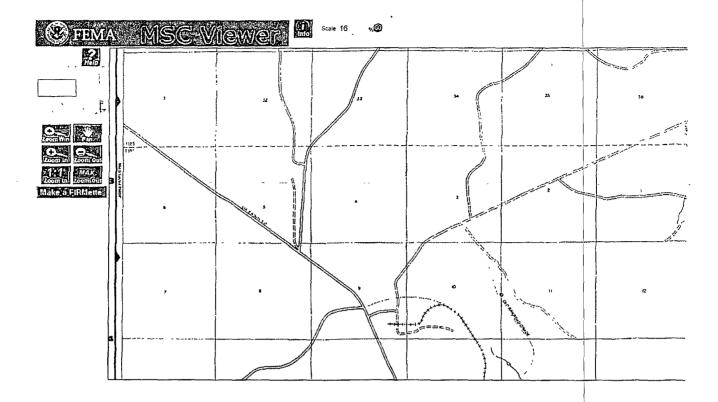
	WATER COI	LUMN REPORT 07	7/28/2008		

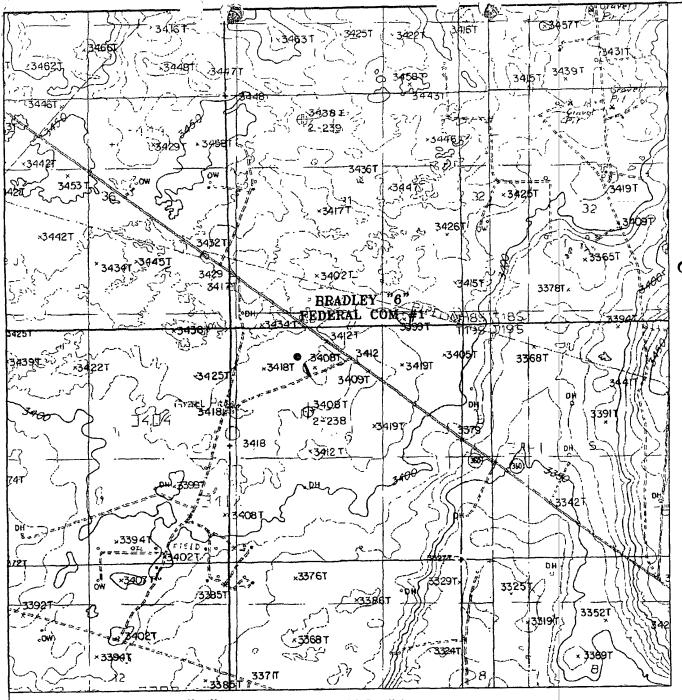
(quarters	are	1=NW	2=NE	3=SW	4=SE)	
(miertere	970	higgs	a+ +c	. emal	leetl	

	(quarter	s are	e big	ggest to	swallest)			Deptn	Depth	water	(in reet
POD Number	Tws	Rng	Sec	qqq	Zone	x	Y	Well	Water	Column	
CP 00822	19s	30E	15	4 4				90			
CP 00823	19s	30E	17	3 1				120		1	
CP 00824	19S	30E	20	1 4				70			
CP 00825	19s	30E	28	4 3				100			
CP 00522	19S	30E	30	3				120	90	30	
CP 00742	19s	30E	31	3 1 3				223	115	108	
CP 00828	19S	30E	35	1 1				90			
CP 00827	19s	30E	35	3 3				100			

Record Count: 8







BRADLEY "6" FEDERAL COM #1
Located 660' FNL and 1500' FWL
Section 6, Township 19 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

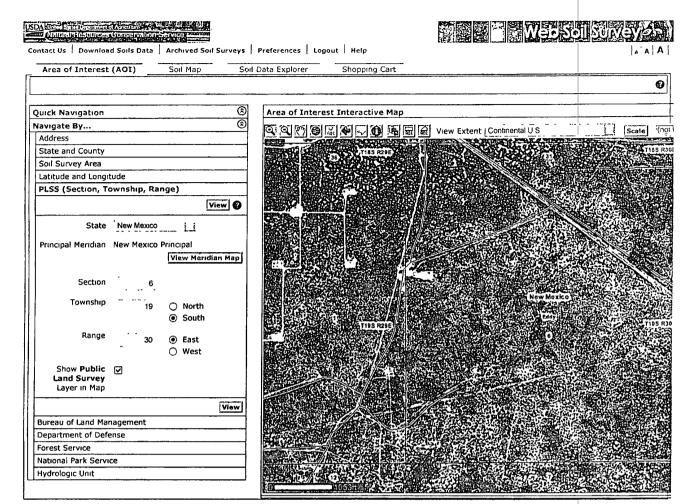
Exhibit 3



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys com

WO Number 1849/1 JMS
Survey Date: 08-24-2007
Scale: 1" = 2000'
Date. 08-29-2007

MEWBOURNE OIL CO.



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EXHIBIT "A" CASE 9316 ORDER R-111-P

CONSOLIDATED LAND DESCRIPTION OF THE KNOWN POTASH LEASING AREA, AS OF FEBRUARY 3, 1988

EDDY COUNTY, NEW MEXICO

```
TOWNSHIP 18 SOUTH, RANGE Section 10: SE/4 SE/4
                          RANGE 30 EAST, NMPM
                      S/2 SW/4
Section 11:
Section 13:
                      W/2 SW/4 and SE/4 SW/4
                     W/2 NE/4, NW/4 and S/2
E/2 NE/4, SE/4 SW/4 and SE/4
N/2, N/2 SW/4, SE/4 SW/4 and SE/4
Section 14:
Section 15:
Section 22:
Section 23:
                      AII
                      N/2 NW/4, SW/4 NW/4 and NW/4 SW/4 NE/4, N/2 NW/4 and SE/4 NW/4
 Section 24:
Section 26:
Section 27:
                      N/2 NE/4 and NE/4 NW/4
TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM
                      SE/4 SE/4
Section 11:
Section 12:
                      SE/4 NE/4 and S/2
Section 13:
                      Al I
                      NE/4, SE/4 NW/4 and S/2
Section 14:
Section 15:
                      SE/4 SE/4
Section 22:
                      NE/4, E/2 W/2 and SE/4
Section 23:
                      Al I
                      Al I
Section 24:
                      NW/4 NW/4
Section 25:
Section 26:
                      N/2 NE/4 and NW/4
Section 27:
                      NE/4 and E/2 NW/4
TOWNSHIP 19 SOUTH RANGE 30 EAST, NMPM
                      SW/4
Section 2:
                      W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4
Section
             3:
                      Lots 3 and 4. SW/4 NE/4, S/2 NW/4
Section 4:
                      and S/2
Lots 1, 2. and 3, S/2 NE/4.
S/2 NW/4 and S/2
S/2 SE/4 and NE/4 SE/4
Section 5:
Section
Section 6: S/2 SE/4 and NE/4 SE/4

Sections 7 to 10 inclusive

Section 11: S/2 NE/4, NW/4 NW/4 and S/2

Section 12: NE/4, S/2 NW/4 and S/2

Section 13: NE/4, W/2, N/2 SE/4 and SW/4 SE/4

Sections 14 to 18 inclusive
                     Lots 1, 2, and 3, NE/4, E/2 NW/4, NE/4 SW/4, E/2 SE/4 and
Section 19:
                            NW/4 SE/4
Sections 20 to 23 inclusive Section 24: NW/4. NW/4 SW/4 and S/2 SW/4
```

U.S. Postal Service (1)
CERTIFIED MAIL(1) RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided) 7973 0.5月6 3070 Sp(] 7] 25.50 Postage Certified Fee 11.70 1000 Postmark Here/ Return Receipt Fee (Endorsement Required) 35.PC Restricted Delivery Fee (Endorsement Required) #0.¢-1140 Total Postage & Fees \$ Sent To 7008 Street, Apt No. or PO Box No
City, State, 2/3-4
PS Form 3800, August 2006

¢.



AME LOSTINGTON, LISTON

NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Shelly Tucker Talon LPE-Hobbs 318 E Taylor Hobbs, NM, 88240

Report Date: August 18, 2008

Work Order

8081522

Project Location

Sec 6, T19S-R30E, Eddy Co., NM

Project Name:

Bradley 6 Fed. Com #1

Project Number

Bradley 6 Fed Com. #1

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
170811	Duck Pond Comp.	soıl	2008-08-14	15 00	2008-08-15

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

Blair forwish

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 6 Fed Com. #1 were received by TraceAnalysis, Inc. on 2008-08-15 and assigned to work order 8081522. Samples for work order 8081522 were received intact at a temperature of 22 1 deg. C.

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

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
TPH 418 1	E 418.1
TPH DRO	Mod 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8081522 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: August 18, 2008 Bradley 6 Fed. Com #1

Work Order: 8081522 Bradley 6 Fed Com. #1

Page Number: 4 of 14 Sec 6, T19S-R30E, Eddy Co., NM

Analytical Report

Sample: 170811 - Duck Pond Comp.

Laboratory: Lubbock

Analysis. BTEX QC Batch. 51491 Prep Batch 44147

Analytical Method S 8021B Date Analyzed

Sample Preparation:

2008-08-15 2008-08-15 Prep Method: S 5035 Analyzed By: ER

ERPrepared By.

Parameter	Flag	$rac{ ext{RL}}{ ext{Result}}$	Units	Dilution	m RL
Benzene		< 0 0100	mg/Kg	1	0 0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0 0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
Trifluorotoluene (TFT)		1.27	mg/Kg	1	1.00	127	59 - 136.1
4-Bromofluorobenzene (4-BFB)		1.27	mg/Kg	1	1.00	127	54.4 - 176 2

Sample: 170811 - Duck Pond Comp.

Laboratory: Lubbock

Analysis. Chloride (Titration) QC Batch 51523 Prep Batch. 44183

Analytical Method Date Analyzed:

Sample Preparation

SM 4500-Cl B 2008-08-18 2008-08-18

Prep Method N/A Analyzed By: RD

RD

CM

Prepared By.

RLUnits RLParameter Flag Result Dilution Chloride 152 3.25mg/Kg 10

Sample: 170811 - Duck Pond Comp.

Laboratory: Lubbock

TPH 418.1 Analysis. QC Batch 51513 Prep Batch: 44170

Analytical Method: Date Analyzed:

E 418 1 2008-08-18 Sample Preparation: 2008-08-18 Prep Method N/A CMAnalyzed By

Prepared By:

RLFlag Result Parameter Units Dilution RLTRPHC <10.0 mg/Kg 10 0 Report Date. August 18, 2008 Bradley 6 Fed. Com #1

Work Order: 8081522 Bradley 6 Fed. Com #1 Page Number. 5 of 14 Sec. 6, T19S-R30E, Eddy Co., NM

Bradley 6 Fe	ed. Com #1		Bradley	b Fed. Cor	n #1	Sec.	6, 1195-R30E	, Eddy Co., NM
Sample: 17	0811 - Duck Por	nd Comp.						
Laboratory Analysis QC Batch Prep Batch.	Lubbock TPH DRO 51508 44162		Date Ana	l Method: lyzed: reparation.	Mod 801 2008-08-1 2008-08-1	5	Anal	Method: N/A yzed By. MN ared By MN
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO			< 50.0		${ m mg/Kg}$		' 1	50 0
Surrogate	Flag	Result	Units	Di	lution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	115	mg/Kg		1	100	115	49 5 - 185
Sample: 17 Laboratory: Analysis: QC Batch: Prep Batch:	0811 - Duck Por Lubbock TPH GRO 51493 44147	nd Comp.	Analytica Date Ana Sample P		S 8015B 2008-08-13 2008-08-13		Prep M Analyz Prepar	ed By. ER
v			RL					
Parameter	Flag		Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate Trifluorotolue 4-Bromofluor	ene (TFT) robenzene (4-BFB)	Flag	Result 1.38 1.49	Units mg/Kg mg/Kg	Dilution 1 1	Spike Amount 1.00 1.00	Percent Recovery 138 149	Recovery Limits 55 3 - 161.9 45 6 - 214.7
Method Bla QC Batch: Prep Batch.		3atch 51491	Date Ana QC Prep	alyzed 2	2008-08-15 2008-08-15		Ana	lyzed By. ER pared By. ER
		T-1			DL	_	,	***
Parameter		Flag		Res			Jnits /	RL
Benzene Toluene				< 0.000			g/Kg g/Kg	$0.01 \\ 0.01$
Ethylbenzene	?			< 0.000			g/Kg	0.01
Xylene				< 0.00	724		g/Kg	0.01
·								

Report Date. August 18, 2008 Bradley 6 Fed. Com #1 Work Order: 8081522 Bradley 6 Fed. Com. #1 Page Number. 6 of 14 Sec. 6, T19S-R30E, Eddy Co , NM

					Spike	Percent	Reco	very
Surrogate	Flag		Units	Dilution	Amount	Recovery	Lım	
Trifluorotoluene (TF		0.916	mg/Kg	1	1.00	92	69 3 -	
4-Bromofluorobenzer	e (4-BFB)	0.711	mg/Kg	1	1 00	71	24.4 -	$\frac{114.6}{}$
Method Blank (1)	QC Batch 514	93						
QC Batch 51493		Date Ar	nalyzed: 2	2008-08-15		Ana	lyzed By.	$\mathbf{E}\mathbf{R}$
Prep Batch. 44147		QC Pre	paration: 2	2008-08-15		Prep	pared By:	$\mathbf{E}\mathbf{R}$
			MDI					
Parameter	Flag		Resul	t	Un	its		RL
GRO			< 0.14	4	mg/	'Kg		1
					Spike	Percent	Reco	very
Surrogate	Flag		Units	Dilution	Amount	Recovery	Lım	
Trifluorotoluene (TF		0 998	mg/Kg	1	1.00	100	83.3 -	
4-Bromofluorobenzer	le (4-BFB)	0 841	mg/Kg	1	1.00	84	34.5 -	105.8
Method Blank (1) QC Batch. 51508 Prep Batch: 44162	QC Batch: 515	Date An	•	008-08-15 008-08-15			yzed By ared By	MN MN
_			MDI					
Parameter	Flag		Result		Un			RL
DRO			< 6.77	<u> </u>	mg/	Kg		50
Surrogate	Flag Result	Units	s Dil	lution	Spike Amount	Percent Recovery		overy nits
n-Triacontane	89.3	mg/K		1	100	89	49 5	- 185
Method Blank (1) QC Batch. 51513 Prep Batch: 44170	QC Batch: 515	Date An	paration. 2	008-08-18 008-08-18			yzed By. ared By.	CM CM
Parameter	Flag		MDI Result		Un	115		RL
TRPHC	1 Tag		<1.06		mg/			10
			~	•	***6/	0		

Report Date August 18, 2008 Bradley 6 Fed. Com. #1 Work Order: 8081522 Bradley 6 Fed. Com. #1 Page Number 7 of 14 Sec. 6, T19S-R30E, Eddy Co , NM

QC Batch 51523

QC Batch 51523 Prep Batch 44183 Date Analyzed: 2008-08-18 QC Preparation. 2008-08-18 Analyzed By. RD Prepared By. RD

MDL

Donomoton	T21	Dogult	TTours	DI
Parameter	Flag	Result	Units	RL
Chloride		<180	mg/Kg	3 25

Laboratory Control Spike (LCS-1)

QC Batch: 51491 Prep Batch. 44147 Date Analyzed. 2008-08-15 QC Preparation 2008-08-15

Analyzed By: ER Prepared By. ER

LCS Spike Matrix Rec. Param Result Units Dil. Result Limit Amount Rec. Benzene mg/Kg 80 5 - 115.5 0.900 1 1.00 < 0.0034790 Toluene 0.935 mg/Kg 1 1.00 < 0.00525 94 80 - 114 7 Ethylbenzene 0.936 mg/Kg 1 1.00 < 0.00607 94 77.1 - 114 2 Xylene 2.82mg/Kg 1 3.00 < 0.00724 94 77.6 - 114 5

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	Dıl.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	0.909	mg/Kg	1	1.00	< 0 00347	91	80.5 - 115.5	1	20
Toluene	0.928	mg/Kg	1	1 00	< 0.00525	93	80 - 114 7	1	20
Ethylbenzene	0.943	mg/Kg	1	1.00	< 0.00607	94	77.1 - 114.2	1	20
Xylene	2.84	mg/Kg	1	3 00	< 0.00724	95	77.6 - 114.5	1	20

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

	LCS	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	Amount	Rec .	Rec.	Limit
Trifluorotoluene (TFT)	0 889	0.912	mg/Kg	1	1.00	89	91	74.2 - 114 7
4-Bromofluorobenzene (4-BFB)	0.868	0.869	mg/Kg	1	1.00	87	87	69 7 - 118 7

Laboratory Control Spike (LCS-1)

QC Batch 51493 Prep Batch: 44147 Date Analyzed 2008-08-15 QC Preparation 2008-08-15 Analyzed By ER Prepared By ER

	LCS			Spike	Matrix		${ m Rec}$
Param	Result	Units	Dil.	Amount	Result	Rec	$_{ m Limit}$
GRO	9.47	mg/Kg	1	10.0	< 0.144	95	73.1 - 114.7

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

Report Date August 18, 2008 Bradley 6 Fed. Com. #1 Work Order: 8081522 Bradley 6 Fed. Com #1

Page Number 8 of 14 Sec 6, T19S-R30E, Eddy Co , NM

		LCSD			C . 11 -	Mark			Rec.		RPD
Param		Result	Units	Dil	Spike Amount	Matr Resu		c	Limit	RPD	Limit
GRO			mg/Kg	1	10 0	<0.1			.1 - 114 7	6	20
Percent recovery is based	on the en										
refeelt recovery is based	on the sp				the spike	and spi	•	cate res	uit		
		LCS	LC	SD			Spike	LCS	S LCSD]	Rec.
Surrogate		Result					Amount	Rec			ımıt
Trifluorotoluene (TFT)	D. D.D. \	0.918			g/Kg	1	1 00	92	90		- 111.4
4-Bromofluorobenzene (4-	REB)	0.992	0.9	999 m	ıg/Kg	1	1 00	99	100	70.3	- 116 1
Laboratory Control Sp	ike (LC	S-1)									,
QC Batch: 51508	•		Date Ai	nalyzed.	2008-08	R-15			Anal	vzed Bv	MN
Prep Batch 44162				paration	2008-08					ared By	MN
•			·	1					1		
		LCS	\			Spi	ike	Matrix	c		Rec.
Param		Resu		Units	D_1l	Amo		Result			Limit
DRO		300		mg/Kg	1	25		7 75	117	<u> </u>	9 - 138
Percent recovery is based	on the sp	ike result.			the spike	and spi	ıke duplı	cate res	ult		
		LCSD			Spike	Mat	trix		Rec.		RPD
Param		Result	Units	Dıl.	Amount	t Res	sult R	ec.	Limit	RPD	Limit
DRO		293	mg/Kg	1	250	7 7	75 1	14 7	3.9 - 138	2	20
Percent recovery is based	on the sp	ike result	RPD is	based on	the spike	and spi	ıke dupli	cate res	ult.		
	LCS	LCSD				Spil	ke.	LCS	LCSD		Rec
Surrogate	Result	Result	Ţ	Jnits	Dil.	Amo		Rec.	Rec.		Limit
n-Triacontane	70 4	103	m	g/Kg	1	100	0	70	103	49	5 - 185
Laboratory Control Sp	ike (LC	S-1)									
QC Batch: 51513			Date Aı	nalvzed:	2008-08	2-18			Anal	vzed Bv	СМ
Prep Batch. 44170				paration:						ared By	
•			•	-					•	ľ	
		LCS				Spi	ike	Matrix	ζ		Rec.
Param		Resu	lt	Units	Dıl.	Amo	ount	Result	Rec.		Limit
Param TRPHC			lt	Units mg/Kg	Dıl.	-	ount		Rec.		Limit
TRPHC	on the sp	Resu 199	lt 1	mg/Kg	1	Amo	ount 0	Result	Rec. 80		Limit
	on the sp	Resu 199 ike result	lt 1	mg/Kg	the spike	Amo	ount 0 ke dupli	Result	Rec. 80		Limit .5 - 136
TRPHC	on the sp	Resu 199	lt 1	mg/Kg	1	Amo 25 and spi Mat	ount 0 ke dupli trix	Result	Rec. 80		Limit

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

Report Date: August 18, 2008 Bradley 6 Fed. Com. #1

Work Order 8081522 Bradley 6 Fed Com #1

Page Number. 9 of 14 Sec. 6, T19S-R30E, Eddy Co, NM

Laboratory Control Spike (LCS-1)

QC Batch Prep Batch: 44183

51523

Date Analyzed:

2008-08-18 ² QC Preparation: 2008-08-18 Analyzed By. RD

Prepared By: RD

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec	Limit
Chloride	98.2	mg/Kg	1	100	< 1.80	98	96.5 - 104.4

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

	LCSD			$_{ m Spike}$	Matrix		Rec		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	98 7	mg/Kg	1	100	<1.80	99	96.5 - 104 4	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. 170786

QC Batch.

51491 Prep Batch: 44147 Date Analyzed.

2008-08-15 QC Preparation: 2008-08-15 Analyzed By: ER

Prepared By: ER

Param	$rac{ ext{MS}}{ ext{Result}}$	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec	Rec Limit
Benzene	1 23	mg/Kg	2	1.00	< 0 00694	123	42 9 - 130.7
Toluene	1.33	mg/Kg	2	1.00	< 00105	133	46 9 - 135.4
Ethylbenzene	1.38	mg/Kg	2	1.00	< 0.0121	138	48.3 - 149.3
Xvlene	4 18	mg/Kg	2	3.00	< 0 0145	139	48 8 - 150.9

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

		MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1	1.38	mg/Kg	2	1.00	< 0.00694	138	42.9 - 130 7	12	20
Toluene	2	1.50	mg/Kg	2	1.00	< 0.0105	150	46.9 - 135.4	12	20
Ethylbenzene	3	1.58	mg/Kg	2	1.00	< 0.0121	158	48 3 ¹ - 149 3	14	20
Xylene	4	4 78	mg/Kg	2	3.00	< 0.0145	159	48 8 - 150 9	13	20

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

		MS	MSD			$_{ m Spike}$	MS	MSD	$\mathrm{Rec}.$
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	$_{ m Limit}$
Trifluorotoluene (TFT)	5 6	1 33	1.50	mg/Kg	2	1	133	150	63 2 - 128 3

continued

¹Matrix spike recovery out of control limits Use LCS/LCSD to demonstrate analysis is under control

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

 $^{^3}$ Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control

⁴Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control ⁵Matrix spike recovery out of control limits Use LCS/LCSD to demonstrate analysis is under control

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

Report Date August 18, 2008 Bradley 6 Fed. Com. #1				. 8081522 . Com #1			Sec	. 6, T19		umber , Eddy (
matrix spikes continued		a) (CP				,	3.60	Mar	-	
Carmo and a	M		MSD Result	Units	Dil.	•	pike iount	$\frac{MS}{Rec.}$	$ \begin{array}{c} \text{MSD} \\ \text{Rec.} \end{array} $		Rec. imit
Surrogate 4-Bromofluorobenzene (4-BFB)	Res		1 48	mg/Kg	$\frac{D_{\Pi}}{2}$	AII	1	135	148		- 161 2
4-Bromondorobenzene (4-Br B)	1 .		1 40	mg/1tg_			<u>. </u>	130	140	01.0	- 101 2
Matrix Spike (MS-1) Spike	d Sample. 17	70835									
QC Batch: 51493		Date A	Analyzeo	i: 2008-0	8-15				Anal	lyzed By	ER
Prep Batch. 44147			reparatio		8-15					ared By	
	MS				Sn	ıke	Ma	atrix		F	Rec
Param	Resu		Units	Dıl	_	ount		sult	Rec		ımit
GRO	9.96		mg/Kg	20		0 0		2 88	100	48.9	- 155.8
Percent recovery is based on the s	spike result.			on the spike	e and s	pike d	uplicat	e result			
r or one recovery to based on the	_			_	Μ.		•				DDD
·	MSD			Spike		trix	-	Re	ec.	מממ	RPD
Param	MSD Result	Units	Dil.	Spike Amount	Re	sult	Rec	Re Lir	ec. nit	RPD	Limit
Param GRO	MSD Result 11.8	Units mg/Kg	Dil.	Spike Amount 10 0	Re <2	sult 2 88	Rec 118	Re Lir 48.9 -	ec. nit 155.8	RPD 17	
Param GRO	MSD Result 11.8	Units mg/Kg	Dil.	Spike Amount 10 0	Re <2	sult 2 88	Rec 118	Re Lir 48.9 -	ec. nit 155.8		Limit
Param GRO	MSD Result 11.8	Units mg/Kg RPD is	Dil.	Spike Amount 10 0	Re <2	sult 2 88 pike d	Rec 118	Re Lir 48.9 -	ec. nit 155.8	17	Limit
Param GRO Percent recovery is based on the s	MSD Result 11.8 spike result. MS Resu	Units mg/Kg RPD is M	Dil. g 20 s based o MSD tesult	Spike Amount 10 0 on the spike Units	Re <2 e and s	sult 2 88 pike d Sp	Rec 118 uplicat	Re Lir 48.9 - te result MS Rec	mit 155.8 MSD Rec.	17 F L	Limit 20 Rec.
Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT)	MSD Result 11.8 spike result. MS Resu 7 1.36	Units mg/Kg RPD is N lt R	Dil. g 20 s based of MSD tesult 1.48	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \\ \hline 10.0 \\ {\rm on the spike} \\ \hline {\rm Units} \\ \overline{\rm mg/Kg} \end{array}$	Re <2 and s Dil. 20	sult 2 88 pike d Sp Am	Rec 118 uplicat ike ount	Rec Lir 48.9 - te result MS Rec 136	ec. mit 155.8 	17 F L 41.8	20 Rec. 1115 4
Param GRO Percent recovery is based on the s	MSD Result 11.8 spike result. MS Resu	Units mg/Kg RPD is N lt R	Dil. g 20 s based o MSD tesult	Spike Amount 10 0 on the spike Units	Re <2 e and s	sult 2 88 pike d Sp Am	Rec 118 uplicat ike ount	Re Lir 48.9 - te result MS Rec	mit 155.8 MSD Rec.	17 F L 41.8	Limit 20 Rec.
Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT)	MSD Result 11.8 spike result. MS Resu 7 1.36	Units mg/Kg RPD is N lt R	Dil. g 20 s based of MSD tesult 1.48	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \\ \hline 10.0 \\ {\rm on the spike} \\ \hline {\rm Units} \\ \overline{\rm mg/Kg} \end{array}$	Re <2 and s Dil. 20	sult 2 88 pike d Sp Am	Rec 118 uplicat ike ount	Rec Lir 48.9 - te result MS Rec 136	ec. mit 155.8 	17 F L 41.8	20 Rec. 1115 4
Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	MSD Result 11.8 spike result. MS Resu 7 1.36	Units mg/Kg RPD is N lt R	Dil. g 20 s based of MSD tesult 1.48	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \\ \hline 10.0 \\ {\rm on the spike} \\ \hline {\rm Units} \\ \overline{\rm mg/Kg} \end{array}$	Re <2 and s Dil. 20	sult 2 88 pike d Sp Am	Rec 118 uplicat ike ount	Rec Lir 48.9 - te result MS Rec 136	ec. mit 155.8 	17 F L 41.8	20 Rec. 1115 4
Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spiked	MSD Result 11.8 spike result. MS Resu 7 1.36 1.12	Units mg/Kg RPD is N lt R	Dil. g 20 s based o MSD Lesult 1.48 1 19	m Spike $ m Amount$ $ m 10~0$ $ m on~the~spike$ $ m Units$ $ m mg/Kg$ $ m mg/Kg$	Re <2 and s Dil. 20 20	sult 2 88 pike d Sp Am	Rec 118 uplicat ike ount	Rec Lir 48.9 - te result MS Rec 136	MSD Rec. 148	17 F L 41.8 50.3	Limit 20 Rec. 1111 - 145 4 - 197.8
Param GRO Percent recovery is based on the s Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	MSD Result 11.8 spike result. MS Resu 7 1.36 1.12	Units mg/Kg RPD is M lt R 70811 Date A	Dil. g 20 s based of MSD tesult 1.48	Spike Amount 10 0 on the spike Units mg/Kg mg/Kg	Re <2 and s Dil. 20 20	sult 2 88 pike d Sp Am	Rec 118 uplicat ike ount	Rec Lir 48.9 - te result MS Rec 136	MSD Rec. 148 119	17 F L 41.8	20 Rec. 1115 4

DRO	8	340	mg/Kg	1	250	< 6.77	136
Percent recovery is based on	the spike r	ocult RPI	D is based on t	ho eniko	and eniko dur	olicato recult	

Units

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

MS

Result

Param

		MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param		Result	Units	$D_{1}l$	${f Amount}$	Result	Rec.	$_{ m Limit}$	RPD	Limit
DRO	9	396	mg/Kg	1	250	<6 77	158	50.7 - 134	15	20

Dil.

Spike

Amount

Matrix

Result

 Rec

Limit 50.7 - 134

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

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

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

⁹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date. August 18, 2008 Bradley 6 Fed. Com #1 Work Order: 8081522 Bradley 6 Fed Com #1 Page Number 11 of 14 Sec 6, T19S-R30E, Eddy Co., NM

				-						
	MS	MSD				Spike	M	1		Rec
Surrogate	Result	Result		nits	Dıl.	Amount	Re			Limit
n-Triacontane	112	126	mg	/Kg	1	100	11	2 126	49	.5 - 18
Matrix Spike (MS-1)	Spiked S	Sample 170	0811							
QC Batch 51513 Prep Batch 44170			Date Ana QC Prepa		2008-08- 2008-08-				yzed By ared By	
		MS				Spike		atrix		Rec.
Param		Resu		Units	Dıl.	Amount		esult Re		Limit
ГПРНС		370		ıg/Kg	1	250		77 11	7 .	10 - 35
Percent recovery is base	d on the spil	ke result. I	RPD is ba	ased on	the spike a	and spike du	plicate	result		
D.		MSD	T .7	D.I	Spike	Matrix	D	Rec.	DDD	RPD
Param		Result	Units	Dıl.	Amount		Rec	Limit	RPD	Limi
ТПРНС		382	mg/Kg	1	250	77	122	10 - 354	3	20
Prep Batch: 44183		,	QC Prepa	aration:	: 2008-08-	-18		Prep	ared By	. RD
		MS				Spike	Matr			Rec.
Param		Result		nits	Dıl	Amount	Resu		,	imit
Chloride		1850	mg	/Kg	100	500	1268	29 116	74.7	- 123 2
Percent recovery is base	d on the spil	ke result. I	RPD is b	ased on	the spike a	and spike du	plicate	result.		
_		MSD			Spike	Matrix		Rec	222	RPE
Param	10	Result	Units	Dıl	Amount		Rec.	Limit	RPD	Limi
Chloride			mg/Kg	100	500	1268 29	156	74.7 - 123 2	10	20
Percent recovery is base Standard (ICV-1)	d on the spil	ke result I	RPD is ba	ased on	the spike a	and spike du	plicate	result		
QC Batch 51491			Date Ana	alyzed	2008-08-1	5		Ana	lyzed By	y: ER
			ICVs		ICVs	ICVs		Percent		
		_	True		Found	Percent		Recovery		Date
Param Fla		nits	Conc.		Conc	Recovery	<i>Y</i>	Limits		alyzed
Benzene	m	g/Kg	0.100		0 0941	94		85 - 115		8-08-1
									contin	ued

¹⁰ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control

Page Number 12 of 14 Report Date. August 18, 2008 Work Order. 8081522 Sec. 6, T19S-R30E, Eddy Co., NM Bradley 6 Fed Com #1 Bradley 6 Fed Com #1 standard continued. **ICVs ICVs ICVs** Percent True Found Percent Recovery Date Param Flag Units Conc Conc Recovery Limits Analyzed Toluene mg/Kg 0 100 0.0979 98 85 - 115 2008-08-15 Ethylbenzene mg/Kg 0.100 0.0989 99 85 - 115 2008-08-15 Xylene mg/Kg 0.300 0.299100 85 - 115 2008-08-15 Standard (CCV-1) Analyzed By: ER QC Batch 51491 Date Analyzed 2008-08-15 CCVs CCVsCCVsPercent True Found Percent Recovery Date Param Flag Units Conc Conc. Recovery Limits Analyzed Benzene mg/Kg 0 100 0 0847 85 85 - 115 2008-08-15 Toluene mg/Kg 0.100 0.088588 85 - 115 2008-08-15 Ethylbenzene mg/Kg 0 100 0.087688 85 - 115 2008-08-15 Xylene mg/Kg 0.300 0 264 88 85 - 115 2008-08-15 Standard (ICV-1) QC Batch: 51493 2008-08-15Analyzed By ERDate Analyzed **ICVs ICVs ICVs** Percent Found Percent Date True Recovery Param Flag Units Conc. Recovery Limits Analyzed Conc GRO mg/Kg 1.00 0 995 99 85 - 115 2008-08-15 Standard (CCV-1) QC Batch: 51493 Date Analyzed 2008-08-15 Analyzed By. ER

Standard (ICV-1)

Flag

Units

mg/Kg

Param

 \overline{GRO}

QC Batch. 51508

Date Analyzed: 2008-08-15

CCVs

Found

Conc.

0 881

CCVs

Percent

Recovery

88

Percent

Recovery

Limits

85 - 115

CCVs

True

Conc.

1.00

Analyzed By. MN

Date

Analyzed

2008-08-15

Report Date: August 18, 2008

Bradley 6 Fed Com. #1

QC Batch. 51523

Work Order. 8081522 Bradley 6 Fed. Com. #1

Page Number: 13 of 14 Sec. 6, T19S-R30E, Eddy Co , NM

Analyzed By: RD

						·	
			ICV-	TOV-	ICVs	Donosert	
			ICVs True	${ m ICVs} \ { m Found}$	Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO	Tag	mg/Kg	250	251	100	85 - 115	2008-08-1
<u> </u>			200	201	100	00 110	2000 00 10
Standard	(CCV-1)						
QC Batch	51508		Date Ana	lyzed 2008-08	3-15	Anal	yzed By: MN
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	280	112	85 - 115	2008-08-1
Standard	(ICV-1)						
QC Batch:	51513		Date Ana	lyzed. 2008-08	3-18	Anal	 yzed By: CM
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
ГПРНС	<u>~</u>	mg/Kg	100	88 1	88	80 - 120	2008-08-1
Standard	(CCV-1)						
QC Batch	51513		Date Ana	lyzed· 2008-08	8-18	Anal	yzed By: CM
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
ГКРНС		mg/Kg	100	96.4	96	80 - 120	2008-08-1
Standard	(ICV-1)						
QC Batch.	51523		Date Ana	dyzed 2008-0	8-18	Anal	lyzed By: RD
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-08-1

Date Analyzed. 2008-08-18

Report Date. August 18, 2008 Bradley 6 Fed Com. #1 Work Order: 8081522 Bradley 6 Fed. Com #1 Page Number 14 of 14 Sec. 6, T19S-R30E, Eddy Co , NM

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2008-08-18

LAB Order ID #

8081522

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

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

200 East Sunset Rd Suite E EI Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 8308 Camp Bowie Blvd West Suite 180 Ft Worth, Texas 76116 Tel (817) 201-5260 Fax (817) 560-4336

Company Name Dalon DE Address. (Street, City, Zip)			ne #.			(Circle	ANALYSIS REQUEST or Specify Method No.)	
318 E laular Holds	nm	X8240						
Contact Person:		Ē-n	Salle The	0/2	5)	19 19	ndard	
Invoice to (If different from above) MEWROIRI	F (C)	0			xt(C3	g 6010B//	n star	
Project #:		Brade	ject Name:	m # /	8021B / 602 / 8260B / 624 021B / 602 / 8260B / 624 17 TX1005 / TX1005 Ext(C35) 5 GRO / DRO / TVHC 0C / 625	Ba Cd Cr Pb Se Hg 6010B/200 As Ba Cd Cr Pb Se Hg	(625 (1025	
Project Location (including state). Sec Le - T. H.S - R. 308. Cel. Cel. Cel. Cel. Cel. Cel. Cel. Cel	e o Coron	Sar	nple/Signature:	***	2 / 8260B / / TX1005 / TVHC	Ba Cd	3 / 624 8270C / 625 608	
	60	MATRIX	PRESERVATIVE METHOD	SAMPLING	11B / 602 / B / 502 / TX 1005 IRO / DR / 625		Jes 2608 / Vol 8 608 608 81A / 6 1 H	
LAB# FIELD CODE	CONTAINERS	ш			8021B 8021B 18 1)/ T 115 GR	hetals Ag As Metals A Volatiles Semi Vol	esticides Vol 8260 Semi Vol 082 / 608 es 8081A SS. pH Content Content	
(LAB USE)	# CONTAINERS Volume / Amount	WATER SOIL AIR SLUDGE	HCI HNO ₃ H ₂ SO ₄ NaOH ICE NONE		MTBE 8021B / 602 / 8260B / 61EX 8021B / 602 / 8260B / 6 (PH 418 1) TX1005 / TX1005 / TVHC TPH 8015 GRO / DRO / TVHC PAH 8270C / 625	12101010	TCLP Pesticides RCI GC/MS Vol 8260B / 624 GC/MS Semi Vol 8270C / 625 PCB s 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content Turn Around Time if different from standard	Hold
170811 Duck Pond comp	1	X	X	8/14/08 150C	XXX		X	
							5	
. 7								
							2	
2.5%								<u></u>
							21	
				<u> </u>				<u></u>
Reimquished by: Company: Date.	Time:	Received by.	Company: Date.	Time: Ten		B USE	REMARKS	
Relinquished by: Company: Date:	Time [.]	Received by	Company. Date	Time Ten	mp°c Intact () (r,	
					Headspac	a Y (V) NA	Dry Weight Basis Required	
Relinquished by: Company: Date.	Time:	Received by:	Company: Date:	Time: Ten			TRRP Report Required Check If Special Reporting Limits Are Needed	
Submittal of samples constitutes agreement to Te	ms and Con	nditions listed on re-	verse side of C O C		Carrier #	05316	4545108 (3cc)	

8081822

LAB Order ID #

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

TraceAnalysis, Inc.

email lab@traceanalysis com

Sompany

Address

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(If different from above)

Invoice to: Project #- ***

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Contact Person:

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

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Page

200 East Sunset Rd , Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443

8808 Camp Bowne Blvd West Suite 180 * Ft Worth, Taxas 76116 Tel (817) 201-5260 Fax (817) 560-4336

Hold Turn Around Time if different from standard or Specify Method No. **ANALYSIS REQUEST** Moisture Content Hq ,2ST ,0OB Pesticides 8081A / 608 PCB's 8082 / 608 GC/MS Semi Vol 8270C / 625 REMARKS GC/W2 A91 8560B / 624 BCI TCLP Pesticides TCLP Semi Volatiles Circle jije jije TCLP Volatiles LAB USE TCLP Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7 PAH 8270C / 625 TPH 8015 GRO / DRO / TVHC TPH 418 1 / TX1005 / TX1005 Ext(C35) B1EX 8021B / 602 / 8260B / 624 ပ 80218 / 602 / 82608 / 624 **38TM** Temp` 0.40 SAMPLING **TIME** 4 998-640 627 Time: **BTA**0 -440) Date: PRESERVATIVE NONE METHOD ICE > Phone #: Sampler Signature: Fax#: HOBN Company OS²H Project Name. HNO3 HCI E-mai Received by: SCUDGE MATRIX AIA TIOS **MATER** InuomA \ emuloV Fime: # CONTAINERS 100111 Date: Alman 1221A 11 MM FIELD CODE Company Project Location (including state)

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

Dry Weight Basis Required

Headspace YININA

\ ONIC Inta C N

Temp

Time:

Date:

Company:

Received by:

Date:

Company

Relinquished by

Relinquished by:

Kim Kim žĮ.

N.

Check If Special Reporting Limits Are Needed TRRP Report Required

Log-in-Review

5

<u>≅</u>

25

Temp°c:

Time:

Date.

Company:

Regerved by:

Time:

Date:

Company:

Relinquished by:

Carrier #

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fax gr5*+45*1314 14x 3: +595+043

6015 real is fasticial Signa" in Fill Allinh Texas 1610-

Victoria, Texas with E-Mail ab@trancer.ilys sico

NELAP Certifications

Lubbock: T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

Kansas E-10317

LELAP-02002

Analytical and Quality Control Report

Shelly Tucker Talon LPE-Hobbs 318 E Taylor Hobbs, NM, 88240

Report Date: August 21, 2008

Work Order: 8081911

Project Location Eddy County, NM Project Name Project Number

Bradley 6 Fed. #1 MEWBOU027PIT

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
$\overline{171024}$	Floor beneath Burial Cell	soil	2008-08-15	12:00	2008-08-19

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

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc

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 6 Fed #1 were received by TraceAnalysis, Inc. on 2008-08-19 and assigned to work order 8081911 Samples for work order 8081911 were received intact at a temperature of 11.0 deg. C.

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

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
Total BTEX	S 8021B
TPH 418.1	E 418 1
TPH DRO	Mod 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8081911 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: August 21, 2008 MEWBOU027PIT

Work Order: 8081911 Bradley 6 Fed #1

Page Number 4 of 13 Eddy County, NM

Analytical Report

Sample:	171024 -	Floor	beneath	Burial	Cell
---------	----------	-------	---------	--------	------

Laboratory Lubbock

Prep Batch. 44233

Analysis BTEX, Total BTEX QC Batch 51585

Analytical Method: Date Analyzed. Sample Preparation: 2008-08-19

S 8021B 2008-08-19 Prep Method: S 5035 Analyzed By ERPrepared By. ER

RLParameter Flag Result Units Dilution RLBenzene < 0 0100 mg/Kg 0.0100 0 0100 Toluene < 0.0100 mg/Kg 1 mg/Kg 0.0100Ethylbenzene < 0.0100 1 mg/Kg 1 Xylene < 0.0100 0.0100Total BTEX < 0 0600 mg/Kg 0.0600

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	1	1.00	112	59 - 136 1
4-Bromofluorobenzene (4-BFB)		1.27	$_{ m mg/Kg}$	1	1.00	127	54 4 - 176.2

Sample: 171024 - Floor beneath Burial Cell

Lubbock Laboratory

Analysis. Chloride (Titration) QC Batch: 51624 Prep Batch. 44263

Analytical Method: SM 4500-Cl B Date Analyzed. 2008-08-20 Sample Preparation. 2008-08-20

Prep Method N/A Analyzed By. RDPrepared By: RD

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		94.6	m mg/Kg	10	3 25

Sample: 171024 - Floor beneath Burial Cell

Laboratory Lubbock Analysis. TPH 418 1 51600 QC Batch Prep Batch 44246

Analytical Method. Date Analyzed. Sample Preparation.

E 418 1 2008-08-20 2008-08-20

Prep Method N/A CMAnalyzed By: Prepared By CM

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

Work Order: 8081911

Page Number 5 of 13

	27PIT			Bradley 6	Fed. #1		Ed	dy Count	ty, NM
Sample: 17	71024 - Floor ben	eath Buria	l Cell						
Laboratory Analysis QC Batch. Prep Batch	Lubbock TPH DRO 51638 44276		Date Ana	l Method. lyzed. reparation	Mod. 8015 2008-08-20 2008-08-19	1	Analy	Method. zed By. red By.	N/A MN MN
Parameter	Flag		RL Result		Units		Dilution		RL
DRO			< 50.0		mg/Kg		1		50.0
Surrogate	Flag	Result	Units		ution	Spike Amount	Percent Recovery	Li	covery
n-Triacontan	ie ¹	158	mg/Kg	· ·	1	100	158	57.5	5 - 139
Laboratory. Analysis. QC Batch:	T1024 - Floor ben Lubbock TPH GRO 51586		Analytica Date Ana		S 8015B 2008-08-19		Prep M Analyze	1	S 5035 ER
Prep Batch.	44233			reparation.			Prepare		ER
Prep Batch.			Sample P	•	2008-08-19		Prepare		ER
Prep Batch. Parameter	44233 Flag		Sample P	•	2008-08-19 Units				
Prep Batch. Parameter GRO Surrogate Trifluorotolue	Flag ene (TFT)	Flag	Sample P	Units mg/Kg	2008-08-19		Prepare Dilution	d By I Recc Lin 55.3 -	RL 1.00 overy mits 161.9
Prep Batch. Parameter GRO Surrogate Trifluorotolue	Flag ene (TFT) robenzene (4-BFB)	Flag atch: 51585	RL Result <1.00 Result 1 26	Units mg/Kg mg/Kg	Units mg/Kg Dilution	Spike Amount 1.00	Prepare Dilution 1 Percent Recovery 126 152	Recc Lin 55.3 - 45.6 -	RL 1.00 overy mits
Prep Batch. Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla	ene (TFT) robenzene (4-BFB) ank (1) QC B		RL Result <1.00 Result 1 26 1 52	Units mg/Kg mg/Kg alyzed. 2 aration 2	Units mg/Kg Dilution 1 1 2008-08-19 2008-08-19	Spike Amount 1.00	Prepare Dilution 1 Percent Recovery 126 152 Anal	d By I Recc Lin 55.3 -	RL 1.00 Divery mits 161.9 214.7
Prep Batch. Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch Prep Batch. Parameter	ene (TFT) robenzene (4-BFB) ank (1) QC B 51585		RL Result <1.00 Result 1 26 1 52 Date Ana	Units mg/Kg mg/Kg alyzed. 2 aration 2	Units mg/Kg Dilution 1 1 2008-08-19 2008-08-19 DL ult	Spike Amount 1.00 1.00	Prepare Dilution 1 Percent Recovery 126 152 Anal Prep	Recc Lin 55.3 - 45.6 -	RL 1.00 overy mits 161.9 214.7 ER ER
Prep Batch. Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch Prep Batch. Parameter Benzene	ene (TFT) robenzene (4-BFB) ank (1) QC B 51585	atch: 51585	RL Result <1.00 Result 1 26 1 52 Date Ana	Units mg/Kg mg/Kg alyzed. 2 aration 2 MI Res <0.003	Units mg/Kg Dilution 1 1 2008-08-19 2008-08-19 2008-08-19 DL ult 347	Spike Amount 1.00 1.00	Prepare Dilution 1 Percent Recovery 126 152 Anal Prep Inits g/Kg	Recc Lin 55.3 - 45.6 -	ER RL 1.00 overy mits 161.9 214.7 ER ER ER ER O 01
Prep Batch. Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch Prep Batch. Parameter	ene (TFT) robenzene (4-BFB) ank (1) QC B 51585 44233	atch: 51585	RL Result <1.00 Result 1 26 1 52 Date Ana	Units mg/Kg mg/Kg alyzed. 2 aration 2	Units mg/Kg Dilution 1 1 2008-08-19 2008-08-19 2008-08-19 DL ult 347 525	Spike Amount 1.00 1.00	Prepare Dilution 1 Percent Recovery 126 152 Anal Prep	Recc Lin 55.3 - 45.6 -	RL 1.00 overy mits 161.9 214.7 ER ER

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

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					Spike	Percent	Recovery
Surrogate	Flag	Result 0.861	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene ((4_RFR)	0.861 0.650	mg/Kg mg/Kg	1 1	1.00 1.00	86 65	69 3 - 110 2 24 4 - 114 6
4-Diomondolovenzene ((1- D1 D)	0.000	mg/ ng	1	1 00		244-1140
Method Blank (1)	QC Batch. 51586						
QC Batch 51586		Date An	v	2008-08-19			yzed By ER
Prep Batch 44233		QC Prep	paration 2	2008-08-19		Prep	ared By ER
			MDI	L			
Parameter	Flag		Resul		Uni		RL
GRO			<0 14	4	mg/	Kg	1
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	(A DED)	0 992	mg/Kg	1	1.00	99	83.3 - 108.5
4-Bromofluorobenzene ((4-BFB)	0 768	mg/Kg	1	1.00	77	34.5 - 105.8
Method Blank (1) QC Batch. 51600 Prep Batch 44246	QC Batch. 51600	Date Ana QC Prep		2008-08-20 2008-08-20			yzed By CM ared By CM
			MDL				
Parameter	Flag		Result		Uni		RL
TRPHC			<1.06	j	mg/	Kg	10
Method Blank (1)	QC Batch: 51624						
QC Batch 51624 Prep Batch: 44263		Date Ana QC Prep		2008-08-20 2008-08-20			yzed By. RD ared By RD
			MDL				
Parameter	Flag		Result		Unit		RL
Chloride			<1 80		mg/k	Kg	3 25
Method Blank (1)	QC Batch. 51638						
QC Batch. 51638		Date Ana		008-08-20		Analy	zed By: MN
Prep Batch 44276		QC Prepa	aration. 2	008-08-19		Prepa	ared By. MN

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Prep Batch 44233													
DRO	_		-						_				
Surrogate Flag Result Units Dilution Amount Recovery Limits Recovery Result Recovery Rec			Flag										
Surrogate Flag Result Units Dilution Amount Recovery Limits	DRO					<14.5			m	g/Kg			50
Surrogate Flag Result Units Dilution Amount Recovery Limits								Smil	**	D,	rcont	Ro	covory
Result Control Spike Con	Surrogata	Flag	Rosult	Т	Inite	Dilution	1	-					
Company Control Spike CCS-1 CC		Tag										1	
CC Preparation CC Prepar	n-111acontane		120		5/16			100	,		120		1 100
Prep Batch 44233	Laboratory Contr	ol Spike (L	CS-1)										
Param LCS Result Units Units Dil Dil Dil Dil Dil Dil Dil Dil Dil Dil	QC Batch: 51585			Dat	e Analyze	ed 2008-0	08-19				Ana	l lyzed By	ER
Param	Prep Batch 44233			QC	Preparat	ion 2008-0	08-19				Prep	ared By	$\mathbf{E}\mathbf{R}$
Param			T.C	'S			Snil	ke	Ma	triv		В	lec
Benzene	Param				Units	Dil	_				Rec		
Toluene												·	
Ethylbenzene													
Apple													
Percent recovery is based on the spike result RPD is based on the spike and spike duplicate result. RPD End Result Units Dil Amount Result Rec. Limit RPD Limit RPD Limit Repute Limit Limit Repute Limit Repute Limit Limit Repute Repute Limit Repute Limit Repute Limit Repute Limit Repute Limit Repute Repute Limit Repute Repute Limit Repute Limit Repute Rep													
Param	Percent recovery is b	ased on the	spike result	RPI) is based	on the spik	e and s	spike d	uplicat	e result	t.		
Benzene						-							RPD
Toluene 0.869 mg/Kg 1 1.00 <0 00525 87 80 - 114.7 0 20 Ethylbenzene 0.849 mg/Kg 1 1.00 <0.00607 85 77.1 - 114.2 1 20 Xylene 2.54 mg/Kg 1 3.00 <0.00724 85 77.6 - 114.5 1 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. LCS LCSD Spike LCS LCSD Rec.	Param												Limit
Ethylbenzene													
Xylene													
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result													
LCS LCSD Spike LCS LCSD Rec.	Xylene		2.54	mg/l	Kg 1	3.00	<0.0	00724	85	77.6	- 114.5	1	20
Surrogate Result Result Units Dil. Amount Rec. Rec. Limit Trifluorotoluene (TFT) 0 849 0 859 mg/Kg 1 1 00 85 86 74.2 - 114 7<	Percent recovery is b	ased on the	spike result	. RPI	ıs based	on the spik	e and s	spike d	uplicat	e resul	t		
Trifluorotoluene (TFT) 0 849 0 859 mg/Kg 1 1 00 85 86 74.2 - 114 7 4-Bromofluorobenzene (4-BFB) 0 829 0 827 mg/Kg 1 1 00 83 83 69.7 - 118.7 Laboratory Control Spike (LCS-1) QC Batch. 51586 Date Analyzed: 2008-08-19 Analyzed By: ER Prep Batch: 44233 QC Preparation: 2008-08-19 Prepared By. ER LCS Spike Matrix Rec Param Result Units Dil. Amount Result Rec. Limit			LC	CS	LCSD			Spil	ke	LCS	LCSD	F	lec.
Trifluorotoluene (TFT) 0 849 0 859 mg/Kg 1 1 00 85 86 74.2 - 114 74-Bromofluorobenzene (4-BFB) 0 829 0 827 mg/Kg 1 1 00 83 83 69.7 - 118.7 Laboratory Control Spike (LCS-1) QC Batch. 51586 Date Analyzed: 2008-08-19 Analyzed By: ER Prep Batch. 44233 QC Preparation: 2008-08-19 Prepared By. ER LCS Spike Matrix Rec Param Result Units Dil. Amount Result Rec. Limit	Surrogate		Res	ult	Result	Units	Dil.			Rec.	Rec	\mathbf{L}_{i}	ımıt
Laboratory Control Spike (LCS-1) QC Batch. 51586 Date Analyzed: 2008-08-19 Analyzed By: ER Prep Batch: 44233 QC Preparation: 2008-08-19 Prepared By. ER LCS Spike Matrix Rec Param Result Units Dil. Amount Result Rec. Limit		T)	0.8	49	0 859	mg/Kg	1	10	0	85	86	74.2	- 114 7
QC Batch. 51586 Date Analyzed: 2008-08-19 Analyzed By: ER Prep Batch: 44233 QC Preparation: 2008-08-19 Prepared By. ER LCS Spike Matrix Rec Param Result Units Dil. Amount Result Rec. Limit	4-Bromofluorobenzer	ne (4-BFB)	0 8	29	0 827	mg/Kg	. 1	10	0	83′	83	69.7	- 118.7
Prep Batch: 44233 QC Preparation: 2008-08-19 Prepared By. ER LCS Spike Matrix Rec Param Result Units Dil. Amount Result Rec. Limit	Laboratory Contr	ol Spike (L	CS-1)										
Prep Batch: 44233 QC Preparation: 2008-08-19 Prepared By. ER LCS Spike Matrix Rec Param Result Units Dil. Amount Result Rec. Limit	QC Batch. 51586			Dat	e Analyze	ed: 2008-0	08-19	•			Ana	lyzed By	: ER
Param Result Units Dil. Amount Result Rec. Limit													
Param Result Units Dil. Amount Result Rec. Limit			T.0	ns.			Sr	nke	Ms	ntrix		F	ec.
	Param				Units	Dil					Rec		
	GRO												

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

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	LCSD			Spike	Matrix			Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.		imit	RPD	Limit
GRO	10.4	mg/Kg	$\frac{1}{1}$	10.0	< 0 144	104	73.1	- 114.7	17	20
Percent recovery is based on the s	pike result	. RPD 18	based on	the spike	and spike	duplicat	te resul	t		
	LC	S LO	CSD		S	pike	LCS	LCSD	F	Rec
Surrogate	Resu					nount	Rec	Rec		imıt
Trifluorotoluene (TFT)	0.93			ıg/Kg		1.00	94	97		- 111.4
4-Bromofluorobenzene (4-BFB)	0.91	.8 0	896 n	ıg/Kg	1	1.00	92	90	70.3	- 116.1
Laboratory Control Spike (LC	CS-1)									
QC Batch 51600		Date A	nalyzed:	2008-08	3-20			Anal	yzed By	. CM
Prep Batch: 44246		QC Pre	eparation	: 2008-08	3-20				ared By.	
-										
	LO	70			Spike	. 1	I atrix			Rec
Param	Res		Units	Dıl.	Amour		Result	Rec.		Limit
TRPHC	22		mg/Kg	1	250		<1.06	90		5 - 136
									10	0 - 100
Percent recovery is based on the s	pike resuit	RPD is	based on	the spike	and spike	duplicat	e resul	t		
	LCSD			Spike	Matri	x]	Rec		RPD
Param	Result	Units	Dıl.	Amount	Resul	t Rec.		Limit	RPD	Limit
TRPHC	236	mg/K	g 1	250	<1.06	94	75.	5 - 136	5	20
Percent recovery is based on the s	pıke result	RPD is	based on	the spike	and spike	duplicat	e resul	t.		
Laboratory Control Spike (LC	CS-1)							•		
QC Batch: 51624		Date A	nalyzed.	2008-08	R-20			Anal	yzed By	: RD
Prep Batch. 44263			eparation						ared By	RD
110p 200000		40	op an arrors					2.101	ar oa 2 j	202
					a				_	
n	LC		TY .	ъ.	Spike		ıtrıx			ec.
Param	Res		Units	Dıl.	Amount		sult	Rec.		101.1
Chloride	97		mg/Kg	11	100		1.80	98	96.5	- 104.4
Percent recovery is based on the s	pike result	RPD is	based on	the spike	and spike	duplicat	e resul	t		
	LCSD			Spike	Matrix		F	Rec		RPD
Param	Result	Units	Dıl.	Amount	Result	Rec.	\mathbf{L}_{i}	ımıt	RPD	Limit
Chloride	99 2	mg/Kg	1	100	<1.80	99	96.5	- 104 4	1	20
Percent recovery is based on the s	pike result.	RPD 18	based on	the spike	and spike	duplicat	e resul	t		
				_	-	_				
Laboratory Control Spike (LC	CS-1)									
QC Batch 51638		Date A	nalyzed.	2008-08	-20			Analy	zed By	MN
Prep Batch. 44276			eparation	2008-08					ared By	MN

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QC Batch

Prep Batch: 44233

51586

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Analyzed By. ER Prepared By. ER

		LCS	2			Ç,	pike	м	latrix			Rec.
Param		Resu		Units	Dil.		nount		esult	Rec		Limit
DRO		258		mg/Kg			250		(14.5	103	7:	$\frac{1311110}{3.4 - 123}$
Percent recovery is based o	n the ar										1	7.1 120
referr fectively is based o	n the sp	orke resurt	MrD is	baseu	on the spik	e and s	ріке а	ирисал	e resu	116.		
		LCSD			Spike	e Ma	atrıx			Rec.		RPD
Param		Result	Units	Dil			esult	Rec.		Limit	RPD	Lımit
DRO		262	mg/Kg	1	250	<	14.5	105	73	.4 - 123	1	20
Percent recovery is based o	n the sp	oike result	RPD 1s	based (on the spik	e and sp	pike di	uplicate	e resu	lt.		
	LCS	LCSD				Sn	oike	L	CS	LCSD		Rec.
Surrogate	Result	Result	J	Jnits	Dil.	Am	ount		ec.	Rec.		Limit
n-Triacontane	110	112	m	g/Kg	1	1	00	1.	10	112	57	7.5 - 139
Matrix Spike (MS-1) QC Batch: 51585	Spiked		Date A			08-19				Anal	yzed B	y. ER
Prep Batch 44233			QC Pre	paratio	on 2008-0)8-19				Prep	ared By	y ER
Param		MS Result		Inits	Dıl	Spik Amou	nt	Mat Res	ult	Rec]	Rec Limit
Benzene		1.13		g/Kg	1	1 00		< 0.00		113		9 - 130.7
Toluene		1.20		g/Kg	1	1 00		< 0.00		120		135 4
Ethylbenzene Xylene		1 27 3.87		g/Kg g/Kg	1 1	$\frac{1.00}{3.00}$		<0.00		$\begin{array}{c} 127 \\ 129 \end{array}$		8 - 149.3 8 - 150.9
				<u>, </u>							40.0	- 100.9
Percent recovery is based or	n the sp	oike result. I	RPD is	based o	on the spike	e and sp	oike di	ıplıcate	e resu	lt		
		MSD			Spike	Mat	rix			Rec		RPD
Param		Result	Units	Dil.	Amount	Res		Rec]	Limit	RPD	Limit
Benzene			ng/Kg	1	1.00	< 0.00		110		9 - 130.7	3	20
Toluene			ng/Kg	1	1.00	< 0.00		117		9 - 135.4	2	20
Ethylbenzene			ng/Kg	1	1.00	< 0.00		122		3 - 149.3	4	20
Xylene			ng/Kg	1	3 00	< 0.00		123		3 - 150.9	5	20
Percent recovery is based or	n the sp	oke result. 1	RPD is l	based o	on the spike	e and sp	oike di	iplicate	e resu	lt.		
C		MS	MS		TT .	D 1	Spi		MS	MSD		Rec.
Surrogate Trifluorotoluene (TFT)		Result 1.24	Res		Units mg/Kg	Dıl	Amo 1		Rec. 124	Rec. 122		amit - 128.3
				25	mg/Kg	1	1		124	$\frac{122}{125}$		- 120.3 - 161.2
4-Bromofluorobenzene (4-B	FTR3	1.29	F -	25	morno							

Date Analyzed:

QC Preparation: 2008-08-19

2008-08-19

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	MS			Spike	Matri	x		Rec.
Param	Result	Units	Dil	Amount	Resul	t Rec.		Limit
GRO	12 6	mg/Kg	1	10.0	0.15	124	48.9	9 - 155.
Percent recovery is based on the s	pike result. RP	D is based on	the spike a	and spike d	uplicate r	esult.		
	•		-	_				
_	MSD		Spike	Matrix	_	Rec.	DDD	RPI
Param		nits Dil.	Amount	Result	Rec.	Limit	RPD	Lim
GRO		/Kg 1	10.0	0.15		8.9 - 155.8	1	20
Percent recovery is based on the s	pike result. RP	D is based on	the spike a	and spike d	uplicate r	esult.		
	MS	MSD		Sn	ıke N	AS MSD		Rec.
Surrogate	Result		Units I	-		tec Rec.		Limit
Trifluorotoluene (TFT)	1.24		ıg/Kg			24 113		3 - 145
4-Bromofluorobenzene (4-BFB)	1.44		-g, g ig/Kg			44 136		3 - 197.
Matrix Spike (MS-1) Spiked	l Sample 17102	24						
2p (1.12 1) Sp								
QC Batch: 51600	Da	te Analyzed.	2008-08-	$\cdot 20$			yzed By	
Prep Batch 44246	QC	Preparation:	2008-08-	$\cdot 20$		Prep	ared By	r CM
	MS			Snike	Ma	trix		Rec.
Param	MS Result	Units	Dıl	Spike Amount		trıx sult Re	¢.	Rec.
		Units mg/Kg	Dıl 1	-	Res			Limit
ГПРНС	Result 483	mg/Kg	1	Amount 250	Res	sult Re 06 19		Limit
ТПРНС	Result 483 pike result. RP	mg/Kg	the spike a	Amount 250 and spike d	Res	sult Re 06 19 esult		Limit 10 - 35
TRPHC Percent recovery is based on the s	Result 483 pike result. RP MSD	mg/Kg D is based on	the spike a	Amount 250 and spike d Matrix	Res <1 uplicate re	sult Re 06 19 esult Rec.	3	Limit 10 - 35 RPI
TRPHC Percent recovery is based on the s Param	$\begin{array}{c} {\rm Result} \\ \hline 483 \\ \\ {\rm pike \ result. \ RP} \\ {\rm MSD} \\ {\rm Result. \ \ U} \end{array}$	m mg/Kg D is based on Units Dil.	the spike a Spike Amount	Amount 250 and spike d Matrix Result	Res <1 uplicate re Rec	sult Re 06 19 esult Rec. Limit Limit	RPD	Limit 10 - 35 RPI Limit
FRPHC Percent recovery is based on the s Param FRPHC	$\begin{array}{c} {\rm Result} \\ \hline 483 \\ {\rm pike \ result. \ RP} \\ \hline {\rm MSD} \\ {\rm Result} {\rm U} \\ \hline 480 {\rm m} \\ \end{array}$	$\begin{array}{cc} & \text{mg/Kg} \\ \text{D is based on} \\ \\ \text{Jnits} & \text{Dil.} \\ \\ \text{g/Kg} & 1 \\ \end{array}$	the spike a Spike Amount 250	Amount 250 and spike d Matrix Result <1.06	Res <1 uplicate re Rec 192	sult Re 06 19 esult Rec. Limit 10 - 354	3	Limit 10 - 35 RPI
TRPHC Percent recovery is based on the s Param TRPHC	$\begin{array}{c} {\rm Result} \\ \hline 483 \\ {\rm pike \ result. \ RP} \\ \hline {\rm MSD} \\ {\rm Result} {\rm U} \\ \hline 480 {\rm m} \\ \end{array}$	$\begin{array}{cc} & \text{mg/Kg} \\ \text{D is based on} \\ \\ \text{Jnits} & \text{Dil.} \\ \\ \text{g/Kg} & 1 \\ \end{array}$	the spike a Spike Amount 250	Amount 250 and spike d Matrix Result <1.06	Res <1 uplicate re Rec 192	sult Re 06 19 esult Rec. Limit 10 - 354	RPD	Limit 10 - 35 RPI Limi
TRPHC Percent recovery is based on the s Param TRPHC	$\begin{array}{c} {\rm Result} \\ \hline 483 \\ {\rm pike \ result. \ RP} \\ \hline {\rm MSD} \\ {\rm Result} {\rm U} \\ \hline 480 {\rm m} \\ \end{array}$	$\begin{array}{cc} & \text{mg/Kg} \\ \text{D is based on} \\ \\ \text{Jnits} & \text{Dil.} \\ \\ \text{g/Kg} & 1 \\ \end{array}$	the spike a Spike Amount 250	Amount 250 and spike d Matrix Result <1.06	Res <1 uplicate re Rec 192	sult Re 06 19 esult Rec. Limit 10 - 354	RPD	Limit 10 - 35 RPI Limi
TRPHC Percent recovery is based on the s Param TRPHC Percent recovery is based on the s	$\begin{array}{c} {\rm Result} \\ \hline 483 \\ {\rm pike \ result. \ RP} \\ \hline {\rm MSD} \\ {\rm Result} {\rm U} \\ \hline 480 {\rm m} \\ \end{array}$	$\begin{array}{c} \text{mg/Kg} \\ \text{D is based on} \\ \\ \text{Units} \qquad \text{Dil.} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	the spike a Spike Amount 250	Amount 250 and spike d Matrix Result <1.06	Res <1 uplicate re Rec 192	sult Re 06 19 esult Rec. Limit 10 - 354	RPD	Limit 10 - 35 RPI Limi
-	Result 483 pike result. RP MSD Result U 480 m pike result. RP	$\frac{\text{mg/Kg}}{\text{D is based on}}$ $\frac{\text{Units}}{\text{Dil.}}$ $\frac{\text{g/Kg}}{\text{D is based on}}$	the spike a Spike Amount 250 the spike a	Amount 250 and spike d Matrix Result <1.06 and spike d	Res <1 uplicate re Rec 192	Rec. Limit 10 - 354	RPD 1	Limit 10 - 35 RPI Limit 20
TRPHC Percent recovery is based on the s Param TRPHC Percent recovery is based on the s Matrix Spike (MS-1) Spiked QC Batch. 51624	Result 483 pike result. RP MSD Result U 480 m pike result. RP	mg/Kg D is based on Units Dil. g/Kg 1 D is based on 24 te Analyzed:	the spike a Spike Amount 250 the spike a	Amount 250 and spike d Matrix Result <1.06 and spike d	Res <1 uplicate re Rec 192	Rec. Limit 10 - 354 esult. Ana	RPD 1	Limit 10 - 35 RPI Limit 20
FRPHC Percent recovery is based on the s Param FRPHC Percent recovery is based on the s Matrix Spike (MS-1) Spiked QC Batch. 51624	Result 483 pike result. RP MSD Result U 480 m pike result. RP	$\frac{\text{mg/Kg}}{\text{D is based on}}$ $\frac{\text{Units}}{\text{Dil.}}$ $\frac{\text{g/Kg}}{\text{D is based on}}$	the spike a Spike Amount 250 the spike a	Amount 250 and spike d Matrix Result <1.06 and spike d	Res <1 uplicate re Rec 192	Rec. Limit 10 - 354 esult. Ana	RPD 1	Limit 10 - 35 RPI Limit 20
TRPHC Percent recovery is based on the s Param TRPHC Percent recovery is based on the s Matrix Spike (MS-1) Spiked QC Batch. 51624	Result 483 pike result. RP MSD Result U 480 m pike result. RP I Sample. 17102	mg/Kg D is based on Units Dil. g/Kg 1 D is based on 24 te Analyzed:	the spike a Spike Amount 250 the spike a	Amount 250 and spike d Matrix Result <1.06 and spike d	Res <1 uplicate re Rec 192	Rec. Limit 10 - 354 esult. Ana	RPD 1	Limit 10 - 35 RPI Limit 20
TRPHC Percent recovery is based on the s Param TRPHC Percent recovery is based on the s Matrix Spike (MS-1) Spiked QC Batch. 51624	Result 483 pike result. RP MSD Result U 480 m pike result. RP	mg/Kg D is based on Units Dil. g/Kg 1 D is based on 24 te Analyzed: C Preparation	the spike a Spike Amount 250 the spike a 2008-08- 2008-08-	Amount 250 and spike d Matrix Result <1.06 and spike d	Rec 192 uplicate re	sult Re 06 19 esult Rec. Limit 10 - 354 esult. Ana Prep	RPD 1	Limit 10 - 35 RPI Limit 20
TRPHC Percent recovery is based on the s Param TRPHC Percent recovery is based on the s Matrix Spike (MS-1) Spiked QC Batch. 51624	Result 483 pike result. RP MSD Result U 480 m pike result. RP I Sample. 17102	mg/Kg D is based on Units Dil. g/Kg 1 D is based on 24 te Analyzed:	the spike a Spike Amount 250 the spike a	Amount 250 and spike d Matrix Result <1.06 and spike d	Rec Rec 192 uplicate re	sult Re 06 19 esult Rec. Limit 10 - 354 esult. Ana Prep	RPD 1	Limit 10 - 35 RPI Limi 20 y. RD

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

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matrıx spikes co	$ontinued \dots$									
-		MSD			Spike	Matrix		Rec		RPD
Param		Result	Units	Dıl	Amount	Result	Rec.	Limit	RPD	Limit
		MSD			Cmiles	Matrix		Rec.		RPD
Param		MSD Result	Units	Dil.	$egin{array}{c} ext{Spike} \ ext{Amount} \end{array}$	Result	Rec.	Rec. Limit	RPD	Limit
Chloride		$\frac{\text{Result}}{3}$ 792	mg/K		500	94 59		4.7 - 123 2	7	20
		· · · · · · · · · · · · · · · · · · ·								
Percent recovery	y is based of	n the spike resul	t RPD is	s based of	n the spike a	nd spike di	iplicate r	esult.		
Matrix Spike	(MS-1)	${\bf Spiked} {\bf Sample}$	171024							
QC Batch: 5	1638		Date A	analyzed.	2008-08-2	0		Anal	yzed By	MN
•	4276			eparation		-			ared By	
F	,		~	-1				-1		
			3.fG		•	G 11	3.6			D
D			MS	TT .4.	D:1	Spike		atrıx		Rec
Param			esult 325	Units	Dil 1	Amount 250			ec. 30	Limit 0 - 197
DRO				mg/Kg					<u> </u>	0 - 197
Percent recovery	y is based or	n the spike resul	t RPD is	s based or	n the spike a	nd spike di	iplicate re	esult.	1	
		MSD			Spike	Matrix		Rec		RPD
Param		Result	Unit	s Dıl	Amount	Result	Rec	$_{ m Limit}$	RPD	Lımıt
DRO		304	mg/I	ζg 1	250	<14.5	122	0 - 197	7	20
Percent recovery	y is based or	n the spike resul	t. RPD 1	s based o	n the spike a	nd spike di	iplicate r	esult.		
		MS M	ISD			Spike	MS	S MSD		Rec
Surrogate		-	esult	Units	Dil.	Amount	Rec			Limit
n-Triacontane	4 5		155	mg/Kg	1	100	163		57	7.5 - 139
ii iiiacomane				***8/ **8			100			
Standard (IC	V-1)									
QC Batch. 515	585		Data	Analyzed.	2008-08-19	1		Δna	l lyzed B	v ER
QC Datell. 516	000		Date	inary zeu.	2000-00-13	•		Alla	iyzed D	у Шіс
			ICV	√s	ICVs	ICVs		Percent		
			Tru	ıe	Found	Percen	,	Recovery		Date
Param	Flag	Units	Cor		Conc	Recover	y	Limits		nalyzed
Benzene		${ m mg/Kg}$	0.10		0 0863	86		85 - 115		08-08-19
Toluene		mg/Kg	0.10		0 0878	88		85 - 115		08-08-19
Ethylbenzene		mg/Kg	0.10		0.0853	85		85 - 115		08-08-19
Xylene		mg/Kg	0.30	00	0.256	85		85 - 115	20	08-08-19

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

Report Date: August 21, 2008 MEWBOU027PIT

Standard (CCV-1)

QC Batch. 51600

Work Order 8081911 Bradley 6 Fed #1 Page Number 12 of 13 Eddy County, NM

Analyzed By CM

MEWBOU	027PIT		E	Bradley 6 Fed :	#1	E	ldy County, NM
Standard	(CCV-1)						
QC Batch:	51585		Date Analy	yzed: 2008-08	-19	Ana	lyzed By· ER
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent,	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0878	88	85 - 115	2008-08-19
Toluene		mg/Kg	0.100	0.0893	89	85 - 115	2008-08-19
Ethylbenze	ne	${ m mg/Kg}$	0 100	0.0865	86	85 - 115	2008-08-19
Xylene		mg/Kg	0 300	0.259	86	85 - 115	2008-08-19
Standard	(ICV-1)						
QC Batch.	51586		Date Analy	yzed: 2008-08	-19	Ana	lyzed By. ER
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
GRO .		mg/Kg	1.00	0.891	89	85 - 115	2008-08-19
Standard	(CCV-1)						
QC Batch:	51586		Date Analy	yzed: 2008-08	-19	Ana	lyzed By. ER
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
GRO	8	mg/Kg	1.00	0 846	85	85 - 115	2008-08-19
Ct - d - d	(ICV 1)						
Standard	(IC V-1)						
QC Batch.	51600		Date Analy	zed: 2008-08-	20	Anal	yzed By: CM
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
TRPHC		mg/Kg	100	90.8	91	80 - 120	2008-08-20

Date Analyzed. 2008-08-20

Report Date. August 21, 2008 MEWBOU027PIT

Work Order: 8081911 Bradley 6 Fed. #1 Page Number. 13 of 13 Eddy County, NM

				Dradicy or ed.	<i>TF</i> 1		dy County, 11111
Param	Flag	Units	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	90.4	90	80 - 120	2008-08-20
Standard	(ICV-1)						
QC Batch.	51624		Date Ana	alyzed. 2008-0	8-20	Anal	yzed By. RD
. T	771	**	ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
$\frac{\text{Param}}{\text{Chloride}}$	Flag	Units mg/Kg	Conc. 100	Conc. 99.0	Recovery 99	Limits 85 - 115	Analyzed 2008-08-20
Standard QC Batch	(CCV-1) 51624		Date Ana	alyzed: 2008-0	8-20	Anal	yzed By: RD
			CCVs True	CCVs Found	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2008-08-20
Standard	(ICV-1)						
QC Batch.	51638		Date Ana	lyzed 2008-08	3-20	Analy	yzed By: MN
			ICVs True	ICVs Found	$\begin{array}{c} \text{ICVs} \\ \text{Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2008-08-20
Standard	(CCV-1)						
QC Batch.	51638		Date Ana	lyzed: 2008-08	3-20	Analy	zed By· MN
_			CCVs True	CCVs Found	$\begin{array}{c} \text{CCVs} \\ \text{Percent} \end{array}$	Percent Recovery	Date
Param DRO	Flag	Units	Conc 250	Conc. 264	Recovery 106	Limits 85 - 115	Analyzed 2008-08-20
DRU		mg/Kg	20∪	204	100	89 - 119	2008-08-20

LAB	Order	ID#	

8081911

ge______ of _____

TraceAnalysis, Inc.

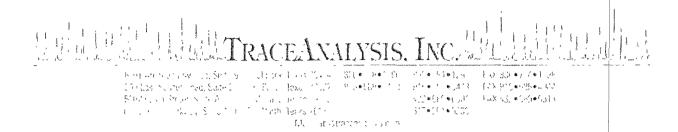
email lab@traceanalysis.com

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

5002 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

8808 Camp Bowie Blvd West, Suite 180 **Ft. Worth, Texas 76116** Tel (817) 201-5260 Fax (817) 560-4336

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Invoice to	rom above) MEUDUM)					7		-						624	Ext(C35)	-	5040	Ser											-	stan	
Project #	_					2Proj	ect Na	me:			_	Λ	#/		B / 6	, 924 05 E)		1	Cr. Pb					325							from	
Project Local	UBU 037PIT tign (Mcludipg state).		·		\rightleftharpoons	Sam		<u>L</u>	hurel	ψ	Fee	2	'''		/ 8260B	7X1005 Ex	NT.	ć	- B				4	8270C / 625				<u></u>		İ	erent	
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LAB #	FIELD CODE	# CONTAINERS	Volume / Am	WATER	AIR	Storet.	HCI	H,SO,	NaOH	ICE	NONE		DATE	TIME	MTBE 802	TPH 418 1 / TX	(PH 8015 GRO / DRO) TVHC	PAH 8270C /	TCLP Metals Ag As ba	TCLP Volatile	TCLP Semi Volatiles	ICLP Pesticides	GC/MS Vol 8260B / 624	GC/MS Semi Vol	PCB's 8082 / 608	BOD, TSS, pH	Moisture Con	4500 B			Turn Around Time if different from	Hold
171024	Floor Roseath Forgato	1	-	X		-		-		X	\dashv	3	315.08				\ \ \		† <u> </u>		+	+=	-			-	1	X	+			11
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Submittal of	samples constitutes agreement to Ter	ms and	Conc	litions li	sted o	n rev	erse s	ide (of C						Car	rier#		N	5	7	18	3	W.	83	6	13	}	6	200	c)		



NELAP Certifications

Lubbock: T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

LELAP-02002

Kansas E-10317

Analytical and Quality Control Report

Shelly Tucker Talon LPE-Hobbs 318 E Taylor Hobbs, NM, 88240

Report Date. August 27, 2008

Work Order: 8081912

Project Location. Eddy County, NM Project Name.

Bradley 6 Fed. #1

Project Number:

MEWBOU027PIT

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

Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
171025	Insitu Contents	soıl	2008-08-18	10.30	2008-08-19

Comment(s)

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

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

- U Not detected The analyte is not detected above the SDL.
- ${f J}$ ~ Estimated The analyte is positively identified and the value is approximated between the SDL and MQL
- $\,B\,\,$ The sample contains less than ten times the concentration found in the method blank
- ${f JB}$ The analyte is positively identified and the value is approximated between the SDL and MQL. The sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL

Dr. Blair Leftwich, Director

Case Narrative

Samples for project Bradley 6 Fed. #1 were received by TraceAnalysis, Inc. on 2008-08-19 and assigned to work order 8081912 Samples for work order 8081912 were received intact at a temperature of 11.0 deg. C

Samples were analyzed for the following tests using their respective methods

Test	Method
Chloride (IC)	E 300 0
Paint Filter	N/A
SPLP Ag	S 6010B
SPLP As	S 6010B
SPLP Ba	S 6010B
SPLP BTEX by 8260	S 8260B
SPLP Cd	S 6010B
SPLP Cl	E 300.0
SPLP Cr	S 6010B
SPLP Cyanide	SM 4500-CN C,E
SPLP Fluoride	$\to 300\ 0$
SPLP Hg	S 7470A
SPLP NO3 (IC)	E 300.0
SPLP PAH	S 8270C
SPLP Pb	S 6010B
SPLP PCB	S 8082
SPLP Radium 226+228	Outside Testing
SPLP Se	S 6010B
SPLP U	S 6010B
SPLP Volatiles	S 8260B
TPH 418 1	E 418 1

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 8081912 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.

Page Number 4 of 37 Eddy County, NM

Analytical Report

Sample: 171025 - Insitu Contents

Laboratory. Lubbock

Chloride (IC) Analysis

QC Batch. 51597 Prep Batch. 44245 Analytical Method

E 300.0 Date Analyzed 2008-08-20 Sample Preparation. 2008-08-19

Prep Method. N/A Analyzed By RDPrepared By: RD

SDLMQL Method Based Based Blank MQL MDL Parameter Flag Result Result Result Units Dilution SDL (Unadjusted) (Unadjusted) Chloride 1400 1400 <17.6 mg/Kg 50 17.6 1 0.3527

Sample: 171025 - Insitu Contents

Laboratory. Lubbock

Paint Filter Analysis. QC Batch 51704 Prep Batch 44331

Analytical Method: N/A Date Analyzed 2008-08-21 Sample Preparation. 2008-08-21

Prep Method. N/A Analyzed By. SS Prepared By SS

KV

MQL SDL Method Based Based Blank MQL MDL Result Result Parameter Flag Result Units Dilution SDL (Unadjusted) (Unadjusted) 0.00 0.00 0.00 Paint Filter 0.00 1

Sample: 171025 - Insitu Contents

Lubbock Laboratory.

SPLP Ag Analysis: QC Batch. 51658 44269 Prep Batch

Analytical Method: Date Analyzed: SPLP Extraction.

Sample Preparation

S 6010B 2008-08-21 2008-08-20 2008-08-21

Prep Method. SPLP 1312 RRAnalyzed By. Prepared By KV

Prepared By:

SDL MQL Method Based Based Blank MQL MDL Flag Result Result Result Units Dilution SDL Parameter (Unadjusted) (Unadjusted) SPLP Silver < 0.00210 < 0 00300 < 0.00210 0.00210 0.003 0 0021 mg/L

Sample: 171025 - Insitu Contents

Laboratory. Lubbock

SPLP As Analysis. QC Batch: 51658 44269 Prep Batch.

Analytical Method. S 6010B Date Analyzed: SPLP Extraction Sample Preparation:

2008-08-21 2008-08-20 2008-08-21

Prep Method **SPLP 1312** Analyzed By. RR

Prepared By KVPrepared By: KV , 1

Work Order. 8081912 Bradley 6 Fed #1 Page Number: 5 of 37 Eddy County, NM

Parameter Flag	MEWBOU02	(P11			Bra	aley o re	a #1		Łady	County, NIV
Sample: 171025 - Insitu Contents Laboratory: Lubbock Analysis. SPLP Ba			Based Result	Based Result	Blank Result	Units			(Unadjusted)	MDL (Unadjusted)
Laboratory: Lubbock	SPLP Arsenic		< 0 00430	< 0 0100	< 0.00430	mg/L	1	0.00430	0 01	0 0043
Analysis	Sample: 171	025 - Ins	itu Conte	nts						
QC Batch: 51658 Date Analyzed: 2008-08-21 Analyzed By. RR RR Prep Batch: 44269 SPLP Extraction Sample Preparation 2008-08-21 Prepared By. KV KV SDL Based Based Based Blank Parameter Flag Result Result Result Result Result Units Dilution Duttion SDL (Unadjusted) MQL (Unadjusted)	v								D 15.1	CDID 4040
Prep Batch: 44269										SPLP 1312
Sample Preparation 2008-08-21 Prepared By. KV	•									
SDL MQL Method Based Based Blank Contents	Prep Batch:	44269								
Based Based Based Blank Result Units Dilution SDL (Unadjusted) (Unad SPLP Barium O.121 O.121 O.00170 mg/L 1 O.00170 O.1 O.0				Samp	ie Preparati	on 200	8-08-21		Prepared By.	K V
SPLP Barium	_		Based	Based	Blank		5. .	ap.	•	MDL
Sample: 171025 - Insitu Contents Lubbock		Flag								(Unadjusted)
Laboratory Lubbock Analytical Method. S 6010B Prep Method. SPLF QC Batch: 51658 Date Analyzed. 2008-08-21 Analyzed By: RR Prep Batch: 44269 SPLF Extraction. 2008-08-20 Prepared By: KV Sample Preparation. 2008-08-21 Prepared By: KV Sample Preparation. 2008-08-21 Prepared By: KV Sample Preparation. 2008-08-21 Prepared By: KV SDL MQL Method Based Based Blank MQL	SPLP Barium		0.121	0.121	<0.00170	mg/L	1	0 00170	0.1	0.0017
Based Based Blank MQL M	QC Batch:	51658		Date SPLF	Analyzed. Centraction.	200a . 200a	8-08-21 8-08-20		Analyzed By: Prepared By:	KV
Parameter Flag Result Result Units Dilution SDL (Unadjusted) (Unadserved)									MOT	MDI
SPLP Cadmium U <0 00140 <0 00500 <0.00140 mg/L 1 0 00140 0 005 0.0 Sample: 171025 - Insitu Contents Laboratory Lubbock Analysis SPLP Cl Analytical Method E 300.0 Prep Method SPLF QC Batch 51714 Date Analyzed: 2008-08-22 Analyzed By. RD Prep Batch. 44341 SPLP Extraction: 2008-08-20 Prepared By. RD SDL MQL Method	Doromotor	Flor					a Dilution	CDI	-	MDL
Sample: 171025 - Insitu Contents Laboratory Lubbock Analysis SPLP Cl Analytical Method E 300.0 Prep Method SPLF QC Batch 51714 Date Analyzed: 2008-08-22 Analyzed By. Prep Batch. 44341 SPLP Extraction: 2008-08-20 Prepared By: RD Sample Preparation. 2008-08-22 Prepared By. RD SDL MQL, Method										(Unadjusted) 0.0014
Analysis SPLP Cl Analytical Method E 300.0 Prep Method SPLF QC Batch 51714 Date Analyzed: 2008-08-22 Analyzed By. Prep Batch. 44341 SPLP Extraction: 2008-08-20 Prepared By. Sample Preparation. 2008-08-22 Prepared By. SDL MQL, Method	Sample: 1710	025 - Ins	itu Conte							
QC Batch 51714 Date Analyzed: 2008-08-22 Analyzed By. RD Prep Batch. 44341 SPLP Extraction: 2008-08-20 Prepared By. Sample Preparation. 2008-08-22 Prepared By. RD SDL MQL, Method	v			Anala	traal Matha	a 17.90	00.0		Duon Mothod	SPLP 1312
Prep Batch. 44341 SPLP Extraction: 2008-08-20 Sample Preparation. 2008-08-22 Prepared By: RD RD SDL MQL, Method	•			_						
Sample Preparation. 2008-08-22 Prepared By. RD SDL MQL Method	•									
SDL MQL Method	тер васи.	11011								
· ·			SDI	_	-				- •	
					•				MOL.	MDL
	Parameter	Flag				Units	Dilution	SDL	-	(Unadjusted)
The state of the s										0.137

Sample: 171025 - Insitu Contents

ock Cr SDL	Date Ana SPLP Ex Sample P		S 60103 2008-08 2008-08 2008-08	8-21 8-20		Prep Method. Analyzed By: Prepared By: Prepared By.	SPLP 1312 RR KV
SDL	MOI					rieparea by.	KV
Based Flag Result	Based	Method Blank Result	Units	Dilution	SDL	$egin{aligned} \mathbf{MQL} \ \mathbf{(Unadjusted)} \end{aligned}$	MDL (Unadjusted)
<u> </u>		< 0.000900	mg/L	1			0.0009
Cyanide	Date Ana SPLP Ext	lyzed traction:	2008-08 2008-08	-21 -20		Analyzed By Prepared By:	SPLP 1312 SS SS SS
SDL Based	Based	Blank	Inite	Dulution	SD1	MQL	MDL (Up adays tod)
						2	(Unadjusted)
ock Fluoride SDL	Analyt Date A SPLP Sample MQL M	Analyzed: Extraction e Preparation Method	2008 2008	8-08-22 8-08-20		Analyzed By. Prepared By: Prepared By	SPLP 1312 RD RD RD
			Inite	Dilution	SDI	· · · · · · · · · · · · · · · · · · ·	MDL (Un iduated)
$\frac{\text{Result}}{U}$ <0.444			ig/L	5	0.444	(Unadjusted) 0.2	(Unadjusted) 0 0889
	SDL Based Result Insitu Content Ock Cyanide Cyanide SDL Based Flag Result SDL Based Result SDL Based Result	Insitu Contents Ock Cyanide Analytica Date Ana SPLP Ext Sample Property SDL MQL M Based Based Flag Result Result U <1.94 <2.00 Insitu Contents Ock Fluoride Analytica SPLP Sample SPLP Sample SPLP Sample SPLP Sample SPLP Sample SPLP Sample SPLP Result	Insitu Contents Ock Cyanide Analytical Method Date Analyzed SPLP Extraction: Sample Preparation. SDL MQL Method Based Blank Flag Result Result Result U Insitu Contents Ock CFluoride Analytical Method Date Analytical Method Date Analyzed: SPLP Extraction Sample Preparatio SDL MQL Method Date Analyzed: SPLP Extraction Sample Preparatio SDL MQL Method Based Based Blank Flag Result Result Result U	Company	Colonomic Colo	Colonogoo Colo	Note

Report Date. August 27, 2008 MEWBOU027PIT

Work Order: 8081912 Bradley 6 Fed #1

Page Number 7 of 37 Eddy County, NM

							•						0,
			SDL	ľ	мQL		Method						
		Ε	$_{ m ased}$	В	ased		Blank					MQL	MDL
Parameter	Flag	R	esult	\mathbf{R}	esult		Result	Unı	ts I	Dilution	SDL	(Unadjusted)	(Unadjusted)
SPLP Mercury	U	<0.000	00336 -	< 0.00	0200	< 0.0	0000336	mg_{I}	/L	1	0.000033	6 0.0002	3 36e-05
Sample: 17102	5 - Insi	itu C	ontent	5									
•	ıbbock												
	PLP NO	3 (IC)					Method		E 300			Prep Method	SPLP 1312
~	714					Anal				08-22		Analyzed By:	RD
Prep Batch. 44	341						raction.			08-20		Prepared By:	RD
					Samp	ole Pr	eparatio	on i	2008-	08-22		Prepared By:	RD
		SDI	. N	1QL	Me	ethod							
		Basec		ased		3lank						MQL	MDL
Parameter Fl	lag	Result	t Re	sult	R	esult	Unı	ts	Dılı	ıtıon	SDL	(Unadjusted)	(Unadjusted)
Nitrate-N	U ,	< 0 350) <	1.00	<	0.350	mg/	L/L		5	0 350	0 2	0.07
Sample: 17102	5 - Insi	itu C	ontent	s									
Laboratory. Lu	ıbbock												
•	PLP PAI	Ŧ		A	nalvti	cal M	lethod:	S 8	3270C	;		Prep Method.	SPLP 1312
v	663				ate A				08-08			Analyzed By	DS
•	297				PLP I	-			08-08			Prepared By:	DS
							aration		08-08			Prepared By.	DS
				CDI	7	MOT	Mas	. L J					
				$_{ m ased}$		MQL Based		hod lank				MQL	MDL
Parameter		Flag		$_{ m esult}$		esult			Unit	s Dilutic	n SDI	-	
Naphthalene		U	< 0.000								0.0000		8 53e-05
Acenaphthylene		U					< 0.0000		Ψ,		0.0000		7.68e-05
Acenaphthene		U	< 0.000				< 0.000				0 0000		0 0001028
Dibenzofuran		U	< 0.00				< 0.000		٠,		0.0002		0.0002
Fluorene		U					< 0.0000		~,		0.0002		8.61e-05
Anthracene		U	< 0.000				< 0.000				0 00001		0.00017
Phenanthrene		U					< 0.0000				0.0000		8.84e-05
Fluoranthene		U					< 0.0000				0.0000		9.69e-05
Pyrene		U					< 0.0000				0 0000		8.55e-05
Benzo(a)anthrace	ene	U					< 0.0000				0 0000	1	7.03e-05
Chrysene	0110	U	< 0.00				< 0.000		٠,		0 0001		0 0001129
Benzo(b)fluorant	hene	U	< 0.000				< 0.000				0 0001		0 0001343
Benzo(k)fluorant		U	< 0.000				< 0.000				0.0002		0 000227
Benzo(a)pyrene		\boldsymbol{U}	< 0.000				< 0.000				0.0002		0.0002
Indeno $(1,2,3\text{-cd})$ _I	pyrene	U	< 0.00				< 0.000		~ ·		0 0002		0 000253
Dibenzo(a,h)anth		U											
	aracene		< 0.000	OTOU	<0.00	0200	< 0.000	TOO	mg/I	L 1	$0\ 0001$.00 0.0002	0.00018

Work Order: 8081912 Bradley 6 Fed #1

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							Spike	F	Percent	Recovery
Surrogate		lag	Result	Units	Diluti	on	Amount	R	ecovery	Limits
2-Fluorobiphe	•		0.0477	mg/L	1		0.0800		60	37.4 - 123
Nitrobenzene			$0\ 0454$	${ m mg/L}$	1		0.0800		57	34 3 - 130
Terphenyl-d1	4		0.0720	, mg/L	1		0.0800		90	10 - 252
Sample: 17	1025 - Insi	tu Co	ontents		•					
Laboratory:	Lubbock									
Analysis.	SPLP Pb		Anal	ytical Metho	od. S 60	10B		Pre	ep Method	SPLP 1312
QC Batch:	51658			Analyzed		3-08-21			alyzed By.	RR
Prep Batch	44269			P Extraction		3-08-20			epared By.	KV
Top = door	11200			ole Preparat		3-08-21			epared By:	KV
			~	, P					spared 25.	12.
		SD	L MQL	Method						
		Base	d Based	Blank					MQL	MDL
Parameter	Flag	Resul		Result	Units	Dilution			Inadjusted)	(Unadjusted)
SPLP Lead	<i>U</i> <	0.0032	0 < 0.0100	< 0.00320	m mg/L	1	0.0032	0	0.01	0.0032
Laboratory. Analysis. QC Batch. Prep Batch.	Lubbock SPLP PCI 51822 44447	3	Dat SPI	llytical Meth e Analyzed: P Extractio iple Prepara	200 n: 200	082 8-08-26 8-08-24 8-08-26		Ana Pre	ep Method: alyzed By: epared By	SPLP 1312 TG TG TG
			SDL	MQL	Method					
			\mathbf{Based}	Based	Blank				MQL	MDL
Parameter		Flag	Result	Result	Result	Units D1	lution S	DL	(Unadjusted)	(Unadjusted)
Aroclor 1016	(PCB-1016)		< 0.000122 <	(0 000500 <	< 0 000122	mg/L	1 0.0	00122	0 0005	0 0001223
Aroclor 1221	(PCB-1221)		< 0 000118 <	(0.000500 <	< 0.000118	mg/L	1 0.0	00118	0.0005	0.0001176
Aroclor 1232	(PCB-1232)		< 0 0000459 <	(0 000500 <	0.0000459	mg/L	1 0.00	00459	0.0005	4 59e-05
Aroclor 1242	(PCB-1242)		< 0 000125 <	(0.000500 <	< 0.000125	mg/L	1 00	00125	0.0005	0.0001252
Aroclor 1248	(PCB-1248)		< 0.0000546 <	< 0.000500 <	0.0000546	mg/L	1 0.00	00546	0.0005	5.46e-05
Aroclor 1254	`		< 0.0000569 <				1 0.00	00569	$0\ 0005$	5.69e-05
Aroclor 1260	(PCB-1260)		< 0 0000331 <	< 0.000500 <	0.0000331	mg/L	1 0.00	000331	$0\ 0005$	3 31e-05
Aroclor 1268	(PCB-1268)	U	< 0.0000282 <	(0.000500 <	0.0000282	mg/L	1 0.00	000282	0 0005	2.82e-05
							Spike		Percent	Recovery
Surrogate		Flag	Result	Units	Dılı	ition	Amount]	Recovery	Limits
Deca chlorobi	phenyl		0.000526	mg/L		1	0.000500		105	10 - 128

Sample: 171025 - Insitu Contents

Laboratory: Lubbock

Report Date MEWBOU0	-	27, 2008		V		der 808				nber: 9 of 37 County, NM
Analysis QC Batch: Prep Batch:	SPLP Se 51658 44269		Date SPLI	ytical Me Analyze Extract ble Prepa	d. tıon:	S 60103 2008-08 2008-08 2008-08	8-21 8-20		Prep Method Analyzed By. Prepared By: Prepared By.	SPLP 1312 RR KV KV
Parameter SPLP Selenu	Flag	SDI Based Resul	d Base t Resu	d B lt Re		Units	Dilution 1	SDL 0.0131	MQL (Unadjusted)	MDL (Unadjusted) 0.0131
SPLP Selenii	um	<0.013	1 <0.050	0.0	0131	mg/L	1	0.0131	0.05	0.0131
Sample: 17	71025 - In	situ Conte	ents							
Laboratory Analysis QC Batch: Prep Batch	Lubbock SPLP U 51658 44269		Date SPLI	ytical Me Analyzee Extract ble Prepa	d: non:	S 60101 2008-08 2008-08 2008-08	3-21 3-20		Prep Method. Analyzed By. Prepared By Prepared By	SPLP 1312 RR KV KV
Parameter	Flag	SDL Based Result	MQL Based Result	Metho Blan Resul	k	nits I	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
SPLP U	$\overline{}$	< 0.0105	< 0.0500	< 0.010			1	0.0105		0.0105
SPLP U	U .	< 0.0105	< 0.0500	< 0.010		g/L	1	0.0105	0 05	0 0105
SPLP U Sample: 17				<0.010			1	0.0105		0 0105
		situ Conte	ents A D SI	<0.010 nalytical ate Analytical Extra Extra mple Property (1997)	Method yzed. raction:	g/L l: S 82 2008 2008	1 260B 8-08-20 8-08-21 8-08-20			0 0105 SPLP 1312 JG JG JG
Sample: 17 Laboratory Analysis QC Batch. Prep Batch	Lubbock SPLP Vo 51703	situ Conte	ents A D SI SA SDL Based	nalytical ate Anal PLP Exti imple Pro MQL Based	Method yzed. raction: eparatio Metho Blan	g/L l: S 82 2008 2008 on. 2008	260B 8-08-20 8-08-21 8-08-20		0 05 Prep Method. Analyzed By: Prepared By Prepared By MQL	SPLP 1312 JG JG JG MDL
Sample: 17 Laboratory Analysis QC Batch. Prep Batch	Lubbock SPLP Vo 51703 44330	situ Conte	e nts A D SI Sa SDL Based Result	nalytical ate Anal PLP Exti ample Pro MQL Based Result	Method yzed. raction: eparatio Metho Blan Resu	l: S 82 2008 2008 on. 2008 od ok lt Unit	260B 8-08-20 8-08-21 8-08-20	n SDL	0 05 Prep Method. Analyzed By: Prepared By Prepared By MQL	SPLP 1312 JG JG JG
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chlorio 1,1-Dichloroe	Lubbock SPLP Vo 51703 44330	situ Conte olatiles Flag U U	ents A D SI SA SDL Based	nalytical ate Anal PLP Exti imple Pro MQL Based	Method yzed. raction: eparatio Metho Blan	l: S 82 2008 2008 on. 2008 od ok lt Unit	260B 8-08-20 8-08-21 8-08-20 cs Dilution L 1		Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted)	SPLP 1312 JG JG JG JG MDL (Unadjusted)
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chlorid 1,1-Dichloroe Methylene ch	Lubbock SPLP Vo 51703 44330 de ethene	situ Conte olatiles Flag U U J	ents A D SI Sa SDL Based Result <0.135 <0.136 3.41	nalytical ate Analy PLP Extra ample Pro MQL Based Result <100 <1.00 <5.00	Method yzed. raction: eparatio Blan Resu < 0.13 < 0.64	I: S 82 2008 2008 2008 on. 2008 od ok It Unit 35 μg/1 49 μg/1	260B 8-08-20 8-08-21 8-08-20 cs Dilution L 1 L 1 L 1	SDL 0 135 0.136 0 649	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe	Lubbock SPLP Vo 51703 44330 de ethene aloride ethane	situ Conte olatiles Flag U U J U	ents A D SI SE SDL Based Result <0.135 <0.136 3.41 <0.0600	nalytical ate Analy PLP Extra ample Pro MQL Based Result <100 <1.00 <5.00 <1.00	Method yzed. raction: eparatio Blan Resu < 0.13 < 0.64 < 0.060	l: S 82 2008 2008 2008 dd ak lt Unit 35 \mu g/1 49 \mu g/1 00 \mu g/1	260B 8-08-20 8-08-21 8-08-20 cs Dilution L 1 L 1 L 1 L 1	n SDL 0 135 0.136 0 649 0.0600	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe 1,2-Dichloroe 1,2-Dichloroe	Lubbock SPLP Vo 51703 44330 de ethene aloride ethane	Flag Flag U U U U U U U U U U U U U	SDL Based Result <0.135 <0.136	nalytical ate Analy PLP Extra ample Pro MQL Based Result <100 <1.00 <5.00 <1.00 <1.00	Method yzed. raction: eparatio Blan Resu <0.13 <0.64 <0.066 <0.11	l: S 82 2008 2008 2008 dot lt Unit 35 \(\mu_g/1 49 \(\mu_g/1 13 \(\mu_g/1 13 \(\mu_g/1 13 \)	260B 8-08-20 8-08-21 8-08-20 ES Dilution L 1 L 1 L 1 L 1	n SDL 0 135 0.136 0 649 0.0600 0 113	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06 0 113
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe 1,2-Dichloroe Chloroform	Lubbock SPLP Vo 51703 44330 de ethene alloride ethane ethane	Flag Flag U U U U U U U U U U U U U	ents A D SI Sa SDL Based Result <0.135 <0.136 3.41 <0.0600 <0.113 <0.141	nalytical ate Analy PLP Extra ample Pro MQL Based Result <1 00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	Method yzed. raction: eparation Blan Resu < 0.13 < 0.64 < 0.060 < 0.11 < 0.14	l: S 82 2008 2008 2008 dod lk lt Unit 85 \mu g/1 49 \mu g/1 13 \mu g/1 141 \mu g/1	260B 8-08-20 8-08-21 8-08-20 SS Dilution L 1 L 1 L 1 L 1 L 1	n SDL 0 135 0.136 0 649 0.0600 0 113 0.141	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06 0 113 0.141
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe 1,2-Dichloroe Chloroform 1,1,1-Trichlor	Lubbock SPLP Vo 51703 44330 de ethene alloride ethane ethane	Flag U U U U U U U U U U U U	SDL Based Result <0.135 <0.136 3.41 <0.0600 <0.113 <0.141 <0.116	malytical ate Analytical ate Analyti	Method yzed. raction: eparation Blan Resu < 0.13 < 0.64 < 0.060 < 0.11 < 0.14 < 0.11	l: S 82 2008 2008 2008 dod. k lt Unit 85 \mu g/1 49 \mu g/1 13 \mu g/1 141 \mu g/1 16 \mu g/1	260B 8-08-20 8-08-21 8-08-20 SS Dilution L 1 L 1 L 1 L 1 L 1 L 1	n SDL 0 135 0.136 0 649 0.0600 0 113 0.141 0.116	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5 1 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06 0 113 0.141 0 116
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe 1,2-Dichloroe Chloroform 1,1,1-Trichlor Benzene	Lubbock SPLP Vo 51703 44330 de ethene aloride ethane ethane toethane	Flag U U U U U U U U U U U U U	A D SI Set SDL Based Result <0.135 <0.136 3.41 <0.0600 <0.113 <0.141 <0.116 0.470	malytical ate Analytical ate Analyti	Method yzed. raction: eparation Blan Resu < 0.13 < 0.64 < 0.060 < 0.11 < 0.14 < 0.14 < 0.14	l: S 82 2008 2008 2008 dod. k lt Unit 35	260B 8-08-20 8-08-21 8-08-20 SS Dilution L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	n SDL 0 135 0.136 0 649 0.0600 0 113 0.141 0.116 0 146	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5 1 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06 0 113 0.141 0 116 0 146
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe Chloroform 1,1,1-Trichlor Benzene Carbon Tetra	Lubbock SPLP Vo 51703 44330 de ethene alloride ethane ethane ethane achloride	Flag U U U U U U U U U U U U U	Solution A D SI See SDL Based Result <0.135 <0.136	malytical ate Analytical ate Analyti	Method yzed. raction: eparatio Blan Resu <0.13 <0.64 <0.064 <0.11 <0.14 <0.14 <0.079	l: S 82 2008 2008 2008 od. k lt Unit 35 \(\mu_g/1\) 49 \(\mu_g/1\) 41 \(\mu_g/1\) 46 \(\mu_g/1\) 46 \(\mu_g/1\) 60 \(\mu_g/1\) 60 \(\mu_g/1\) 60 \(\mu_g/1\)	260B 8-08-20 8-08-21 8-08-20 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	1 SDL 0 135 0.136 0 649 0.0600 0 113 0.141 0.116 0 146 0 0790	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 5 1 1 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06 0 113 0.141 0 116 0 146 0.079
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe Chloroform 1,1,1-Trichlor Benzene Carbon Tetra Trichloroethe	Lubbock SPLP Vo 51703 44330 de ethene alloride ethane ethane ethane achloride	Flag U U U U U U U U U U U U U	SDL Based Result <0.135 <0.136 3.41 <0.0600 <0.113 <0.141 <0.116 0.470 <0.0790 <0.117	malytical ate Analytical ate Analyti	Method yzed. raction: eparatio Blan Resu <0.13 <0.64 <0.014 <0.11 <0.14 <0.079 <0.11	I: S 82 2008 2008 2008 2008 2008 2008 2008 2	260B 8-08-20 8-08-21 8-08-20 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	1 SDL 0 135 0.136 0 649 0.0600 0 113 0.141 0.116 0 146 0 0790 0 117	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 1 1 1 1 1 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0.136 0.649 0.06 0.113 0.141 0.116 0.146 0.079 0.117
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe Chloroform 1,1,1-Trichlor Benzene Carbon Tetra Trichloroethe Toluene	Lubbock SPLP Vo 51703 44330 de ethene nloride ethane ethane (ED roethane achloride ene (TCE)	Flag U U J U U U U U U U U U U U U U U U U	SDL Based Result <0.135 <0.136 3.41 <0.0600 <0.113 <0.141 <0.116 0.470 <0.0790 <0.117 1.57	malytical ate Analytical ate Analyti	Method yzed. raction: eparatio Blank	I: S 82 2008 2008 2008 od od od lk Unit 35	260B 8-08-20 8-08-21 8-08-20	1 SDL 0 135 0.136 0 649 0.0600 0 113 0.141 0.116 0 146 0 0790 0 117 0.0600	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 1 1 1 1 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0 136 0 649 0.06 0 113 0.141 0 116 0 146 0.079 0.117 0.06
Sample: 17 Laboratory Analysis QC Batch. Prep Batch Parameter Vinyl Chloric 1,1-Dichloroe Methylene ch 1,1-Dichloroe Chloroform 1,1,1-Trichlor Benzene Carbon Tetra Trichloroethe	Lubbock SPLP Vo 51703 44330 de ethene alloride ethane ethane (ED roethane achloride ene (TCE)	Flag U U U U U U U U U U U U U U U U U U U	SDL Based Result <0.135 <0.136 3.41 <0.0600 <0.113 <0.141 <0.116 0.470 <0.0790 <0.117	malytical ate Analytical ate Analyti	Method yzed. raction: eparatio Blan Resu <0.13 <0.64 <0.014 <0.11 <0.14 <0.079 <0.11	I: S 82 2008 2008 2008 an. 2008 ad hk It Unit 35	260B 8-08-20 8-08-21 8-08-20 SS Dilution L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	1 SDL 0 135 0.136 0 649 0.0600 0 113 0.141 0.116 0 146 0 0790 0 117	Prep Method. Analyzed By: Prepared By Prepared By MQL (Unadjusted) 1 1 1 1 1 1 1 1 1 1 1 1	SPLP 1312 JG JG JG MDL (Unadjusted) 0.135 0.136 0.649 0.06 0.113 0.141 0.116 0.146 0.079 0.117

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sample 1710	25 continu	ued								
			SDL	MQL	Method					
			Based	Based	Blank				MQL	MDL
Parameter		Flag	Result	Result	Result	Units	Dilutio	n SDL	(Unadjusted)	(Unadjusted)
Tetrachloroe	thene (PC		< 0 270	<1.00	< 0 270	$\mu \mathrm{g/L}$	1	0.270	1	0.27
Ethylbenzene	е	J	0.750	< 1.00	< 0 0 3 6 0	$\mu \mathrm{g}/\mathrm{L}$	1	0.0360	1	0.036
$_{ m m,p-Xylene}$			4.25	4.25	< 00940	$\mu { m g}/{ m L}$	1	0.0940	1	0.094
o-Xylene			1.39	1.39	< 0.0960	$\mu { m g}/{ m L}$	1	0.0960	1	0 096
1,1,2,2-Tetra	chloroetha	ne U	< 0.125	<1 00	< 0.125	$\mu { m g/L}$	1	0.125	1	0 125
								Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilu	tion	Amount	Recovery	Limits
Dibromofluoi	romethane	;		46.1	$\mu \mathrm{g/L}$	1		50.0	92	70 - 130
Toluene-d8				49.5	$\mu { m g}/{ m L}$	1		50.0	99	70 - 130
4-Bromofluor	obenzene	(4-BFB)		50 8	$\mu \mathrm{g/L}$	1		$50\ 0$	102	70 - 130
Sample: 17 Laboratory: Analysis: QC Batch Prep Batch		3.1		-		E 418 2008- : 2008-	08-20		Prep Met Analyzed Prepared	By. CM
		SDL	MQL	Method					MOT	1.50
Parameter	Floor	Based Result	$egin{array}{c} { m Based} \\ { m Result} \end{array}$	Blank Result	Units	Dil		CDI	MQL	MDL
TRPHC	Flag	39.9	39.9	<1.06	mg/Kg		$\frac{\text{ution}}{1}$	SDL 1.06	(Unadjusted) 10	(Unadjusted) 1.0568
Method Bla	` /			,			. "	,		
QC Batch.	51597			Date Anal		008-08-2	-	•	Analyze	
Prep Batch.	44245		ı	QC Prepa	ration: 20	008-08-1	9		Prepared	d By. RD
										Reporting
Parameter		Fla	g		Result			Units		Limits
Chloride					< 0.353			${ m mg/Kg}$		0.3527

Method Blank (1)

QC Batch: 51600 Prep Batch 44246

Date Analyzed. 2008-08-20 QC Preparation: 2008-08-20

Analyzed By CM Prepared By: CM Report Date. August 27, 2008 MEWBOU027PIT

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Parameter	Flag	Result	Units	Reporting Limits
TRPHC	Tiag	<1.06	mg/Kg	1.0568
			0/0	
Method Blank (1)				
QC Batch 51649		Date Analyzed 2008-08-21		Analyzed By: KV
Prep Batch 44279		QC Preparation: 2008-08-21		Prepared By: KV
				Reportin
Parameter	Flag	Result	Units	Limits
SPLP Mercury		<0 0000336	mg/L	3.36e-05
Method Blank (1)				
QC Batch 51658		Date Analyzed 2008-08-21		Analyzed By. RR
Prep Batch. 44269		QC Preparation 2008-08-21		Prepared By. KV
•				
				Reporting
Parameter	Flag	Result	Units	Limits
SPLP Cadmium	1 1005	< 0.00140	mg/L	0 0014
Method Blank (1)				
QC Batch. 51658		Date Analyzed. 2008-08-21		Analyzed By. RR
Prep Batch. 44269		QC Preparation: 2008-08-21		Prepared By. KV
				Reportin
Parameter	Flag	Result	Units	Limits
SPLP Lead		< 0.00320	mg/L	0 0032
Method Blank (1)				
QC Batch 51658		Date Analyzed. 2008-08-21		Analyzed By RR
Prep Batch 44269		QC Preparation. 2008-08-21		Prepared By: KV
	•			Reportin
Parameter	Flag	Result	Units	Limits
SPLP Selenium		< 0.0131	$_{ m mg/L}$	0 0131

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Method Blank (1)						
QC Batch: 51658 Prep Batch 44269		Date Analyzed. QC Preparation	2008-08-21 2008-08-21			l By. RR l By: KV
Parameter SPLP Arsenic	Flag	Re: <0.00	sult 430	Units mg/L		Reporting Limits 0 0043
Method Blank (1)						
QC Batch: 51658 Prep Batch 44269		Date Analyzed QC Preparation	2008-08-21 2008-08-21		Analyze Prepared	
Danamata	T21	D.	14	Tinika		Reporting
Parameter SPLP Barium	Flag	<0.00	sult	Units mg/L		Limits 0.0017
Prep Batch 44269 Parameter	Flag		Result	Units	Prepared	Reporting Limits
SPLP Chromium		< 0.0	00900	mg/L		0 0009
Method Blank (1) QC Batch 51658		Date Analyzed:	2008-08-21			l By: RR
Prep Batch 44269		QC Preparation.	2008-08-21		Prepared	By· KV
Parameter	Flag	Res		Units		Reporting Limits
SPLP Silver		< 0.002	210	mg/L		0.0021
Method Blank (1)						
QC Batch 51658 Prep Batch: 44269		Date Analyzed QC Preparation	2008-08-21 2008-08-21		Analyzec Prepared	

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Parameter				lt	Units		Reporting Limits
SPLP U			< 0.010)5	mg/L		0.0105
Method Blank (1)							
QC Batch. 51663			Date Analyzed.	2008-08-25		Analy	zed By. DS
Prep Batch. 44297			QC Preparation:	2008-08-23		Prepa	red By. DS
							Reporting
Parameter		Flag		Result		nits	Limits
Naphthalene				0.0000853		g/L	8 53e-05
Acenaphthylene				0.0000768		g/L	7.68e-05
Acenaphthene				< 0.000103		g/L	0 0001028
Dibenzofuran				< 0.000200		g/L	0 0002
Fluorene				0 0000861		g/L	8 61e-05
Anthracene				< 0.000170		g/L	0.00017
Phenanthrene				0.0000884		g/L	8.84e-05
Fluoranthene				0.0000969		g/L	9 69e-05
Pyrene				0.0000855		g/L	8 55e-05
Benzo(a)anthracene				0 0000703 <0.000113		g/L ~/T	7 03e-05 0 0001129
Chrysene				< 0.000113		g/L	0 0001129
Benzo(b)fluoranthene Benzo(k)fluoranthene				< 0.000134		g/L g/L	0.0001343
Benzo(a)pyrene				< 0.000227		g/L g/L	0.000227
Indeno $(1,2,3\text{-cd})$ pyrene				<0.000253		g/L g/L	0.0002
Dibenzo(a,h)anthracen				< 0.000233		g/L g/L	0 000233
Benzo(g,h,ı)perylene	ie			< 0.000158		g/L g/L	0 00018
Denzo(g,n,r)perylene				<u> </u>		5/ L	0 000100
Cumpagata	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate 2-Fluorobiphenyl	Tiag	0.0554	mg/L	1	0 0800	69	10 - 146
Nitrobenzene-d5		0.0594	mg/L	1 .	0.0800	75	10 - 141
Terphenyl-d14		0.0723	mg/L	ĺ	0.0800	90	10 - 266
Method Blank (1)			<u>. </u>				
QC Batch 51703			Date Analyzed	2008-08-20		Analy	zed By. JG
Prep Batch: 44330			QC Preparation:	•			red By: JG
_							Reporting
Parameter		Fl_	ag	Result	******	nits	Limits
Vinyl Chloride				< 0.135		g/L	0 135
1,1-Dichloroethene				< 0.136		g/L	0 136
Methylene chloride				< 0 649		g/L	0.649
1,1-Dichloroethane	חמ)			< 0.0600		g/L	0.06
1,2-Dichloroethane (El	DC)			<0 113	μ_{l}	g/L	0.113
							continued

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Parameter		Flag		Result	Units		Reporting Limits
Chloroform		I lag		<0.141	$\frac{\rm Offics}{\mu \rm g/L}$		0 141
1,1,1-Trichloroethane				< 0.116	$\mu_{\rm g/L}$		0.116
Benzene				<0.146	$\mu_{\rm g}/{ m L}$		0.146
Carbon Tetrachloride				< 0.0790	$\mu_{ m g/L}$	•	0.079
Trichloroethene (TCE)				< 0.117	$\mu \mathrm{g}/\mathrm{L}$		0.117
Toluene				< 0.0600	$\mu \mathrm{g}/\mathrm{L}$		0 06
1,1,2-Trichloroethane				< 0.135	$\mu \mathrm{g}/\mathrm{L}$		0 135
1,2-Dibromoethane (EDB)				< 0.0700	$\mu \mathrm{g}/\mathrm{L}$		0 07
Tetrachloroethene (PCE)				< 0.270	$\mu \mathrm{g}/\mathrm{L}$		0.27
Ethylbenzene				< 0.210	$\mu_{\rm g/L}$		0 036
m,p-Xylene				< 0.0940	$\mu_{ m g/L}$		0.094
o-Xylene				< 0.0940	$\mu_{ m g/L}$		0.034
1,1,2,2-Tetrachloroethane				<0.125	$\mu \mathrm{g}/\mathrm{L}$		0.125
1,1,2,2-1coracinoroconane				V0.120	μg/ Ε		0.120
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		48.3	$\mu \mathrm{g/L}$		50 0	97	70 - 130
Toluene-d8		49 6	$\mu \mathrm{g}/\mathrm{L}$, <u> </u>	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		48.4	$\mu { m g/L}$		50.0	97	70 - 130
QC Batch: 51705 Prep Batch: 44332	•	Date Anal QC Prepa	•	2008-08-21 2008-08-21		Analyze Prepare	
Parameter	Elo		Dogula		I I mark a		Reporting
	Flag		Result		Units		Limits
SPLP Cyanide	<u> </u>		<1.94	ł	mg/Kg		1 94
Method Blank (1)							
QC Batch. 51714 Prep Batch. 44341		Date Analy QC Prepar	,	2008-08-22 2008-08-22		Analyzec Preparec	
D	l		D 1		T.T.		Reporting
Parameter F Nitrate-N	lag		Result < 0.0700		Units		Limits
Initrate-IN			<0.0700		mg/L		0.07
Method Blank (1)							
QC Batch. 51714		Date Analy		2008-08-22		Analyze	
Prep Batch. 44341		QC Prepar	ation	2008-08-22		Prepared	By: RD

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Reporting Limits 0 137
Method Blank (1)	
QC Batch: 51714 Date Analyzed: 2008-08-22 Analyzed	yzed By RD
	ared By RD
	Reporting
Parameter Flag Result Units	Limits
SPLP Fluoride <0.0889 mg/L	0 0889
Method Blank (1)	
QC Batch 51822 Date Analyzed 2008-08-26 Analy	yzed By. TG
Prep Batch: 44447 QC Preparation. 2008-08-26 Prepa	ared By TG
	D .
Parameter Flag Result Units	Reporting Limits
Aroclor 1016 (PCB-1016)	0 0001223
Aroclor 1221 (PCB-1221) <0.000122 mg/L <0.000118 mg/L	0 0001223
Aroclor 1232 (PCB-1232)	4 59e-05
Aroclor 1242 (PCB-1242) <0.000125 mg/L	0.0001252
Aroclor 1248 (PCB-1248) <0 0000546 mg/L	5 46e-05
Aroclor 1254 (PCB-1254) <0 0000569 mg/L	5.69e-05
Aroclor 1260 (PCB-1260)	3 31e-05
Aroclor 1268 (PCB-1268) <0.0000282 mg/L	2.82e-05
Model 1200 (1 05 1200)	2.020-00
Spike Percent	Recovery
Surrogate Flag Result Units Dilution Amount Recovery	Limits
Deca chlorobiphenyl 0.000329 mg/L 1 0.000500 66	10 - 128
Duplicate (1)	
QC Batch 51704 Date Analyzed 2008-08-21 Anal	lyzed By. SS
Prep Batch 44331 QC Preparation: 2008-08-21 Prep	pared By SS
Duplicate Sample	RPD
Param Result Result Units Dilution RPD	Lımıt
Paint Filter PASS PASS 1 0	0

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		Bradiey	0 red #1				ddy Cot	
Laboratory Control Spike (L	CS-1)							
QC Batch 51597		Analyzed:	2008-08-				dyzed B	
Prep Batch: 44245	QC F	reparation.	2008-08-	19		Pre	pared By	y. RD
	LCS			Spike	Mat	trix		Rec
Param	Result	Units	Dil.	Amount	Res		.ec	Limit
Chloride	11 9	mg/Kg	1	12.5	<0.	353 9	95	90 - 110
Percent recovery is based on the	spike result RP	D is based o	n the spike	e and spike	duplicat	e result.		
	LCSD		Spike	Matrix		Rec		RPD
Param	Result Ur	its Dıl	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	11.7 mg	/Kg 1	12 5	< 0.353	94	90 - 110	2	20
Prep Batch. 44246	QC F LCS	reparation.	2008-08-2	20 Spike	Matr		pared By	CM Rec
Param	Result	Units	Dil.	Amount	Resu			Limit
TRPHC	225	mg/Kg	1	250	<1.0			5 5 - 136
Percent recovery is based on the	spike result. RP	D is based o	n the spike	and spike	duplicat	e result		
	I CCD		G :1	Matrix		Rec.		RPD
	LCSD		$_{ m Spike}$	Maulix		TOCC.		ILL D
	Result Un		Amount	Result	Rec.	Limit	RPD	Limit
			•				RPD 5	
TRPHC	Result Un 236 mg/	Kg 1	Amount 250	Result <1.06	94	Limit 75.5 - 136		Limi
TRPHC Percent recovery is based on the	$\begin{array}{cc} {\rm Result} & {\rm Un} \\ \hline 236 & {\rm mg/} \\ {\rm spike \ result.} \ {\rm RP} \end{array}$	Kg 1	Amount 250	Result <1.06	94	Limit 75.5 - 136		Limi
TRPHC Percent recovery is based on the Laboratory Control Spike (L	Result Un 236 mg/ spike result. RP CS-1)	Kg 1	Amount 250	Result <1.06 e and spike	94	Limit 75.5 - 136 e result	5	Limit 20
TRPHC Percent recovery is based on the Laboratory Control Spike (L QC Batch 51649	$\begin{array}{c c} \text{Result} & \text{Un} \\ \hline 236 & \text{mg/} \\ \\ \text{spike result. RP} \\ \\ \text{CS-1)} \\ \\ \text{Date} \\ \end{array}$	Kg 1 D is based o	Amount 250 n the spike	Result <1.06	94	Limit 75.5 - 136 e result Ana		Limit 20
v	$\begin{array}{c c} \text{Result} & \text{Un} \\ \hline 236 & \text{mg/} \\ \\ \text{spike result. RP} \\ \\ \text{CS-1)} \\ \\ \text{Date} \\ \end{array}$	Kg 1 D is based o Analyzed:	Amount 250 n the spike 2008-08-	Result <1.06	94	Limit 75.5 - 136 e result Ana Pre	alyzed B	Limit 20 y. KV
TRPHC Percent recovery is based on the Laboratory Control Spike (L QC Batch 51649	$\begin{array}{c c} \text{Result} & \text{Un} \\ \hline 236 & \text{mg/} \\ \\ \text{spike result. RP} \\ \\ \text{CS-1)} \\ \\ \text{Date} \\ \text{QC F} \\ \end{array}$	Kg 1 D is based o Analyzed:	Amount 250 n the spike 2008-08-08-2008-08-2008-08-2008-08-08-08-08-08-08-08-08-08-08-08-08-	Result <1.06 e and spike	94 duplicat	Limit 75.5 - 136 e result Ana Pre	alyzed B	Limit 20 y. KV y. KV

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

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

Units

Dil.

1

Spike

Amount

0 00500

Matrix

Result

< 0.0000336

LCSD

Result

0.00499

Param

SPLP Mercury

RPD

Limit

20

RPD

5

Rec

Limit

80 - 120

Rec.

100

Report Date August 27, 2008 MEWBOU027PIT				der. 80819 6 Fed. #						7 of 37 ty, NM
Laboratory Control Spike (Lo	CS-1)									
QC Batch 51658 Prep Batch 44269		ate An C Prep	alyzed paration	2008-08 2008-08				alyzed pared		
Param	LCS Result	t1	Units mg/L	Dıl 1	Spike Amount 0 250	Matr Resu	ılt R	ec. 92]	Rec Limit 5 - 115
Percent recovery is based on the s									1	
Param SPLP Cadmium	LCSD Result 0.236 r	Units mg/L	Dıl.	Spike Amount 0.250	Matrix Result <0.00140	Rec. 94	Rec. Limit 85 - 115	RP	<u> </u>	RPD Limit 20
Percent recovery is based on the s	spike result. l	RPD is	s based o	n the spil	e and spike	duplicate	e result			
Laboratory Control Spike (LC	CS-1)									
QC Batch 51658 Prep Batch. 44269		ate An C Prep	alyzed paration:	2008-08 2008-08				llyzed pared		RR KV
	LCS				Spike	Matr				Rec.
Param CDI D Load	Result		Units	Dil.	Amount	Resu	ılt R	ec]	Lımit
SPLP Lead	Result 0.463	r	mg/L	1	Amount 0.500	Resu	$\frac{\text{dt}}{320}$ 8	ec 93]	
	Result 0.463 pike result. I	r	mg/L	1 n the spik	Amount 0.500 te and spike o	Resu	e result.]	Limit 5 - 115
SPLP Lead Percent recovery is based on the s	Result 0.463 pike result. I LCSD	RPD is	mg/L s based o	1 n the spik Spike	Amount 0.500 te and spike of Matrix	Resu <0.00 duplicate	$\frac{\text{dt}}{320}$ $\frac{\text{R}}{9}$ $\frac{\text{R}}{9}$ result.	93	85 85	Limit 5 - 115 RPD
SPLP Lead	Result 0.463 pike result. I LCSD Result	RPD is	mg/L s based o	1 n the spik	Amount 0.500 te and spike o	Resu	e result. Rec. Limit		1 85 D	Limit 5 - 115
SPLP Lead Percent recovery is based on the s Param SPLP Lead	Result 0.463	RPD is Units mg/L	mg/L s based o Dıl. 1	1 n the spik Spike Amount 0 500	Amount 0.500 te and spike of Matrix Result <0.00320	Resu <0.00 duplicate Rec. 96	e result. Rec. Limit 85 - 115	93 RP	1 85 D	Limit 5 - 115 RPD Limit
SPLP Lead Percent recovery is based on the s Param	Result 0.463 pike result. I LCSD Result 0.478 pike result. I	RPD is Units mg/L	mg/L s based o Dıl. 1	1 n the spik Spike Amount 0 500	Amount 0.500 te and spike of Matrix Result <0.00320	Resu <0.00 duplicate Rec. 96	e result. Rec. Limit 85 - 115	93 RP	1 85 D	Limit 5 - 115 RPD Limit
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s	Result 0.463 pike result. I LCSD Result 0.478 pike result. I	RPD is Units mg/L	mg/L s based o Dil. 1 s based o	1 n the spik Spike Amount 0 500	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of	Resu <0.00 duplicate Rec. 96	alt R 320 S e result. Rec. Limit 85 - 115	93 RP	1 85 PD	Limit 5 - 115 RPD Limit
Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LC)	Result 0.463 pike result. I LCSD Result 0 0.478 r pike result. I	RPD is Units mg/L RPD is	mg/L s based o Dil. 1 s based o	1 n the spike Spike Amount 0 500 n the spik	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of	Resu <0.00 duplicate Rec. 96	alt R 320 G e result. Rec. Limit 85 - 115 e result	RP 3	85 PD	Limit 5 - 115 RPD Limit 20
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LC QC Batch 51658	Result 0.463 pike result. I LCSD Result 1 0.478 r pike result. I CS-1) Da Q0	RPD is Units mg/L RPD is ate Ana	mg/L s based o Dil. 1 s based o alyzed	1 n the spike Spike Amount 0 500 n the spik	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of	Resu <0.00 duplicate Rec. 96 duplicate	alt R 320 S e result. Rec. Limit 85 - 115 e result Ana Prej	RP 3	1 85 PD By By.	RPD Limit 20
Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LC QC Batch 51658 Prep Batch 44269	Result 0.463 pike result. I LCSD Result 0 0.478 r pike result. I CS-1) Da QC	RPD is Units mg/L RPD is ate Ana	mg/L s based o Dil. 1 s based o alyzed paration.	1 n the spike Spike Amount 0 500 n the spik 2008-08-	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of -21 -21 Spike	Resu <0.00 duplicate Rec. 96 duplicate Matr	alt R 320 S e result. Rec. Limit 85 - 115 e result Ana Prej	RP 3 llyzed pared	By By.	RPD Limit 20 RR KV Rec.
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LO QC Batch 51658 Prep Batch 44269 Param	Result 0.463 pike result. I LCSD Result 0 0.478 r pike result. I CS-1) Da QC LCS Result	RPD is Units mg/L RPD is ate Ana C Prep	mg/L s based o Dil. 1 s based o alyzed paration.	1 n the spik Spike Amount 0 500 n the spik 2008-08-	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of -21 -21 Spike Amount	Resu <0.00 duplicate Rec. 96 duplicate Mata	alt R 320 G e result. Rec. Limit 85 - 115 e result Ana Prep	RP 3 llyzed pared	By By.	RPD Limit 20 RR KV Rec. Limit
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LC QC Batch 51658 Prep Batch 44269 Param SPLP Selenium	Result 0.463 pike result. I LCSD Result 0.478 r pike result. I CS-1) Da QC LCS Result 0.434	RPD is Units mg/L RPD is ate Ana C Prep	mg/L s based o Dil. 1 s based o alyzed baration. Units mg/L	1 n the spik Spike Amount 0 500 n the spik 2008-08- 2008-08-	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of -21 -21 Spike Amount 0.500	Resu <0.00 duplicate Rec. 96 duplicate Matri Resu <0.00	Ana Prep	RP 3 llyzed pared	By By.	RPD Limit 20 RR KV Rec.
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LO QC Batch 51658 Prep Batch 44269 Param	Result 0.463 pike result. I LCSD Result 0 0.478 r pike result. I CS-1) Da QC LCS Result 0 434 pike result. I	RPD is Units mg/L RPD is ate Ana C Prep	mg/L s based o Dil. 1 s based o alyzed baration. Units mg/L	In the spike Spike Amount 0 500 In the spike 2008-08-2008-08-1 In the spike	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of -21 -21 Spike Amount 0.500 te and spike of	Resu <0.00 duplicate Rec. 96 duplicate Matri Resu <0.00	Ana Preprint Richard Recult Re	RP 3 llyzed pared	By By.	RPD Limit 20 RR KV Rec. Limit 5 - 115
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LC QC Batch 51658 Prep Batch 44269 Param SPLP Selenium Percent recovery is based on the s	Result 0.463 pike result. I LCSD Result 0 0.478 r pike result. I CS-1) Da QC LCS Result 0 434 pike result. I LCSD	RPD is Units mg/L RPD is ate Ana C Prep	mg/L s based o Dil. 1 s based o alyzed baration. Units mg/L s based o	1 n the spik Spike Amount 0 500 n the spik 2008-08- 2008-08- 1 n the spik Spike	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of -21 -21 Spike Amount 0.500 te and spike of Matrix	Resu <0.00 duplicate Rec. 96 duplicate Matri Resu <0.00 duplicate	Ana Preprint Recult Rec	RP 3 llyzed pared	By By.	RPD Limit 20 RRR KV Rec. Limit 5 - 115
Param SPLP Lead Percent recovery is based on the s Param SPLP Lead Percent recovery is based on the s Laboratory Control Spike (LC QC Batch 51658 Prep Batch 44269 Param SPLP Selenium	Result 0.463 pike result. I LCSD Result 0.478 r pike result. I CS-1) Da Q0 LCS Result 0 434 pike result. I LCSD Result	RPD is Units mg/L RPD is ate Ana C Prep	mg/L s based o Dil. 1 s based o alyzed baration. Units mg/L	In the spike Spike Amount 0 500 In the spike 2008-08-2008-08-1 In the spike	Amount 0.500 te and spike of Matrix Result <0.00320 te and spike of -21 -21 Spike Amount 0.500 te and spike of	Resu <0.00 duplicate Rec. 96 duplicate Matri Resu <0.00	Ana Preprint Richard Recult Re	RP 3 llyzed pared	By By.	RPD Limit 20 RR KV Rec. Limit 5 - 115

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

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Laboratory Control Spike (L	CS-1)								
QC Batch: 51658 Prep Batch 44269		Analyzed: Preparation:	2008-08 2008-08				ialyzed epared		RR KV
n	LCS	**	.	Spike	Matr				Rec
Param SPLP Arsenic	Result 0 458	Units	Dıl. 1	Amount 0.500	Resu < 0.004		$\frac{\mathrm{Rec}}{92}$		imit - 115
		mg/L					92	60) - 113
Percent recovery is based on the	spike result. RP	'D is based o	on the spil	ke and spike	duplicate	e result.			
	LCSD		Spike	Matrix		Rec			RPD
Param	Result Un		Amount	Result	Rec	Limit	RP	D	Limit
SPLP Arsenic	0.476 mg	/L 1	0.500	< 0.00430	95	85 - 115	5 4	!	20
Percent recovery is based on the	spike result. RP	D is based of	on the spil	ke and spike	duplicate	e result			
QC Batch. 51658 Prep Batch 44269		Analyzed. Preparation	2008-08 2008-08				alyzed epared	_	RR KV
	LCS			Spike	Matr				Rec
Param	Result	Units	Dıl	Amount	Resu		Rec		imit
SPLP Barium	0.933	mg/L	1	1.00	< 0.00		93	85	- 115
Percent recovery is based on the	spike result. RP	D is based of	on the spil	ke and spike	duplicate	e result.			
	LCSD		Spike	Matrix		${ m Rec.}$			RPD
Param	Result Un	ıts Dıl.	Amount	Result	Rec.	Limit	RP	D	Limit
SPLP Barium	0.965 mg	/L 1	1.00	< 0.00170	96	85 - 115	3		20
Percent recovery is based on the	spike result. RP	D is based of	on the spil	ke and spike	duplicate	e result.			
	CS-1)								
Laboratory Control Spike (L			2008-08	 21		An	alyzed	Bv	RR
,	Date	Analyzed	ZUU0-U0					-	
QC Batch: 51658		Analyzed Preparation:				Pre	epared	Ву	KV
Prep Batch 44269	QC I LCS	reparation:	2008-08	-21 Spike	Matri	ıx	į	1	Rec
QC Batch: 51658	QC I			-21	Matri Resul	ıx lt	Rec 95] I	

Spike

Amount

0 100

Dıl.

Units

mg/L

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

Matrix

 ${\bf Result}$

< 0.000900

RPD

Limit

20

RPD

2

Rec.

Limit

85 - 115

 Rec

LCSD

 \mathbf{Result}

0.0970

Param

SPLP Chromium

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Laboratory Control Spike (LCS-1)

QC Batch. Prep Batch: 44269

51658

Date Analyzed QC Preparation:

2008-08-21 2008-08-21 Analyzed By. RR Prepared By. KV

	LCS			Spike	Matrix		Rec
Param	Result	Units	Dil.	Amount	Result	Rec	\mathbf{Limit}
SPLP Silver	0 119	$\mathrm{mg/L}$	1	0.125	< 0.00210	95	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	0 120	mg/L	1	0.125	< 0.00210	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. 51658 Prep Batch: 44269 Date Analyzed 2008-08-21 QC Preparation. 2008-08-21

Analyzed By. RR Prepared By: KV

		LCS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$
SPLP II	1	0.497	mg/L	1	0.500	< 0.0105	99	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 U	0 481	mg/L	1	0.500	< 0.0105	96	90 - 110	· 3	

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 Prep Batch: 44297

51663

Date Analyzed. QC Preparation: 2008-08-23

2008-08-25

Analyzed By DS Prepared By. DS

n	LCS	77. 1.	ъ.	Spike	Matrix	т.	Rec.
Param	Result	Units	Dıl	Amount	Result	Rec	Limit
Naphthalene	0 0378	${ m mg/L}$	1	0.0800	< 0 0000853	47	10 - 141
Acenaphthylene	0.0432	mg/L	1	00800	< 0 0000768	54	10 - 152
Acenaphthene	0.0413	mg/L	1	00800	< 0.000103	52	10 - 151
Dibenzofuran	$0\ 0421$	$\mathrm{mg/L}$	1	0.0800	< 0.000200	53	10 - 148
Fluorene	0.0455	mg/L	1	0.0800	< 0 0000861	57	10 - 172
Anthracene	0.0544	mg/L	1	0.0800	< 0.000170	68	196 - 172
Phenanthrene	0.0480	mg/L	1	0.0800	< 0.0000884	60	22 5 - 172
Fluoranthene	$0\ 0602$	mg/L	1	0.0800	< 0.0000969	75	17.3 - 187
Pyrene	0.0629	mg/L	1	0.0800	< 0.0000855	79	14 9 - 199

continued ..

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MEW BOODZ7111			Diadi	ey o reu.	#1		Edu	y Cot	ility, ivit
control spikes continued									
Control spines continued	•	LCS			Spike	Matrix			Rec.
Param		Result	Units	Dıl.	Amount	Result	Rec.		Limit
Benzo(a)anthracene		0.0632	mg/L	1	0.0800	< 0.0000703		119	94-185
Chrysene		0.0618	mg/L	1	0.0800	< 0.000113			8 4 - 188
Benzo(b)fluoranthene		0 0682	mg/L	1	0.0800	< 0.000134			10 - 193
Benzo(k)fluoranthene		0 0838	mg/L	1	0.0800	< 0 000227		1	7.8 - 196
Benzo(a)pyrene		0.0792	mg/L	1	0.0800	< 0 000200			24 - 205
Indeno(1,2,3-cd)pyrene		0.0839	mg/L	1	0.0800	< 0 000253			10 - 198
Dibenzo(a,h)anthracene		0.0800	mg/L	1	0.0800	< 0 000180		- 1	10 - 172
Benzo(g,h,i)perylene		0 0801	mg/L	1	0 0800	< 0.000158		1	10 - 186
Percent recovery is based of	n the spike r	esult. RPI	D is based	on the s	pike and spike	e duplicate i	result		
	LCS	SD		Spike	Matrix		Rec		RPD
Param	Rest			Amount	Result	Rec.	Limit	RPD	
Naphthalene	0.03	55 mg/I	, 1	0.0800	< 0.0000853	44	10 - 141	6	20
Acenaphthylene	0.04	14 mg/I	. 1	0.0800	< 0.0000768	52	10 - 152	4	20
Acenaphthene	0 03	92 mg/I	1	0.0800	< 0.000103	49	10 - 151	5	20
Dibenzofuran	0.03	98 mg/L	. 1	0 0800	< 0.000200	50	10 - 148	6	20
Fluorene	0.04	$22 ext{ mg/I}$. 1	0.0800	< 0.0000861	53	10 - 172	8	20
Anthracene	0 05	20 mg/I	. 1	0.0800	< 0 000170	65 19	9.6 - 172	4 5	20
Phenanthrene	0 04	58 mg/L	. 1	0.0800	< 0.0000884	57 2	25 - 172	5	20
Fluoranthene	0.05	80 mg/I	1	00800	< 0 0000969	72 1	7 3 - 187	4	20
Pyrene	0 05	98 mg/I	. 1	0.0800	< 0.0000855	75 1	4.9 - 199	5	20
Benzo(a)anthracene	0.05	99 mg/I	. 1	0.0800	< 0.0000703	75 1	94 - 185	4-5-5-5-3	20
Chrysene	0.05	٠,		0.0800	< 0.000113		8.4 - 188	5	20
Benzo(b)fluoranthene	0.06	63 mg/L	. 1	0.0800	< 0.000134	83	10 - 193	3	20
Benzo(k)fluoranthene	0.07	٠,	. 1	0 0800	< 0 000227		7.8 - 196	5	20
Benzo(a)pyrene	0 07	٠,		00800	< 0 000200		2.4 - 205	4	20
Indeno(1,2,3-cd)pyrene	0 08	0,		0.0800	< 0.000253		10 - 198	4	20
$D_1benzo(a,h)anthracene$	0.07			0.0800	< 0.000180	96	10 - 172	4	20
Benzo(g,h,ı)perylene	0.07	54 mg/L	. 1	0 0800	< 0.000158	94	10 - 186	6	20
Percent recovery is based o	n the spike r	esult. RPI	O is based	on the s	pıke and spike	duplicate i	result		
	LCS	LCSD			Spike	LCS	LCSD		Rec.
Surrogate	Result	Result	Units	Dıl.	Amount	Rec	Rec		\mathbf{Limit}
2-Fluorobiphenyl	0 0377	0 0358	mg/L	1	0.0800	47	45		10 - 165
Nitrobenzene-d5	0.0429	0.0408	m mg/L	1	0 0800	54	51		10 - 157
Terphenyl-d14	0.0741	0.0704	mg/L	1	0 0800	93	88		10 - 220
Laboratory Control Spi	ke (LCS-1)								
QC Batch 51703		Date	Analyzed	2008	-08-20		Analy	zed D	By: JG
Prep Batch 44330			reparatio		-08-21		Prepa		
110p Dation 11000		QU I	1 oparatio	2000	00 #I		ттера	LCU D	.,. J G
		LCS			Spike	Matrix	ζ.		Rec.
Param		Result	Units	Dıl	Amount	Result			Limit
1,1-Dichloroethene		48.9	$\mu \mathrm{g/L}$	1	50.0	< 0.136			70 - 130
1,1 Diemorocenene			MO/ 12		30.0	\0.10(, 30		.0 100

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WIE W BO COZITIT			Dradie	y o red. 7	/ 1				Lady C	Journey	, 14141
control spikes continued										Ì	
control opines communaci	LCS	1			S	Spike	Matr	1X		B	Rec.
Param	Resul		Units	Dıl		nount	Resu	lt	Rec.		ımıt
Benzene	49 4		$\mu g/L$	1		50.0	< 0.1		99		- 130
Trichloroethene (TCE)	63.6		$\mu \mathrm{g}/\mathrm{L}$	1		50 0	< 0.1		127		- 130
Toluene	50.0		$\mu \mathrm{g/L}$	1		50.0	< 0.06		100		- 130
Chlorobenzene	50.2		$\mu \mathrm{g}/\mathrm{L}$	1	ļ	50.0	< 0.05	40	100	70	- 130
Percent recovery is based on the	spike result	RPD 1		on the spi	ke an	ıd spike d	uplicate	result.			-
	LCSD			Spike	λ	/latrix		Rec.		,	RPD
Param		Units	Dıl.	Amount		Result	Rec	Limit	RP	1	Limit
1,1-Dichloroethene		$\frac{\mu g/L}{\mu}$	1	50.0		<0.136	97	70 - 13			3111110
Benzene		$\mu \mathrm{g}/\mathrm{L}$	1	50.0		<0.146	98	70 - 13			
Trichloroethene (TCE)		$\mu \mathrm{g}/\mathrm{L}$	1	50.0		(0.117	128	70 - 13			
Toluene		$\mu g/L$	1	50.0		0 0600	99	70 - 13			
Chlorobenzene		$\mu \mathrm{g}/\mathrm{L}$	1	50.0		0.0540	100	70 - 13			
Percent recovery is based on the											
Terem recovery is based on the				on the spi	ne an					_	
	LCS		CSD			Spik			LCSD		tec.
Surrogate	Resul		lesult	Units	Dıl.	Amou		Rec	Rec.		mit
Dibromofluoromethane	46.0		46.4	$\mu { m g}/{ m L}$	1	50.0		92	93		- 130
Toluene-d8	49 6		49 8	$\mu { m g}/{ m L}$	1	50.0		99	100		- 130
4-Bromofluorobenzene (4-BFB)	50.3		49.8	$\mu { m g/L}$	1	50 0)]	101	100	70 -	- 130
Laboratory Control Spike (L QC Batch: 51705 Prep Batch. 44332	D		nalyzed: paration	2008-08 : 2008-08					Analyze Prepare		SS SS
110p 1300011. 11002	**	,0110	paramon	. 2000 0	J 21			•	repared	. Бу.	55
	LCS	3				Spike	Ma	atrıx			Rec.
Param	Resu		Units	Dıl.		Amount		esult	Rec.		imit
SPLP Cyanide	11.9		mg/Kg			12.0		1.94	99		
Percent recovery is based on the					ke an						
v	LCSD			_		•	•			1	ODD
Danam	Result	T I : 4.	a D:1	Spik		Matrix	Das	Rec.			RPD
Param Cyanida	11 8	Units		. Amou		Result	Rec 98	Lımi -		ו ע	Limit
SPLP Cyanide		mg/K				<1 94			1		
Percent recovery is based on the	spike result	KPD 1	s based (on the spii	ke an	а ѕріке а	uplicate	result.			
Laboratory Control Spike (Le	CS-1)										
QC Batch: 51714	<i>D</i> .	ato As	alyzed:	2008-08	99			А	nalyzed	D	RD
Prep Batch. 44341			aryzea: paration.						naryzed repared		RD
rich namm 44941	Q,	O 1 161	ou ativil.	2000-00	-22			Г	repared	ъy.	IUD
	LCS				C	nulsa	Mar			ת	
Param	Resul	+	Units	Da		pike	Matri		Pos		ec.
Nitrata N	nesur 2.56		mg/I	Dil.		nount	Resu		Rec		mit

2.56

mg/L

1

2 50

< 0.0700

102

90 - 110

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Percent recovery is based on the spike result RPD is	s based on the spike and spike duplicate result.
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	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	$D_{1}l$	Amount	Result	Rec.	$_{ m Limit}$	RPD	Limit
Nitrate-N	2.54	mg/L	1	2.50	< 0.0700	102	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 51714 Prep Batch 44341 Date Analyzed: 2008-08-22 QC Preparation. 2008-08-22 Analyzed By RD Prepared By. RD

	LCS			$_{ m Spike}$	Matrix		Rec.
Param	Result	Units	Dil	${f Amount}$	Result	Rec	$_{ m Limit}$
SPLP Chloride	12.0	m mg/L	1	12.5	< 0.137	96	90 - 110

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

	LCSD			$_{ m Spike}$	Matrix		Rec		RPD
Param	Result	Units	Dıl	${f Amount}$	Result	Rec	Limit	RPD	L_{imit}
SPLP Chloride	12.0	mg/L	1	12.5	< 0 137	96	90 - 110	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: 51714 Prep Batch 44341 Date Analyzed. 2008-08-22 QC Preparation: 2008-08-22 Analyzed By: RD Prepared By. RD

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil	Amount	Result	Rec.	\mathbf{Limit}
SPLP Fluoride	2 25	mg/L	1	2.50	< 0 0889	90	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	Lımıt
SPLP Fluoride	2.28	mg/L	1	2 50	< 0.0889	91	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: 51822 Prep Batch. 44447 Date Analyzed. 2008-08-26 QC Preparation: 2008-08-26

Analyzed By TG Prepared By TG

	LCS			$_{ m Spike}$	Matrix		${ m Rec.}$
Param	Result	Units	D_1 l.	Amount	Result	Rec.	$_{ m Limit}$
Aroclor 1260 (PCB-1260)	0.00155	mg/L	1	0.00200	< 0.0000331	78	10 - 128

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

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Arcelor 1260 (PCB-1260)										
Arcelor 1260 (PCB-1260)		LCSD			Spike	Matrix		Rec.		RPD
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. Spike LCS Result Result Units Dil. Amount Result Rec. Limit Rec. Rec. Rec. Limit Rec.	Param	Result	Units	Dıl					RPD	
CS	Aroclor 1260 (PCB-1260)	0.00156	$_{ m mg/L}$	1	0.00200	< 0.000033	1 78	10 - 128	1	20
National	Percent recovery is based o	on the spike resul	t. RPD	is based o	on the spik	e and spike	duplicate	e result		
National		T CC	T CCD			C:1-	_ т.	aa Taa	D	Dan
Deca chlorobiphenyl	Currente			Un	ıta Dıl	_				
Matrix Spike (MS-1) Spiked Sample: 170511 Spiked Sample: 170511 QC Batch. 51597 Date Analyzed. QC Preparation: 2008-08-19 Spike Matrix Rec. Limit Result Chloride 10000 mg/Kg 500 6250 4018 87 96 68.7 - 119 Percent recovery is based on the spike result. RPD is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Limit Chloride 9850 mg/Kg 500 6250 4018.87 93 68.7 - 119 2 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Limit Chloride 9850 mg/Kg 500 6250 4018.87 93 68.7 - 119 2 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Limit Chloride 9850 mg/Kg 500 6250 4018.87 93 68.7 - 119 2 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Limit RPD Limit Chloride Result Units Dil Amount Result Rec. Limit RPD Chloride Result Units Dil Amount Result Rec. Limit RPD Chloride Result Rec. RPD Chloride Result Rec. RPD Chloride Result Rec. RPD Chloride Result RPD Chloride Result Rec. RPD Chloride Result Rec. RPD Chloride Result RPD Chloride Result RPD Chloride Result Rec. RPD Chloride Result RPD Chloride Result RPD Chloride Result RPD Chloride Result Rec. RPD Chloride Rec. RPD Chloride Result Rec. RPD Chloride										
CR Since	Deca chlorootphenyr	0.000324	0.00032	<u> </u>	/L 1	0 0000		04		10 - 120
Prepared By Result Matrix Spike (MS-1)	Spiked Sample:	170511								
Prepared By Result OC Batch. 51597		Date A	nalvzed.	2008-08-	-20		Analy	zed By	RD	
Param				-						
Result New N	•		·	•				•		
Result New N		M	S			Spike	Matri	ix		Rec.
Chloride	Param			Units	$\mathbf{D}_{1}\mathbf{l}$					
MSD Result Units Dil Amount Result Rec. Limit RPD Limit Chloride 9850 mg/Kg 500 6250 4018.87 93 68.7 - 119 2 20 20 20 20 20 20 20	Chloride	100	000	mg/Kg	500	6250	4018 8	87 96		
Param Result Onloride Units Onloride Amount Onloride Result Onloride	Percent recovery is based o	n the spike resul	t. RPD	ıs based o	on the spik	e and spike	duplicate	e result		
Param Result Onloride Units Onloride Amount Onloride Result Onloride		MSD			Spike	Matrix		Rec.		RPD
Chloride	Param		Units	$D_{1}l$	-		Rec.		RPD	
Matrix Spike (MS-1) Spike (MS-1) Spike (MS-1) Spike (MS-1) Spike (MS-1) Matrix (MS-1) Spike (MS-1) Matrix (MS-1) Analyzed By. CM QC Batch. 51600 Date Analyzed (QC Preparation) 2008-08-20 Matrix (Matrix) Rec. (MS-1) Limit (MS) Matrix (MS-1) Spike (MS-1) Matrix (MS-1) Result (MS-1) Units (MS) Dil (MS-1) Amount (MS) Result (MS-1) Rec. (MS-1) RPD (MS-1) Explosion (MS-1) Explosion (MS-1) RPD (MS-1) Explosion (MS-1) Analyzed (MS-1) <th< td=""><td>Chloride</td><td>9850</td><td>mg/Kg</td><td>g 500</td><td>6250</td><td>4018.87</td><td></td><td>68.7 - 119</td><td></td><td>20</td></th<>	Chloride	9850	mg/Kg	g 500	6250	4018.87		68.7 - 119		20
Matrix Spike (MS-1) Spike (MS-1) Spike (MS-1) Spike (MS-1) Spike (MS-1) Matrix (MS-1) Spike (MS-1) Matrix (MS-1) Analyzed By. CM QC Batch. 51600 Date Analyzed (QC Preparation) 2008-08-20 Matrix (Matrix) Rec. (MS-1) Limit (MS) Matrix (MS-1) Spike (MS-1) Matrix (MS-1) Result (MS-1) Units (MS) Dil (MS-1) Amount (MS) Result (MS-1) Rec. (MS-1) RPD (MS-1) Explosion (MS-1) Explosion (MS-1) RPD (MS-1) Explosion (MS-1) Analyzed (MS-1) <th< td=""><td>Percent recovery is based o</td><td>n the spike resul</td><td>t. RPD</td><td>ıs based o</td><td>on the spik</td><td>e and spike</td><td>duplicate</td><td>e result.</td><td></td><td></td></th<>	Percent recovery is based o	n the spike resul	t. RPD	ıs based o	on the spik	e and spike	duplicate	e result.		
QC Batch. 51600 Date Analyzed QC Preparation 2008-08-20 2008-08-20 Analyzed By. CM Prep Batch Added By. CM Prep Batch By.	v	•			•	•	•			
Prep Batch	Matrix Spike (MS-1)	Spiked Sample:	171024							
Prep Batch	QC Batch. 51600		Date A	nalvzed	2008-08-	-20		Analy	zed Bv	. CM
MS					2008-08-	-20				
Param Result TRPHC Units May Image: Major Maj			•							
Param Result TRPHC Units May Image: Major Maj		λ.	1 S			Snike	Mat	rıv		Rec
TRPHC 483 mg/Kg 1 250 <1.06 193 10 - 354 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 TRPHC 480 mg/Kg 1 250 <1.06 192 10 - 354 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: 171025 QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV	Param			Units	Dil	_				
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MSD	TRPHC									
MSD Result Units Dil Amount Result Rec Limit RPD Limit TRPHC 480 mg/Kg 1 250 <1.06 192 10 - 354 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: 171025 QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV	Percent recovery is based o				on the spik	e and spike				
Param Result Units Dil Amount Result Rec Limit RPD Limit TRPHC 480 mg/Kg 1 250 <1.06 192 10 - 354 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: 171025 QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV	v	_					-			DDD
TRPHC 480 mg/Kg 1 250 <1.06 192 10 - 354 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: 171025 QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV	Param		Unite	, Dd			Poo		DDD	
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. Matrix Spike (MS-1) Spiked Sample: 171025 QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV										
Matrix Spike (MS-1) Spiked Sample: 171025 QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV									1	20
QC Batch. 51649 Date Analyzed: 2008-08-21 Analyzed By KV	referritecovery is based o	in the spike resul	ILI D	is Daseu (on the spin	e and spike	dupneau	e resuit.		
· · · · · · · · · · · · · · · · · · ·	Matrix Spike (MS-1)	Spiked Sample:	171025							
· · · · · · · · · · · · · · · · · · ·	QC Batch. 51649		Date A	nalyzed:	2008-08-	-21		Analy	zed By	KV
				•						

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	MS			Spike	Matrix		Re	ec.
Param	Result	Units	Dıl.	Amount	Result	Rec.	Lir	mıt
SPLP Mercury	0.00497	m mg/L	1	0 00500	< 0 00003	336 99	. 80 -	120
Percent recovery is based of	on the spike result. RP	D is based	on the spi	ke and spike	duplicate	result		-
	MSD		Spike	Matrix		Rec.	R	RPD
Param	Result Uni	ts Dil.	Amount	Result	Rec		1	imit
SPLP Mercury	0 00495 mg		0.00500	< 0.000033		80 - 120		20
Percent recovery is based of	on the spike result RP	D is based	on the spi	ke and spike	duplicate	result.		
Matrix Spike (MS-1)	Spiked Sample 17102	25						
QC Batch: 51658	Date	Analyzed	2008-08	8-21		Analyze	d By	RR
Prep Batch. 44269		Preparation	n: 2008-08	8-21		Prepare		KV
-		_				_		
	MS			Spike	Matrix	ζ	Re	ec
Param	Result	Units	Dıl.	$\overline{\mathrm{Amount}}$	Result	Rec		mit
SPLP Cadmium	0 248	mg/L	1	0.250	< 0.0014	40 99	75 -	125
Percent recovery is based	on the spike result. RP	D is based	on the spi	ke and spike	duplicate	result.		
	MSD		Spike	Matrix		Rec.	R	RPD
Param	Result Uni	ts Dıl.	Amount	Result	Rec.			amit
SPLP Cadmium	0.248 mg/		0.250	< 0.00140		75 - 125		20
Percent recovery is based of					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1	
credit recovery to based t	on the spine result. Ter	D In Dance	on one opi	ne una spine	aupneare	resurv		
Matrix Spike (MS-1)	Spiked Sample: 17102	5						
QC Batch. 51658	Date	Analyzed.	2008-08	8-21		Analyze	d Bv:	RR
Prep Batch: 44269		reparation				Prepare	1	KV
•	·	•				•		
	MS			Spike	Matrix	ζ.	Re	ec.
Param	Result	Units	Dil.	Amount	Result			mıt
SPLP Lead	0.456	mg/L	1	0.500	< 0.0032		75 -	
Percent recovery is based of	on the spike result RP		on the spi	ke and spike	duplicate	result.		
	MSD		Spike	Matrix		Rec.	R	RPD
Param	Result Uni	ts Dıl.	Amount	Result	Rec			ımıt
SPLP Lead	0.448 mg/	$^{\prime}\mathrm{L}$ 1	0 500	< 0.00320	90	75 - 125	2	20
Percent recovery is based of	on the spike result. RP	D is based	on the spi	ke and spike	duplicate	result.		
Matrix Spike (MS-1)	Spiked Sample. 17102	5						
, ,	Data	Analyzad	ഉറവര വ	2 91		A = 01	d D.	DБ
QC Batch: 51658 Prep Batch. 44269		Analyzed Preparation	2008-08 n 2008-08			Analyze Prepare		RR KV
. rep Daton. 44209	QC I	reharano	u 2000-0	J-41		r repare	ц ъ у. 1	TZ A

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	MS				Spike	Matr				Rec.
Param	Resu		Units	Dıl	Amount	Resu				imit
SPLP Selenium	0 46		mg/L	1	0 500	< 0 01		2	70	- 125
Percent recovery is based	on the spike result	RPD i	s based o	on the spik	ke and spike	duplicate	result.			
	MSD			Spike	Matrix		Rec.			RPD
Param	Result	Units	Dıl.	Amount	Result	Rec.	Limit	RP	D	Limit
SPLP Selenium	0.421	mg/L	1	0.500	< 0.0131	84	75 - 125	9		20
Percent recovery is based	on the spike result	RPD 1	s based o	n the spik	ke and spike	duplicate	result			
·										
Matrix Spike (MS-1)	Spiked Sample 17	71025								
QC Batch: 51658	D	ate Ar	alyzed:	2008-08-	-21		Anal	lyzed	By.	RR
Prep Batch. 44269	Ç	C Prep	paration.	2008-08	-21		Prep	ared	By:	KV
								1		
	MS				Spike	Matri	v		1	Rec.
Param	Resul	t	Units	Dıl.	Amount	Resul		ec.		imit
SPLP Arsenic	0 513		mg/L	1	0 500	< 0.004				- 125
Percent recovery is based	on the spike result.	RPD i	s based o	n the spik	e and spike	duplicate	result	Ì		
' '	-			-		auptrons				
	MSD			Spike	Matrix		Rec		_	RPD
Param	····	Units	Dil.	Amount	Result	Rec.	Limit	$RP_{ }$	D	Limit
SPLP Arsenic		mg/L	1	0.500	< 0.00430	102	75 - 125	<u> </u>		20
Percent recovery is based	on the spike result.	RPD i	s based o	n the spik	te and spike	duplicate	result.			
Matrix Spike (MS-1)	Spiked Sample: 17	71025						l		
QC Batch: 51658	D	ate An	alyzed	2008-08-	-21		Anal	yzed	Bv	RR
Prep Batch. 44269			paration:	2008-08-				ared :		KV
ī	•	•								
	3.60				0 11	3.5				_
Param	MS Resu		Units	Dil.	$egin{array}{c} ext{Spike} \ ext{Amount} \end{array}$	Matr Resu				Rec amit
SPLP Barium	1 09		mg/L	1	1 00	0.12				- 125
							· · · · · · · · · · · · · · · · · · ·	<u>' </u>		- 120
Percent recovery is based	on the spike result	KPD 1	s based o	n tne spik	e and spike	auplicate	result.			
	MSD			Spike	Matrix		Rec.			RPD
Param		Units		Amount		Rec.	Limit	RPI		Limit
SPLP Barium	1 09	mg/L	1	1.00	0.121	97	75 - 125	Q		20
Percent recovery is based	on the spike result	RPD is	s based o	n the spik	e and spike	duplicate	result			
Matrix Spike (MS-1)	Spiked Sample. 17	1025								
QC Batch: 51658	D	ate An	alyzed·	2008-08-	-21		Anal	yzed	By.	RR
Prep Batch: 44269	Q	C Prep	paration.	2008-08-				ared :		KV
								1		

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	MS			Spike	Matrix		Rec
Param	Result	Units	Dıl	Amount	Result	Rec	Limit
SPLP Chromium	0.102	$_{ m mg/L}$	1	0.100	< 0.000900	102	75 - 125
Percent recovery is based	on the spike result. F	RPD is based	on the spi	ke and spike	duplicate res	ult.	
	MSD		Spike	Matrix	D	tec	RPD
Param		Inits Dil.	Amount	Result		iec imit RF	
SPLP Chromium		$\frac{1}{\log/L}$ 1	0.100	<0.000900		- 125	
Percent recovery is based	on the spike result. I	trd is based	on the spi	ke and spike	auplicate resi	шт	
Matrix Spike (MS-1)	Spiked Sample. 171	1025					
QC Batch 51658	Da	te Analyzed:	2008-08	3-21		Analyzed	By: RR
Prep Batch 44269		C Preparation		3-21		Prepared	
	MS			Cmileo	Matrix		Dag
Param	Result	Units	Dil	$egin{array}{c} { m Spike} \\ { m Amount} \end{array}$	Result	Rec.	Rec. Limit
SPLP Silver	0.123	mg/L	1	0 125	< 0.00210	98	75 - 125
Percent recovery is based							10 120
rercent recovery is based	on the spike result of	TD is based	on the spi	ке апо ѕріке	duplicate resi	III.	
	MSD		Spike	Matrix	R	ec.	RPD
Param	Result U	Jnits Dil.	Amount	Result	Rec. L1	mit RF	D Limit
SPLP Silver	0 122 n	$_{ m ng/L}$ 1	0.125	< 0.00210	98 75	- 125 1	20
Percent recovery is based	on the spike result. F	RPD is based	on the spi	ke and spike	duplicate resi	ult.	
Matrix Spike (MS-1)	Spiked Sample. 171	1025				·	
QC Batch. 51658	Do	te Analyzed:	2008-08	2 91		Analyzed	By: RR
Prep Batch: 44269		de Analyzed. O Preparation				Prepared	•
1 Tep Daten. 44203	W.	o i reparación	11. 2000-00)-21		Trepared	By. Rv
	MS			Spike	Matrix		Rec .
Param	Result		Dıl	Amount	Result	Rec	Limit
SPLP U	0.535	mg/L	1	0.500	< 0 0105	107	90 - 110
Percent recovery is based	on the spike result. F	RPD is based	on the spi	ke and spike	duplicate resi	ılt.	
	MSD		Spike	Matrix	R	ec.	RPD
Param	Result U	Units Dil	Amount	Result	Rec. Li	mıt RP	D Limit
SPLP U	0.537 n	ng/L 1	0 500	< 0 0105	107 90 -	110 0	
Percent recovery is based	on the spike result I	RPD is based	on the spi	ke and spike	duplicate resi	ult.	
·	-		•	•	-		
Matrix Spike (MS-1)	Spiked Sample. 171	.025					
OC Databa F1002	т.		. 9000 00	o or		A 1	l D DC
QC Batch: 51663		ate Analyzed				Analyze	
Prep Batch: 44297	Qt	C Preparation	n: 2008-08	5-23		Prepared	l By: DS

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	MS			Spike	Matrix		Rec.
Param	Result	Units	$\mathbf{D}1\mathbf{l}$	Amount	Result	Rec.	Limit
Naphthalene	0.0316	mg/L	1	0.0800	< 0.0000853	40	16.3 - 89.3
Acenaphthylene	0.0445	mg/L	1	0.0800	< 0.0000768	56	13 9 - 103
Acenaphthene	0.0432	mg/L	1	0.0800	< 0.000103	54	12.4 - 101
Dibenzofuran	0.0456	mg/L	1	0.0800	< 0 000200	57	10 - 106
Fluorene	0.0511	mg/L	1	0.0800	< 0 0000861	64	10 - 110
Anthracene	0.0565	mg/L	1	0.0800	< 0.000170	71	18.8 - 121
Phenanthrene	0.0549	mg/L	1	0.0800	< 0.0000884	69	20.6 - 118
Fluoranthene	0.0616	mg/L	1	0.0800	< 0.0000969	77	19.1 - 133
Pyrene	0.0622	mg/L	1	0.0800	< 0 0000855	78	10 - 192
Benzo(a)anthracene	$0\ 0605$	mg/L	1	0.0800	< 0 0000703	76	10 - 143
Chrysene	0.0635	mg/L	1	0.0800	< 0.000113	79	10 - 179
Benzo(b)fluoranthene	0.0603	mg/L	1	0.0800	< 0.000134	75	10 - 141
Benzo(k)fluoranthene	$0\ 0741$	mg/L	1	0 0800	< 0.000227	93	10 - 157
Benzo(a)pyrene	0.0685	mg/L	1	0.0800	< 0 000200	86	10 - 146
Indeno(1,2,3-cd)pyrene	0.0736	mg/L	1	0.0800	< 0 000253	92	10 - 147
Dibenzo(a,h)anthracene	0 0708	mg/L	1	0.0800	< 0.000180	88	10 - 160
Benzo(g,h,ı)perylene	0 0701	$_{ m mg/L}$	1	0 0800	< 0.000158	88	13.8 - 132

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	Dıl.	Amount	Result	Rec.	Limit	RPD	Limit
Naphthalene	0.0316	mg/L	1	0.0800	< 0 0000853	40	16.3 - 89.3	Q	20
Acenaphthylene	0.0452	mg/L	1	0.0800	< 0 0000768	56	13.9 - 103	2	20
Acenaphthene	0.0436	mg/L	1	00800	< 0.000103	54	12.4 - 101	1	20
Dibenzofuran	0.0463	m mg/L	1	0.0800	< 0 000200	58	10 - 106	2	20
Fluorene	0.0529	mg/L	1	0.0800	< 0 0000861	66	10 - 110	4	20
Anthracene	0.0573	${ m mg/L}$	1	0.0800	< 0.000170	72	18.8 - 121	1	20
Phenanthrene	0.0551	m mg/L	1	0.0800	< 0.0000884	69	20 6 - 118	0	20
Fluoranthene	0.0621	${ m mg/L}$	1	0.0800	< 0 0000969	78	19.1 - 133	1	20
Pyrene	0.0634	mg/L	1	0.0800	< 0 0000855	79	10 - 192	2	20
Benzo(a)anthracene	0.0614	m mg/L	1	0.0800	< 0.0000703	77	10 - 143	2	20
Chrysene	0.0645	${ m mg/L}$	1	0.0800	< 0.000113	81	10 - 179	2	20
Benzo(b)fluoranthene	0.0607	$_{ m mg/L}$	1	0.0800	< 0 000134	76	10 - 141	1	20
Benzo(k)fluoranthene	0.0736	mg/L	1	0.0800	< 0.000227	92	10 - 157	1	20
Benzo(a)pyrene	0.0685	m mg/L	1	0.0800	< 0 000200	86	10 - 146	0	20
Indeno(1,2,3-cd)pyrene	0.0739	mg/L	1	0.0800	< 0.000253	92	10 - 147	0	20
Dibenzo(a,h)anthracene	0.0701	mg/L	1	0.0800	< 0.000180	88	10 - 160	1	20
Benzo(g,h,i)perylene	0.0696	m mg/L	1	0 0800	< 0.000158	87	13.8 - 132	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	Limit
2-Fluorobiphenyl	0 0354	0 0355	mg/L	1	0 08	44	44	10 - 94 8
Nitrobenzene-d5	0.0329	0.0328	$_{ m mg/L}$	1	0 08	41	41	10 - 110
Terphenyl-d14	0.0670	0.0676	${ m mg/L}$	1	0.08	84	84	10 - 114

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Matrix Spike (MS-1)	Spiked Sample. 1	71025							
QC Batch: 51705 Prep Batch: 44332			nalyzed: paration	2008-08-2 2008-08-2				alyzed l	
Param	MS Rest		Units	Dil.	Spike Amoun	t R		Rec.	Rec Limit
SPLP Cyanide	11.		mg/Kg	1	12.0		1.94	92	-
Percent recovery is based or	n the spike result.	RPD is	s based or	n the spike	and spike	duplicate	e result.		
Param SPLP Cyanide	MSD Result 10.8	Units mg/K		Spike Amount 12 0	Matrix Result <1.94	Rec. 90	Rec.	$\frac{\text{RPD}}{3}$	RPD Limit
Percent recovery is based or							e result		
Matrix Spike (MS-1) QC Batch. 51714 Prep Batch 44341		Date An	alyzed. paration.	2008-08-2 2008-08-2				lyzed E	
Param	MS Resu		Units	Dıl	Spike Amount	Matri Resul			Rec Limit
Nitrate-N	71.7		mg/L	25	62.5	<1.7			3 6 - 122
Percent recovery is based or		~~		n the spike	and spike				
v						•			RPD
D	$rac{ ext{MSD}}{ ext{Result}}$			Spike	Matrix		Rec .		
Param		Linits	Dil		Result	Rec	Limit	RPD	
Param Nitrate-N		Units mg/L		Amount		Rec. 94	Limit 73 6 - 122	$\frac{\text{RPD}}{20}$	Limit
Nitrate-N	58.8	mg/L	25	Amount 62.5	<1.75	94	73 6 - 122	RPD 20	
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714	58.8 In the spike result. Spiked Sample 1	mg/L RPD is 71025 Date An	25 s based or allyzed:	Amount 62.5 n the spike 2008-08-2	<1.75 and spike	94	73 6 - 122 e result Ana	20 lyzed F	Limit 20 By. RD
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714	58.8 In the spike result. Spiked Sample 1	mg/L RPD is 71025 Date An	25 s based or	Amount 62.5 n the spike	<1.75 and spike	94	73 6 - 122 e result Ana	20	Limit 20 By. RD
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714 Prep Batch 44341	58.8 In the spike result. Spiked Sample 1 I MS	mg/L RPD is 71025 Date An QC Prep	25 s based or alyzed: paration	Amount 62.5 In the spike 2008-08-2 2008-08-2	<1.75 and spike	94 duplicate	73 6 - 122 e result Ana Prep	20 lyzed F	Limit 20 By. RD By: RD Rec
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714 Prep Batch 44341 Param	58.8 In the spike result. Spiked Sample 1 I MS Resu	mg/L RPD is 71025 Date An QC Prep	25 s based or alyzed: paration Units	Amount 62.5 In the spike 2008-08-2 2008-08-2	<1.75 and spike 22 22 Spike Amount	94 duplicate Matri Resul	Ana Prep x t Rec	20 lyzed E pared B	Limit 20 By. RD by: RD Rec Limit
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714 Prep Batch 44341 Param SPLP Chloride	58.8 In the spike result. Spiked Sample 1 I MS Resu 409	mg/L RPD is 71025 Date An QC Prep	25 s based or allyzed: paration Units mg/L	Amount 62.5 In the spike 2008-08-2 2008-08-2 Dil 25	<1.75 and spike 22 22 Spike Amount 312	94 duplicate Matri Resul 99.692	73 6 - 122 e result Ana Prep x t Rec 29 99	20 lyzed E pared B	Limit 20 By. RD By: RD Rec
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714 Prep Batch 44341 Param SPLP Chloride	58.8 In the spike result. Spiked Sample 1 I MS Resu 409	mg/L RPD is 71025 Date An QC Prep	25 s based or allyzed: paration Units mg/L	Amount 62.5 In the spike 2008-08-2 2008-08-2 Dil 25	<1.75 and spike 22 22 Spike Amount 312	94 duplicate Matri Resul 99.692	73 6 - 122 e result Ana Prep x t Rec 29 99	20 lyzed E pared B	Limit 20 By. RD by: RD Rec Limit
Nitrate-N Percent recovery is based on Matrix Spike (MS-1) QC Batch: 51714	58.8 In the spike result. Spiked Sample 1 I MS Resu 409	mg/L RPD is 71025 Date An QC Prep	25 s based or halyzed: paration Units mg/L s based or	Amount 62.5 In the spike 2008-08-2 2008-08-2 Dil 25	<1.75 and spike 22 22 Spike Amount 312	94 duplicate Matri Resul 99.692	73 6 - 122 e result Ana Prep x t Rec 29 99	20 lyzed E pared B	Limit 20 By. RD By: RD Rec Limit 19.8 - 149

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

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Matrix Sp	oike (MS-1)	Spiked Sample	171025						i	
QC Batch. Prep Batch	51714 44341			nalyzed. eparation	2008-08 : 2008-08				lyzed oared	
D			1S	TT 4	D.I	Spike	Mat			Rec.
Param SPLP Fluor	rido		sult 3.1	Units mg/L	Dıl. 25	$\frac{\text{Amount}}{62.5}$	Res			Limit 63.5 - 127
		on the spike resul							<u> </u>	03.3 - 127
1 01 00110 10 -		MSD			Spike	Matrix	a ap o	Rec		RPD
Param		Result	Units	Dil.	Amount	Result	Rec	Limit	RP	
SPLP Fluor	ride	53.6	mg/L		62.5	<2.22	86	63.5 - 127	1	20
		on the spike resul								
Standard	(ICV-1)									
QC Batch	51597		Date A	nalyzed	2008-08-2	20		Ana	lyzed	By: RD
			CCVs		CVs	CCVs		Percent		
_		** *.	True		ound	Percent		Recovery		Date
Param Chloride	Flag	Units mg/Kg	Conc. 12.5		onc. 1.7	Recovery 94		Limits 90 - 110		Analyzed 2008-08-20
Standard QC Batch.			Date A	nalyzed:	2008-08-2	20		Ana	lyzed	By. RD
			CCVs	C	CVs	CCVs		Percent		
			True		ound	Percent		Recovery		Date
Param	Flag	Units	Conc.		onc	Recovery		Limits		Analyzed
Chloride		mg/Kg	12.5		1.5	92		90 - 110		2008-08-20
Standard ((ICV-1)								ĺ	
QC Batch	51600		Date Ar	nalyzed	2008-08-2	0		Anal	yzed I	By. CM
D.	DI.	T	CCVs True	Fo	CVs ound	CCVs Percent		Percent Recovery		Date
$\frac{\text{Param}}{\text{TRPHC}}$	Flag	Units mg/Kg	Conc 100		onc. 0.8	Recovery 91		Limits 80 - 120		Analyzed 2008-08-20
Standard (QC Batch:		<u>8</u> / **5	Date Ar		2008-08-2					By: CM

Report	${\bf Date.}$	August	27,	2008
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	,_,						
	-1		CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
TRPHC		mg/Kg	100	90.4	90	80 - 120	2008-08-20
Standard (ICV-1)						
QC Batch	51649		Date Analy	zed: 2008-08-	-21	Analy	yzed By KV
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag		Conc.	Conc	Recovery	Limits	Analyzed
SPLP Mercu	ıry	mg/L	0.00500	0.00493	99	90 - 110	2008-08-21
Standard (CCV-1)						
QC Batch	51649		Date Analy	zed: 2008-08-	-21	Analy	vzed By. KV
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	g Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Mercu	ıry	m mg/L	0 00500	0.00516	103	80 - 120	2008-08-21
Standard (ICV-1)						
QC Batch·	51658		Date Analy	zed. 2008-08-	-21	Analy	yzed By. RR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	$\mathbf{F}\mathbf{I}$	ag Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Cadm	ıum	mg/L	1.00	0 981	98	90 - 110	2008-08-21
Standard (ICV-1)						
QC Batch.	51658		Date Analy	zed: 2008-08-	-21	Analy	yzed By. RR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Lead		mg/L	1 00	0 985	98	90 - 110	2008-08-21
Standard (ICV-1)						
QC Batch	51658		Date Analys	zed· 2008-08-	-21	Analy	yzed By RR
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QC Batch. 51658

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Analyzed By. RR

MEWBOOD27F11			DI	adiey o red. 4	r 1	Dav	Ty Country, 1419.
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	$_{ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Selenium		mg/L	1.00	0 972	97	90 - 110	2008-08-21
Standard (ICV-1)							
QC Batch: 51658			Date Analyz	ed: 2008-08-	21	Analy	zed By. RR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Arsenic		mg/L	1.00	0.989	99	90 - 110	2008-08-21
Standard (ICV-1)							
QC Batch: 51658			Date Analyz	ed 2008-08-	21	Analy	zed By: RR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
SPLP Barium		${ m mg/L}$	1.00	0.989	99	90 - 110	2008-08-21
Standard (ICV-1)							
QC Batch 51658			Date Analyz	ed. 2008-08-	21	Analy	yzed By RR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Chromium		m mg/L	1.00	0.982	98	90 - 110	2008-08-21
Standard (ICV-1)							
QC Batch 51658			Date Analyz	ed: 2008-08-	21	Analy	yzed By: RR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param Fl.	ag	Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Silver		mg/L	0.125	0.124	99	90 - 110	2008-08-21

Date Analyzed. 2008-08-21

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Param	Flag	Ur	nits	CCVs True Conc	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP U			g/L	1.00	1.02	102	90 - 110	2008-08-21
Standard ((CCV-1)							
QC Batch.	51658			Date Analy	zed: 2008-08	-21	Analy	yzed By. RR
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
SPLP Cadn	nium		mg/L	1 00	0 967	97	90 - 110	2008-08-21
Standard ((CCV-1)							
QC Batch	51658			Date Analy	zed. 2008-08	-21	Analy	yzed By: RR
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	g	Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Lead			mg/L	1.00	0.968	97	90 - 110	2008-08-21
Standard ((CCV-1)							
QC Batch	51658			Date Analy	zed: 2008-08	-21	Analy	yzed By: RR
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Selen	ium		mg/L	1.00	0 985	98	90 - 110	2008-08-21
Standard ((CCV-1)							
QC Batch:	51658			Date Analy	zed 2008-08	-21	Analy	yzed By. RR
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param		lag	Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Arser	пс		$\mathrm{mg/L}$	1 00	0.986	99	90 - 110	2008-08-21
Standard ((CCV-1)							
QC Batch	51658			Data Anal-	zed. 2008-08	91	A a l	yzed By: RR

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continued

MEWBOOD27F13				Drauley	o red. #			y County, IVIVI
Param	Flag	Units	CCVs True Conc	F	CVs ound onc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
SPLP Barium	riag	mg/L	1.00		983	98	90 - 110	2008-08-21
SFLF Darium		mg/L	1.00		303	90	90 - 110	2008-08-21
Standard (CCV	-1)							
QC Batch 51658	3		Date An	alyzed.	2008-08-2	1	Analy	zed By: RR
			CC_{A}		CCVs	CCVs	Percent	
			Tru		Found	Percent	Recovery	Date
Param	Flag	Units	Con	c.	Conc.	Recovery	Limits	Analyzed
SPLP Chromium		mg/L	10	0	0.978	98	90 - 110	2008-08-21
Standard (CCV	-1)							
QC Batch: 51658	3		Date An	alyzed	2008-08-2	1	Analy	zed By: RR
			CCVs	C	CVs	CCVs	Percent	
			True	Fo	und	Percent	Recovery	Date
Param	Flag	Units	Conc.	C	onc.	Recovery	Limits	Analyzed
SPLP Silver	<u> </u>	mg/L	0 125		123	98	90 - 110	2008-08-21
Standard (CCV) QC Batch: 51658	•		Date An	alyzed	2008-08-2	1	Analy	zed By: RR
			CCVs	CC'	Ve	CCVs	Percent	
			True	Four		Percent	Recovery	Date
Damama E	log II	nits	Conc	Con			•	
Param F SPLP U		g/L	1.00	0.98		Recovery 98	Limits 90 - 110	Analyzed 2008-08-21
Standard (CCV-		<u> </u>						
QC Batch. 51663	3		Date An	alyzed.	2008-08-2	25	Analy	zed By: DS
			(CCVs True	CCVs Found	$rac{ ext{CCVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	F	lag U	nits	Conc.	Conc.	Recovery	Limits	Analyzed
Naphthalene			g/L	60.0	56.5	94	80 - 120	2008-08-25
Acenaphthylene			g/L	60.0	58 8	98	80 - 120	2008-08-25
Acenaphthene			g/L	60 0	57 7	96	80 - 120	2008-08-25
Dibenzofuran			g/L	$60 \ 0$	$59\ 5$	99	80 - 120	2008-08-25
Fluorene			g/L	60 0	62.7	104	80 - 120	2008-08-25
Anthracene			g/L	60.0	58.0	97	80 - 120	2008-08-25
Phenanthrene			g/L	60 0	57.2	95	80 - 120	2008-08-25
Fluoranthene			g/L	60 0	57 9	96	80 - 120	2008-08-25
Pyrene			g/L g/L	60.0	59.4	99	80 - 120	2008-08-25
- J. C. I.C.	······································		0/ -	30.0	55.4		00 - 120	2000-00-20

Report Date: August 27, 2008 MEWBOU027PIT Work Order 8081912 Bradley 6 Fed. #1 Page Number 34 of 37 Eddy County, NM

$standard\ continued\ .$							
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzo(a)anthracene		mg/L	60 0	55.8	93	80 - 120	2008-08-25
Chrysene		$_{ m mg/L}$	$60 \ 0$	58.5	98	80 - 120	2008-08-25
Benzo(b)fluoranthene		$_{ m mg/L}$	60.0	55.9	93	80 - 120	2008-08-25
Benzo(k)fluoranthene		m mg/L	60 0	64.6	108	80 - 120	2008-08-25
Benzo(a)pyrene		${ m mg/L}$	$60 \ 0$	58.7	98	80 - 120	2008-08-25
Indeno(1,2,3-cd)pyrene		$_{ m mg/L}$	$60 \ 0$	66.3	110	80 - 120	2008-08-25
Dibenzo(a,h)anthracene		mg/L	60.0	$66\ 2$	110	80 - 120	2008-08-25
Benzo(g,h,ı)perylene		mg/L	60.0	63.2	105	80 - 120	2008-08-25
					Spike	Percent	Recovery
Surrogate Fla	ag	Result	Units	Dilution	Amount	Recovery	Limit
2-Fluorobiphenyl		57.4	mg/L	1	60 0	96	80 - 120
Nitrobenzene-d5		58.8	mg/L	1	$60\ 0$	98	80 - 120
Terphenyl-d14		58.4	mg/L	1	60.0	97	80 - 120

Standard (CCV-1)

QC Batch 51703

Date Analyzed 2008-08-20

Analyzed By. JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride	1	$\mu \mathrm{g/L}$	50.0	38.5	77	80 - 120	2008-08-20
1,1-Dichloroethene		$\mu { m g}/{ m L}$	$50 \ 0$	45.1	90	80 - 120	2008-08-20
Chloroform		$\mu { m g}/{ m L}$	50 0	45.1	90	80 - 120	2008-08-20
1,2-Dichloropropane		$\mu \mathrm{g}/\mathrm{L}$	50.0	48.0	96	80 - 120	2008-08-20
Toluene		$\mu { m g}/{ m L}$	50.0	47.6	95	80 - 120	2008-08-20
Chlorobenzene		$\mu { m g}/{ m L}$	50.0	48.1	96	80 - 120	2008-08-20
Ethylbenzene		$\mu { m g}/{ m L}$	50~0	$50 \ 2$	100	80 - 120	2008-08-20

Standard (CCV-2)

QC Batch 51703

Date Analyzed: 2008-08-20

Analyzed By: JG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	$_{ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Vinyl Chloride		$\mu { m g/L}$	50 0	39.8	80	80 - 120	2008-08-20
1,1-Dichloroethene		$\mu { m g}/{ m L}$	$50 \ 0$	49.7	99	80 - 120	2008-08-20
Chloroform		$\mu { m g/L}$	50.0	44 9	90	80 - 120	2008-08-20
1,2-Dichloropropane		$\mu { m g/L}$	50.0	48.1	96	80 - 120	2008-08-20
Toluene		$\mu { m g}/{ m L}$	50.0	48.8	98	80 - 120	2008-08-20
Chlorobenzene		$\mu { m g}/{ m L}$	50 0	49 0	98	80 - 120	2008-08-20

continued.

¹Vinyl Chloride outside of control limits on CCV(ICV). CCV(ICV) component average is 91 which is within acceptable range. This is acceptable by Method 8000.

Report Date: August 27, 2008

MEWBOU027PIT

Work Order: 8081912 Bradley 6 Fed #1 Page Number: 35 of 37 Eddy County, NM

standard	continued	
o o car b ca car ca	COTTOUT	•

stanaara continuea .							
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	\mathbf{Units}	Conc.	Conc	Recovery	Limits	Analyzed
Ethylbenzene		$\mu \mathrm{g/L}$	50.0	50.6	101	80 - 120	2008-08-20

Standard (ICV-1)

QC Batch: 51705

Date Analyzed 2008-08-21

Analyzed By SS

			$rac{ ext{CCVs}}{ ext{True}}$	${ m CCVs} \ { m Found}$	$rac{ ext{CCVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed
SPLP Cyanide		${ m mg/Kg}$	0.120	<1 94	0	-	2008-08-21

Standard (CCV-1)

QC Batch: 51705

Date Analyzed. 2008-08-21

Analyzed By: SS

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Cyanide		mg/Kg	0 120	< 1.94	0	-	2008-08-21

Standard (ICV-1)

QC Batch 51714

Date Analyzed. 2008-08-22

Analyzed By. RD

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
Nitrate-N		mg/L	2.50	2.60	104	90 - 110	2008-08-22

Standard (ICV-1)

QC Batch: 51714

Date Analyzed: 2008-08-22

Analyzed By: RD

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
SPLP Chloride		$\overline{\mathrm{mg/L}}$	12.5	11.9	95	90 - 110	2008-08-22

Standard (ICV-1)

QC Batch: 51714

Date Analyzed: 2008-08-22

Analyzed By RD

Report Date. August 27, 2008 MEWBOU027PIT

* * * * * •

Work Order: 8081912 Bradley 6 Fed. #1 Page Number. 36 of 37 Eddy County, NM

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Uni	its (Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Fluoride		mg	/L	2.50	2.25	90	90 - 110	2008-08-22
Standard (CCV-1))							
QC Batch: 51714			Date	e Analyzed	2008-08-22		Analyze	d By: RD
			CCV	/s (CCVs	CCVs	Percent	
			Tru		ound	Percent	Recovery	Date
Param Fla	ag	Units	Con	c. (Conc	Recovery	Limits	Analyzed
Nıtrate-N		mg/L	2.50)	2.54	102	90 - 110	2008-08-22
		· · · · · · · · · · · · · · · · · · ·						
Standard (CCV-1))							
QC Batch: 51714			Date	e Analyzed.	2008-08-22		Analyze	d By: RD
			(CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Uni		Conc.	Conc.	Recovery	Limits	Analyzed
SPLP Chloride		mg		12.5	11.9	95	90 - 110	2008-08-22
Standard (CCV-1) QC Batch 51714			Date	e Analyzed:	2008-08-22		Analyze	d By: RD
			0	CCVs	CCVs	CCVs	Donoont	
				True	Found	Percent	Percent Recovery	Date
Param	Flag	Unı		lrue Conc	Conc.	Recovery	Limits	Analyzed
SPLP Fluoride	1146	mg		2 50	2.25	90	90 - 110	2008-08-22
DI DI TIMOTIMO		6/						
Standard (ICV-1)								
QC Batch: 51822			Date	e Analyzed.	2008-08-26		Analyze	d By: TG
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Aroclor 1242 (PCB-1	,		$\mathrm{mg/L}$	0.400	0.366	92	85 - 115	2008-08-26
Aroclor 1254 (PCB-1			m mg/L	$0\ 400$	0.381	95	85 - 115	2008-08-26
Aroclor 1260 (PCB-1	.260)		mg/L	0.400	0 339	85	85 - 115	2008-08-26
						Spike	Percent	Recovery
Surrogate	•	Flag	Result	Units	Dilution	Amount	Recovery	Limit
Deca chlorobiphenyl		0	0.112	mg/L	1	0.100	112	85 - 115
				- 01 -				

Report Date: August 27, 2008

MEWBOU027PIT

Work Order: 8081912 Bradley 6 Fed #1 Page Number. 37 of 37 Eddy County, NM

Standard (CCV-1)

QC Batch. 51822

Date Analyzed. 2008-08-26

Analyzed By. TG

Param Flag Units Conc. Conc Recovery Limits Analyz Aroclor 1242 (PCB-1242) mg/L 0 400 0 444 111 85 - 115 2008-08 Aroclor 1254 (PCB-1254) mg/L 0.400 0.396 99 85 - 115 2008-08	, 40 Baton: 01012		2000.	i i i i i i i i i i i i i i i i i i i	-000 00 -0		111101	25 25. I C.
Param Flag Units Conc. Conc Recovery Limits Analyz Aroclor 1242 (PCB-1242) mg/L 0 400 0 444 111 85 - 115 2008-08 Aroclor 1254 (PCB-1254) mg/L 0.400 0.396 99 85 - 115 2008-08				CCVs	CCVs	CCVs	Percent	
Aroclor 1242 (PCB-1242) mg/L 0 400 0 444 111 85 - 115 2008-08 Aroclor 1254 (PCB-1254) mg/L 0.400 0.396 99 85 - 115 2008-08	ŧ			True	Found	Percent	Recovery	Date
Aroclor 1254 (PCB-1254) mg/L 0.400 0.396 99 85 - 115 2008-08	Param	Flag	$_{ m Units}$	Conc.	Conc	Recovery	Limits	Analyzed
·	Aroclor 1242 (PCB-1242)		mg/L	0 400	0 444	111	85 - 115	2008-08-26
Aroclor 1260 (PCB-1260) mg/L 0.400 0.347 87 85 - 115 2008-08	Aroclor 1254 (PCB-1254)		$\mathrm{mg/L}$	0.400	0.396	99	85 - 115	2008-08-26
	Aroclor 1260 (PCB-1260)		mg/L	0.400	0.347	87	85 - 115	2008-08-26

Spike Percent Recovery Dilution Surrogate Flag Result Units Amount Recovery Limit Deca chlorobiphenyl 0.112 0 100 112 85 - 115 mg/L 1

LAB Order ID#

TraceAnalysis, Inc.

email lab@traceanalysis com

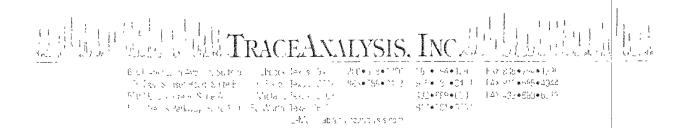
6701 Aberdeen Avenue Suite 9 **Lubbock, Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

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

200 East Sunset Rd , Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

8808 Camp Bowie Blvd West, Suite Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

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LAB USE)	FIELD CODE	# CONTAINERS	Volume / Amount	WATER	AIR	SLUDGE	HCI	HNO ₃	H₂SO₄ NaOH	ICE	NONE		DATE	TIME	MIRE 1802/B / 602 / 8260B	PH 418 1	TPH 8015 GRO / DRO / TVHC		TCLP Metals Ag	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 624	GC/MS Semi		BOD, TSS, pH	Moisture Content	Htacked	-/2	Turn Around Time if different from standard	Hold
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NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Shelly Tucker Talon LPE-Hobbs 318 E Taylor Hobbs, NM, 88240

Report Date: September 9, 2008

Work Order:

Project Location. Eddy County, NM Project Name. Bradley 6 Fed #1 MEWBOU027PIT Project Number

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
172379	BH-1	soil	2008-08-27	11 20	2008-08-29
172380	BH-2	soil	2008-08-27	11 28	2008-08-29

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

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

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 6 Fed. #1 were received by TraceAnalysis, Inc. on 2008-08-29 and assigned to work order 8082927. Samples for work order 8082927 were received intact at a temperature of 2.8 deg. C.

Samples were analyzed for the following tests using their respective methods

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
MTBE	S 8021B
TPH 418.1	E 418 1
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8082927 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: September 9, 2008 MEWBOU027PIT

Work Order 8082927 Bradley 6 Fed. #1

Page Number. 4 of 15 Eddy County, NM

Analytical Report

Sample:	172379 -	BH-1
---------	----------	------

Labora	tory:	Lubbock

Analysis: BTEXQC Batch: 51972Prep Batch: 44568

Analytical Method: S 8021B Date Analyzed. Sample Preparation:

2008-09-02 2008-09-02 Prep Method. S 5035 Analyzed By. ERPrepared By ER

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0 0100	mg/Kg	1	0.0100
Xylene		< 0 0100	m mg/Kg	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.24	mg/Kg	1	1.00	124	59 - 136.1
4-Bromofluorobenzene (4-BFB)		1.22	${ m mg/Kg}$	1	1.00	122	54 4 - 176.2

Sample: 172379 - BH-1

Laboratory: Lubbock

Analysis Chloride (Titration) 52179 QC Batch. Prep Batch 44743

SM 4500-Cl B Analytical Method: Date Analyzed. 2008-09-09 2008-09-08 Sample Preparation:

Prep Method: N/A Analyzed By RGRGPrepared By.

RLUnits RLResult Dilution Parameter Flag 3.25 Chloride 518 mg/Kg 10

Sample: 172379 - BH-1

Laboratory. Lubbock TPH 418.1 Analysis QC Batch 51953 Prep Batch 44548

Analytical Method Date Analyzed. Sample Preparation

 $\to 418.1$ 2008-09-02 2008-09-02 Prep Method N/A Analyzed By: CMPrepared By CM

RLParameter Flag Result Units Dilution RLTRPHC 10 0 <10.0 mg/Kg

Report	Date	September	9,	2008
MEWB	CITIO	7PIT		

Work Order. 8082927 Bradley 6 Fed. #1

Page Number: 5 of 15 Eddy County, NM

Laboratory.	Lubbock

Analysis: TPH DRO QC Batch. 51983 Prep Batch: 44578

Analytical Method. Date Analyzed. Sample Preparation. 2008-09-02

Mod. 8015B 2008-09-02

Prep Method. N/A Analyzed By: MN Prepared By. MN

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		117	mg/Kg	1	100	117	49.5 - 185

Sample: 172379 - BH-1

Laboratory: Lubbock

TPH GRO Analysis QC Batch. 51974 Prep Batch 44568

Analytical Method Date Analyzed

S 8015B 2008-09-02 2008-09-02 Prep Method: S 5035 Analyzed By. ER

Prepared By.

ER

RΤ

Sample Preparation

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

					$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.21	mg/Kg	1	1.00	121	55.3 - 161 9
4-Bromofluorobenzene (4-BFB)		1.41	m mg/Kg	1	1 00	141	45.6 - 214.7

Sample: 172380 - BH-2

Laboratory Lubbock

Analysis BTEXQC Batch: 51972 Prep Batch: 44568

Analytical Method: Date Analyzed

S 8021B 2008-09-02 Sample Preparation: 2008-09-02 Prep Method: S 5035 Analyzed By $\mathbf{E}\mathbf{R}$ Prepared By ER

r	Flag	Ro

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
MTBE		< 0.0100	mg/Kg	1	0.0100
Benzene		< 0.0100	mg/Kg	1	$0\ 0100$
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

								
					Spike	Percent	Reco	overy
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Lin	
Trifluorotoluene (TFT)	1	1.45	mg/Kg	1	1.00	145		136.1
4-Bromofluorobenzene (4-BFB)		1 41	mg/Kg	1	1 00	141	54.4 -	
			· ·					
Sample: 172380 - BH-2								
Laboratory Lubbock								
Analysis. TPH 418 1			al Method:	E 418 1			Method	N/A
QC Batch 51953		Date An		2008-09-02			yzed By:	CM
Prep Batch. 44548		Sample 1	Preparation:	2008-09-02	2	Prep	ared By.	CM
		RL						
Parameter Flag		Result		Units	<u></u>	Dilution		RL
TRPHC		<10.0		mg/Kg		1		10.0
Sample: 172380 - BH-2 Laboratory: Lubbock Analysis: TPH DRO QC Batch: 51983 Prep Batch: 44578		Date Ana	ll Method: llyzed. reparation:	Mod. 8015l 2008-09-02 2008-09-02	В	Anal	Method yzed By: ared By.	N/A MN MN
		RL						
Parameter Flag		Result		Units		Dilution		RL
DRO		< 50 0		mg/Kg		1		50.0
					Spike	Percent	Rec	overy
Surrogate Flag	Result	Units		tion .	Amount	Recovery		$_{ m mits}$
n-Triacontane	110	mg/Kg	5	1	100	110	49.5	- 185
Sample: 172380 - BH-2								
Laboratory Lubbock								
Analysis: TPH GRO		Analytica	l Method	S 8015B		Prep M	lethod. S	5 5035
QC Batch: 51974		Date Ana		2008-09-02		Analyz	ed By. I	ER
Prep Batch 44568			reparation:	2008-09-02	3	Prepar		ER
		RL						
Parameter Flag		Result		Units		Dilution		RL
GRO		<1 00		mg/Kg		1		1 00

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

Report Date: September 9, 2008 MEWBOU027PIT

Work Order 8082927 Bradley 6 Fed. #1

Page Number. 7 of 15 Eddy County, NM

		ъ.,	77	D:1 :	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	(DED)	1 41	mg/Kg	1	1.00	141	55.3 - 161.
4-Bromofluorobenzene (4-BFB)	1.63	mg/Kg	1	1.00	163	45 6 - 214
Method Blank (1)	QC Batch: 51953						
QC Batch. 51953 Prep Batch 44548		Date An QC Prep		08-09-02 08-09-02			yzed By: CM ared By. CM
			MDL				
Parameter	Flag		Result		Unı		R
ТПРНС			<1 06			Kg	10
Method Blank (1)	QC Batch: 51972	.					LD DE
QC Batch. 51972		Date An		008-09-02			yzed By: ER
Prep Batch 44568		QC Prep	paration: 20	008-09-02		Prep	ared By. ER
			ME	L			
Parameter	Flag		Resu		Un		RI
MTBE			< 0.0020		mg/		0.0
Benzene			< 0.003		mg/		0.0
Toluene			< 0.005	-	mg/		0 0
Ethylbenzene			< 0.006		mg/		0 0
Xylene			< 0.007	24	mg/	ng	00
Surrogate	Flag	Result	Units	Dilution	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Percent Recovery	Recovery Limits
	Tiag				1.00	94	69.3 - 110.
Trifluorotoluene (TFT)		0.945	mø/Kø	1			
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-	4-BFB)	$0.945 \\ 0.673$	mg/Kg mg/Kg	1 1	1.00	67	24.4 - 114.
	4-BFB) QC Batch 51974			-			
4-Bromofluorobenzene (Method Blank (1)		0 673	mg/Kg	-		67	24.4 - 114.
4-Bromofluorobenzene (Method Blank (1)			mg/Kg alyzed. 20	1		67 Anal	24.4 - 114.
4-Bromofluorobenzene (Method Blank (1) QC Batch: 51974		0 673 Date An	mg/Kg alyzed. 20 paration. 20	1008-09-02		67 Anal	24.4 - 114. yzed By ER
4-Bromofluorobenzene (Method Blank (1) QC Batch: 51974		0 673 Date An	mg/Kg alyzed. 20	1008-09-02		Anal Prep	24.4 - 114. yzed By ER

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						S	pike	Percent		covery
Surrogate		Flag	Result	Units	Diluti		ount	Recovery		imits
Trifluorotoluene (TF			0 914	mg/Kg			.00	91		- 108 5
4-Bromofluorobenzen	ie (4-BFB)	0.771	mg/Kg	; 1	1	.00	77	34.5	- 105 8
Method Blank (1)	QC :	Batch. 51983								
` '	•		D-4- A	-1J	2008-09-02	1		۸ ۱	lyzed By	MN
QC Batch: 51983 Prep Batch 44578			Date Ana QC Prep	•	2008-09-02				ared By	MN
110p 20001 11010			4 0 110p	W1 W1011	2000 00 02					
_				MD						
Parameter		Flag		Result <6.77			Uni		<u> </u>	$\frac{RL}{50}$
DRO				< 6.			mg/	Kg		50
						Spike		Percent	Re	ecovery
Surrogate	Flag	Result	Units	D	Ollution	Amour		Recovery		Limits
n-,Triacontane		96.7	mg/Kg	5	1	100		97	49	5 - 185
Method Blank (1)	QC :	Batch: 52179			2000 00 00			,		5.0
QC Batch 52179 Prep Batch: 44743	QC :		Date And QC Prep	paration. MD			TI	Prep	lyzed By pared By	: RG
QC Batch 52179 Prep Batch: 44743 Parameter	QC :	Batch: 52179 Flag		paration. MD Resu	2008-09-08 L lt		Unit	Prep		: RG RL
QC Batch 52179 Prep Batch: 44743	QC :			paration. MD	2008-09-08 L lt		Unit mg/I	Prep		: RG
QC Batch 52179 Prep Batch: 44743 Parameter		Flag		paration. MD Resu	2008-09-08 L lt			Prep		: RG RL
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953		Flag	QC Prep	MD Resu <1.8	2008-09-08 L lt 30 2008-09-02	2		Prep	pared By	RG RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control		Flag	QC Prep	MD Resu <1.8	2008-09-08 L lt 30	2		Prep	pared By	RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953		Flag (LCS-1)	QC Prep	MD Resu <1.8	2008-09-08 L lt 30 2008-09-02	2		Prep Kg Ana Prep	lyzed By	RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953 Prep Batch: 44548 Param		Flag (LCS-1) L Re	QC Prep Date Ana QC Prep CS sult U	MD Resu <1.8 alyzed aration:	2008-09-08 L lt 80 2008-09-02 2008-09-02	Spike Amount	mg/I	Ana Prep	lyzed By	RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953 Prep Batch: 44548		Flag (LCS-1) L Re	QC Prep Date Ana QC Prep CS sult U	MD Resu <1.8 alyzed aration:	2008-09-08 L lt 80 2008-09-02 2008-09-02	Spike	mg/I	Ana Prep	lyzed By	RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953 Prep Batch: 44548 Param	ol Spike	Flag (LCS-1) L Re	Date And QC Prep	alyzed paration: Units orang/Kg	2008-09-08 L lt 80 2008-09-02 2008-09-02 Dil. 1	Spike Amount 250	mg/I	Ana Preparation of the Preparati	lyzed By	RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953 Prep Batch: 44548 Param TRPHC	ol Spike	Flag (LCS-1) L Re	Date And QC Prep	alyzed paration: Units orang/Kg	2008-09-08 L lt 80 2008-09-02 2008-09-02 Dil. 1	Spike Amount 250	mg/I	Ana Preparation of the Preparati	lyzed By	RL 3.25
QC Batch 52179 Prep Batch: 44743 Parameter Chloride Laboratory Control QC Batch 51953 Prep Batch: 44548 Param TRPHC	ol Spike	Flag (LCS-1) L Re 2 ne spike result	Date And QC Prep	alyzed caration: Units cap/Kg cased on the	2008-09-08 L lt 80 2008-09-02 2008-09-02 Dil. 1 he spike an	Spike Amount 250 d spike du	mg/I	Ana Preparation of the Preparati	lyzed By	RL 3.25 . CM CM CM Rec Limit .5 - 136

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Laboratory	Control	Spike	(LCS-1))
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QC Batch. 51972 Prep Batch 44568 Date Analyzed. 2008-09-02 QC Preparation: 2008-09-02 Analyzed By. ER Prepared By ER

Param	$egin{array}{c} ext{LCS} \ ext{Result} \end{array}$	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec.	Rec Limit
MTBE	0 991	mg/Kg	1	1.00	< 0.00260	99	77.5 - 118.4
Benzene	0.978	${ m mg/Kg}$	1	1.00	< 0.00347	98	80 5 - 115.5
Toluene	0.990	mg/Kg	1	1.00	< 0.00525	99	80 - 114.7
Ethylbenzene	1.02	${ m mg/Kg}$	1	1 00	< 0 00607	102	77.1 - 1142
Xylene	3 01	mg/Kg	1	3.00	< 0.00724	100	77 6 - 114 5

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	$L_{1}m_{1}t$
MTBE	1.01	mg/Kg	1	1.00	< 0.00260	101	77.5 - 118.4	2	20
Benzene	1.01	mg/Kg	1	1.00	< 0.00347	101	80.5 - 115 5	3	20
Toluene	1.01	mg/Kg	1	1.00	< 0.00525	101	80 - 114 7	2	20
Ethylbenzene	0.994	mg/Kg	1	1.00	< 0.00607	99	77.1 - 114.2	3	20
Xylene	299	mg/Kg	1	3 00	< 0.00724	100	77.6 - 114.5	1	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.	Limit
Trifluorotoluene (TFT)	0.897	1.00	mg/Kg	1	1 00	90	100	74 2 - 114 7
4-Bromofluorobenzene (4-BFB)	0.887	0.954	${ m mg/Kg}$	1	1.00	89	95	69 7 - 118 7

Laboratory Control Spike (LCS-1)

QC Batch: 51974 Prep Batch 44568 Date Analyzed. 2008-09-02 QC Preparation 2008-09-02 Analyzed By ER Prepared By ER

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec	$_{ m Limit}$
GRO	10.6	mg/Kg	1	10.0	< 0.144	106	73.1 - 114 7

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

	LCSD			Spike	Matrix		Rec		RPD
Param	Result	Units	Dil	Amount	Result	Rec	Limit	RPD	Limit
GRO	10 8	mg/Kg	1	10.0	< 0.144	108	73.1 - 114 7	2	20

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

 $continue \overline{d}$. .

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control spikes continued	l									
•		LCS	LCSD			$_{ m Spike}$	LCS	LCSD	·	Rec
Surrogate		Result	Result	Units	Dıl.	Amount	Rec	Rec.	L	ımit
		LCS	LCSD			Spike	LCS	LCSD	ī	Rec.
Surrogate		Result	Result	Units	Dıl.	Amount		Rec.		ımıt
Trifluorotoluene (TFT)		1.09		mg/Kg	1	1.00	109	97	77.4	- 111 4
4-Bromofluorobenzene ((4-BFB)	1.02		mg/Kg	1	1.00	102	94	70.3	- 116.
	-							-		
Laboratory Control	Spike (LCS	S-1)								
QC Batch 51983		r	Oate Analyzed	: 2008-09	9-02			$_{ m Anal}$	yzed By	MN
Prep Batch: 44578			QC Preparatio		9-02			Prep	ared By.	MN
		LCS			Spi	ıke	Matrix			Rec.
Param		Result	Units	$D_{1}l$	Amo		Result	Rec		Limit
ORO		289	mg/Kg	1	25	50	< 6.77	116	73	9 - 13
Percent recovery is base	ed on the spi	ıke result. B		on the spike	and sp	ike duplı	cate resu	ılt		
corcond receivery to base	ou ou oue sp.		or D to Subout	_	_	_				
		LCSD		Spike	Ma	trıx		Rec.		RPI
		Result	Units Dil.					Limit	RPD	
DRO		267	mg/Kg 1	250	<6	.77 1	.07 73	.9 - 138	RPD 8	Limit 20
DRO	ed on the spi	267	mg/Kg 1	250	<6	.77 1	.07 73	.9 - 138		
DRO	•	267 rake result. R	mg/Kg 1	250	<6 and sp	.77 1 ike dupli	07 73	ilt	8	20
DRO Percent recovery is base	LCS	267 ranke result. R	mg/Kg 1 tPD is based o	250 on the spike	<6 and sp Spi	.77 1 ike dupli ke	07 73 cate resu	1.9 - 138 alt LCSD	8	20 Rec.
DRO Percent recovery is base Surrogate	LCS Result	267 rake result. R LCSD Result	m mg/Kg 1 $ m tPD$ is based of $ m Units$	250 on the spike Dil.	<6 and spi Spi Amo	.77 1 ike dupli ke ount	07 73 cate resu LCS Rec.	1.9 - 138 alt LCSD Rec	8	Rec. Limit
DRO Percent recovery is base Surrogate	LCS	267 ranke result. R	mg/Kg 1 tPD is based o	250 on the spike	<6 and sp Spi	.77 1 ike dupli ke ount	07 73 cate resu	1.9 - 138 alt LCSD	8	20 Rec.
ORO Percent recovery is base Surrogate i-Triacontane	LCS Result 84.9	267 the result. Result Result 71.3	m mg/Kg 1 $ m tPD$ is based of $ m Units$	250 on the spike Dil.	<6 and spi Spi Amo	.77 1 ike dupli ke ount	07 73 cate resu LCS Rec.	1.9 - 138 alt LCSD Rec	8	20 Rec. Limit
ORO Percent recovery is base Surrogate n-Triacontane Laboratory Control (LCS Result 84.9	267 the result. Result CSD Result 71.3	mg/Kg 1 PD is based of Units mg/Kg	250 on the spike Dil.	<6 and spi Spi Amo	.77 1 ike dupli ke ount	07 73 cate resu LCS Rec.	.9 - 138 ilt LCSD Rec 71	8 3 49.	20 Rec. Limit 5 - 18
ORO Percent recovery is base Surrogate n-Triacontane Laboratory Control (2) QC Batch: 52179	LCS Result 84.9	267 the result. Result CSD Result 71.3	$rac{ m mg/Kg}{ m LPD}$ is based of Units $ m mg/Kg$	250 on the spike Dil. 1 : 2008-09	<6 and spi Spi Amo 10	.77 1 ike dupli ke ount	07 73 cate resu LCS Rec.	.9 - 138 ilt LCSD Rec 71	8 49.	20 Rec. Limit 5 - 189
ORO Percent recovery is base Surrogate n-Triacontane Laboratory Control (2) QC Batch: 52179	LCS Result 84.9	267 the result. Result CSD Result 71.3	mg/Kg 1 PD is based of Units mg/Kg	250 on the spike Dil. 1 : 2008-09	<6 and spi Spi Amo 10	.77 1 ike dupli ke ount	07 73 cate resu LCS Rec.	.9 - 138 ilt LCSD Rec 71	8 3 49.	20 Rec. Limit 5 - 18 . RG
DRO Percent recovery is base Surrogate n-Triacontane Laboratory Control (QC Batch: 52179	LCS Result 84.9	267 the result. Result CSD Result 71.3	$rac{ m mg/Kg}{ m LPD}$ is based of Units $ m mg/Kg$	250 on the spike Dil. 1	<6 and spi Spi Amo 10	.77 1 ike dupli ke ount 0	07 73 cate resu LCS Rec.	.9 - 138 ilt LCSD Rec 71	8 49 lyzed By	20 Rec. Limit 5 - 18 . RG
ORO Percent recovery is base Surrogate n-Triacontane Laboratory Control (QC Batch: 52179 Prep Batch. 44743	LCS Result 84.9	267 the result. Result 71.3 S-1) LCS LCS Result 71.3	mg/Kg 1 tPD is based of Units mg/Kg Date Analyzed QC Preparation Units	250 on the spike Dil. 1	Spi Amo 10 3-09 3-08 Spik Amor	.77 1 ike dupli ke ount 0	07 73 cate resu LCS Rec. 85	.9 - 138 alt LCSD Rec 71 Ana Prep	8 49 lyzed By pared By	Rec. Limit 5 - 183 RG RG
ORO Percent recovery is base Surrogate n-Triacontane Laboratory Control S QC Batch: 52179 Prep Batch. 44743	LCS Result 84.9	267 the result. Result 71.3	mg/Kg 1 tPD is based of Units mg/Kg Date Analyzed QC Preparation Units	250 on the spike Dil. 1 : 2008-09 n: 2008-09	<6 and spi Spi Amo 10 3-09 3-08 Spik	.77 1 ike dupli ke ount 0	07 73 cate resu LCS Rec. 85	o.9 - 138 olt LCSD Rec 71 Ana Prep	8 49 lyzed By pared By	20 Rec. Limit 5 - 188
DRO Percent recovery is base Surrogate n-Triacontane Laboratory Control : QC Batch: 52179 Prep Batch. 44743 Param Chloride	LCS Result 84.9 Spike (LCS	267 ranke result. Result. 71.3 S-1) LCSD Result. 71.3 LCS Result. 98.3	mg/Kg 1 LPD is based of Units mg/Kg Date Analyzed QC Preparation Units mg/Kg	250 on the spike Dil. 1 : 2008-09 n: 2008-09	<6 and spi Amo 10 0-09 0-08 Spik Amoi 100	.77 1 ike dupli ke punt 0	07 73 cate resu LCS Rec. 85 Matrix Result <1.80	Ana Prep	8 49 lyzed By pared By	Rec. Limit 5 - 183 RG RG
•	LCS Result 84.9 Spike (LCS	267 ranke result. Result. 71.3 S-1) LCSD Result. 71.3 LCS Result. 98.3	mg/Kg 1 LPD is based of Units mg/Kg Date Analyzed QC Preparation Units mg/Kg	250 on the spike Dil. 1 : 2008-09 n: 2008-09	<6 and spi Amo 10 0-09 0-08 Spik Amoi 100	ike dupli ke punt 0	cate result Active Rec. B5 Matrix Result C1.80 cate resu	Ana Prep	8 49 lyzed By pared By	20 Rec. Limit 5 - 18. RG RG RG - 104
DRO Percent recovery is base Surrogate n-Triacontane Laboratory Control : QC Batch: 52179 Prep Batch. 44743 Param Chloride	LCS Result 84.9 Spike (LCS	267 tke result. R LCSD Result 71.3 5-1) LCS Result 98.3 tke result. R	mg/Kg 1 LPD is based of Units mg/Kg Date Analyzed QC Preparation Units mg/Kg	250 on the spike Dil. 1 : 2008-09 n: 2008-09 Dil. 1 on the spike	<6 and spi Spi Amo 10	ike dupli ke bunt 0	cate result Active Rec. B5 Matrix Result C1.80 cate resu	Ana Prep Rec. 98	8 49 lyzed By pared By	Rec. Limit 5 - 183 RG RG

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Matrix Spike (MS-1)

Spiked Sample. 172380

QC Batch 51953 Prep Batch 44548

Date Analyzed: QC Preparation:

2008-09-02

2008-09-02

Analyzed By: CM

Prepared By: CM

	MS			$_{ m Spike}$	Matrix		Rec.
Param	Result	Units	Dıl	Amount	Result	${ m Rec.}$	\mathbf{Limit}
TRPHC	202	mg/Kg	1	250	<1.06	81	10 - 354

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

	MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Lımıt
TRPHC	214	mg/Kg	1	250	< 1.06	86	10 - 354	6	20

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

Matrix Spike (MS-1)

Spiked Sample. 172379

QC Batch:

51972

Date Analyzed:

2008-09-02

Analyzed By: ER

Prepared By. ER

Prep Batch: 44568

QC Preparation:

2008-09-02

	MS			$_{ m Spike}$	Matrix		Rec
Param	Result	Units	D_1l	${f Amount}$	Result	Rec	${f Limit}$
MTBE	1 24	mg/Kg	1	1 00	< 0.00260	124	10.4 - 161 1
Benzene	1 11	mg/Kg	1	1.00	< 0.00347	111	42.9 - 130.7
Toluene	1 18	mg/Kg	1	1.00	< 0.00525	118	46.9 - 135.4
Ethylbenzene	1.32	${ m mg/Kg}$	1	1.00	< 0 00607	132	48.3 - 149.3
Xylene	3.95	mg/Kg	1	3 00	< 0.00724	132	48 8 - 150 9

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	$D_{1}l$	Amount	Result	Rec.	Limit	RPD	Limit
MTBE	1.12	mg/Kg	1	1 00	< 0.00260	112	10 4 - 161.1	10	20
Benzene	0.979	${ m mg/Kg}$	1	1 00	< 0.00347	98	42.9 - 130 7	12	20
Toluene	1 04	mg/Kg	1	1.00	< 0.00525	104	46.9 - 135.4	13	20
Ethylbenzene	1 14	${ m mg/Kg}$	1	1.00	< 0 00607	114	48.3 - 149.3	15	20
Xylene	3 39	mg/Kg	1	$3\ 00$	< 0.00724	113	48.8 - 150 9	15	20

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

	MS	MSD			$_{ m Spike}$	MS	MSD	Rec
Surrogate	Result	Result	Units	Dıl	Amount	Rec	${ m Rec.}$	$_{ m Limit}$
Trıfluorotoluene (TFT)	1 22	1.09	mg/Kg	1	1	122	109	63 2 - 128.3
4-Bromofluorobenzene (4-BFB)	$1\ 23$	1 10	${ m mg/Kg}$	1	1	123	110	61.5 - 161.2

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Matrix Spike (MS-1)	Spiked S	Sample 1	72376								
QC Batch: 51974			Date	Analyzed	. 2008-09	9-02			Ana	lyzed By	ER
Prep Batch. 44568				reparatio		9-02			Prep	ared By	ER
		MS	7			Coules	Ma	atrıx		1	Rec.
Param		Resu		Units	Dil.	Spike Amount		sult	Rec.		tec. imit
GRO		14.3		mg/Kg	1	10.0		.144	143	ı	- 155 8
Percent recovery is based	on the spi									10 0	
		MSD			Spike	Matrix		R	lec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec	Lı	mit	RPD	$_{ m Limit}$
GRO		14.6	mg/K	g 1	10 0	< 0 144	146	48.9	- 155 8	2	20
Percent recovery is based	on the spi	ke result.	RPD i	s based o	n the spike	and spike	duplicat	e result			
		MS	S 1	MSD		Ç	Spike	MS	MSD]	Rec
		_		. 1.	TT	Dıl. A		n.	n .	т	ımıt
		Resu		tesult	Units	DII. A	mount	Rec.	Rec		
Surrogate Trifluorotoluene (TFT)		1.36	6	1.34	mg/Kg	1	1	136	134	418	- 145.4
	-BFB)		6	1.34						418	- 145.4
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983		1.36	6 3 72374 Date A	1.34 1.84 Analyzed	mg/Kg mg/Kg 2008-09	1 1 9-02	1	136	134 184 Anal	41 8 50 3 yzed By	- 145.4 - 197.8
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1)		1.36 1.83	6 3 72374 Date A	1.34 1.84	mg/Kg mg/Kg 2008-09	1 1 9-02	1	136	134 184 Anal	41 8 50 3	- 145.4 - 197.8
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983		1.36 1.83	72374 Date A	1.34 1.84 Analyzed	mg/Kg mg/Kg 2008-09	1 1 9-02	1 1	136	134 184 Anal	41 8 50 3 yzed By ared By	- 145.4 - 197.8
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578	Spiked S	1.36 1.83 Sample. 1	6 3 72374 Date 2 QC Pr	1.34 1.84 Analyzed	mg/Kg mg/Kg 2008-09	1 1 3-02 3-02	1 1	136 183 1atrix Result	134 184 Anal	41 8 50 3 yzed By ared By	- 145.4 - 197.8 : MN MN
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578 Param		1.36 1.83 Sample. 1	72374 Date 2 QC Pr	1.34 1.84 Analyzed reparation	mg/Kg mg/Kg 2008-09 1 2008-09	1 1 0-02 0-02 Spike	1 1	136 183 Iatrix	134 184 Anal Prep	41 8 50 3 yzed By ared By	- 145.4 - 197.8 : MN MN
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578	Spiked S	1.36 1.83 Sample. 1 M: Res: 112	6 3 72374 Date A QC Pr	1.34 1.84 Analyzed reparation Units mg/Kg	mg/Kg mg/Kg 2008-09 1 2008-09 Dıl 1	1 1 9-02 9-02 Spike Amour 250	1 1 nt F	136 183 Iatrix Result 758	134 184 Anal Prep Rec. 145	41 8 50 3 yzed By ared By	- 145.4 - 197.8 : MN MN
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578 Param DRO	Spiked S	1.36 1.83 Sample. 1 M: Res: 112	6 3 72374 Date A QC Pr	1.34 1.84 Analyzed reparation Units mg/Kg	2008-09 1 2008-09 201 1 201 1 201 1 201 1	1 1 9-02 9-02 Spike Amour 250	1 1 Mut F	136 183 Astrix Result 758 te result	134 184 Anal Prep Rec. 145	41 8 50 3 yzed By ared By	- 145.4 - 197.8 : MN MN
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578 Param DRO	Spiked S	1.36 1.83 Sample. 1 Mr Res 112 ke result	6 3 72374 Date A QC Pr	1.34 1.84 Analyzed reparation Units mg/Kg s based of	mg/Kg mg/Kg 2008-09 1 2008-09 Dıl 1	1 1 3-02 3-02 Spike Amour 250 and spike	1 1 nt F duplicat	136 183 184 185 185 185 185 185 185 185 185 185 185	134 184 Anal Prepo Rec. 145	41 8 50 3 yzed By ared By	- 145.4 - 197.8 : MN MN Rec Limit 7 - 134
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578 Param DRO Percent recovery is based Param	Spiked S	1.36 1.83 Sample. 1 Mi Res 112 ke result MSD	72374 Date A QC Pr	1.34 1.84 Analyzed reparation Units mg/Kg s based of s Dil.	mg/Kg mg/Kg 2008-09 1 2008-09 1 1 n the spike	1 1 3-02 3-02 Spike Amour 250 and spike	1 1 nt F duplicat	136 183 184 185 185 185 185 185 185 185 185 185 185	134 184 Anal Prep Rec. 145	yzed By	- 145.4 - 197.8 : MN MN Rec Limit 7 - 134
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Trifluorotoluene (TFT) 4-Bromofluorobenzene (4- Matrix Spike (MS-1) QC Batch 51983 Prep Batch. 44578 Param DRO Percent recovery is based Param DRO	Spiked S on the spi on the spi	1.36 1.83 Sample. 1 Mi Res: 112 ke result MSD Result 1140 ke result.	72374 Date 2 QC Pr S ult 20 RPD 1 Unit mg/k RPD i	1.34 1.84 Analyzed reparation Units mg/Kg s based of s Dil. [g 1]	mg/Kg mg/Kg 2008-09 1 2008-09 Dil 1 n the spike Amoun 250	Spike Amour 250 and spike Matri: t Resul 758	duplicate Rec. 153 duplicate	fatrix tesult 758 Le result L 50 75 te result	134 184 Anal Prep Rec. 145 5.	41 8 50 3 yzed By ared By 50 RPD 2	- 145.4 - 197.8 : MN MN Rec Limit 7 - 134 RPD Limit 20

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

³Matrix spike recovery out of control limits due to peak interference

⁴Matrix spike recovery out of control limits due to peak interference

⁴Matrix spike recovery out of control limits due to peak interference

⁴Use LCS/LCSD to demonstrate analysis is under control

⁵Use LCS/LCSD to demonstrate analysis is under control

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

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

Report Date September 9, 2008 MEWBOU027PIT

Benzene

Toluene

Xylene

Ethylbenzene

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85 - 115

85 - 115

85 - 115

2008-09-02

2008-09-02

2008-09-02

2008-09-02

MEWBOU027PIT		,	Bradley 6 Fed	#1		Ес	ldy Cour	ity, NM
Matrix Spike (MS	-1) Spiked Sample	172380						
QC Batch: 52179		Date Anal	yzed 2008-0	9-09		Ana	lyzed By	. RG
Prep Batch. 44743		QC Prepa	•	9-08		Prep	ared By.	. RG
	Ν	ИS		Spike	Matrix		F	?ec
Param		sult Un		Amount	Result	Rec	1	ımit
Chloride	5	$76 ext{mg}$	'Kg 10	500	103 65	94	74.7	- 123 2
Percent recovery is b	ased on the spike resul	t. RPD is ba	sed on the spike	e and spike d	uplicate res	sult.		
	MSD		Spike	Matrix		Rec.		RPD
Param	Result		Dil Amount		Rec.	Limit	RPD	Limit
Chloride	608	mg/Kg	10 500	103.65		.7 - 123 2	5	20
Percent recovery is b	ased on the spike resul	t RPD is ba	sed on the spike	e and spike d	uplicate res	sult.		
Standard (ICV-1)								
QC Batch: 51953		Date Anal	yzed. 2008-09-	-02		Anal	yzed By	CM
		TON	TON	TOT.	17			
		$rac{ ext{ICVs}}{ ext{True}}$	ICVs Found	ICVs Percent	_	ercent	1	Date
Param Flag	g Units	Conc.	Conc.	Recovery		ecovery Limits	t .	alyzed
TRPHC	mg/Kg	100	97 1	97		0 - 120		8-09-02
Standard (CCV-1))							
QC Batch. 51953		Date Anal	yzed. 2008-09-	-02		Anal	yzed By	CM
		CCVs	CCVs	CCVs	P	Percent		
		True	Found	Percent	Re	ecovery	1	Date
Param Flag	~	Conc.	Conc.	Recovery	·]	Limits		alyzed
TRPHC	mg/Kg	100	104	104	81	0 - 120	200	8-09-02
Standard (ICV-1)								
QC Batch. 51972		Date Anal	lyzed 2008-09	-02		Ana	lyzed By	ER
		ICVs	ICVs	ICVs	1	Percent		
		True	Found	Percen		Recovery	J	Date
Param	Flag Units	Conc	Conc.	Recover		Limits		alyzed
MTBE	mg/Kg	0 100	0 103	103	*	35 - 115		8-09-02
D		0.100	0.101	101		DF 11F	000	0 00 00

mg/Kg mg/Kg

mg/Kg

mg/Kg

0 100

0 100

0.100

0 300

0.101

0.102

0.106

0 313

 $\begin{array}{c} 101 \\ 102 \end{array}$

106

104

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QC Batch. 51983

Report Date September MEWBOU027PIT	9, 2008		Vork Order: 808 Bradley 6 Fed.	Page Number: 14 of 15 Eddy County, NM							
Standard (CCV-1)											
QC Batch: 51972		Date Analy	yzed: 2008-09-	-02	Ana	yzed By: ER					
		CCVs	CCVs	CCVs	Percent						
		True	Found	Percent	Recovery	Date					
Param Flag	Units	Conc.	Conc	Recovery	Limits	Analyzed					
MTBE	mg/Kg	0 100	0.0927	93	85 - 115	2008-09-02					
Benzene	${ m mg/Kg}$	0 100	0.0929	93	85 - 115	2008-09-02					
Toluene	${ m mg/Kg}$	0.100	0.0938	94	85 - 115	2008-09-02					
Ethylbenzene	${ m mg/Kg}$	0.100	0.0924	92	85 - 115	2008-09-02					
Xylene	mg/Kg	0 300	0.288	96	85 - 115	2008-09-02					
Standard (ICV-1)											
QC Batch: 51974		Date Anal	yzed: 2008-09-	Anal	yzed By. ER						
		ICVs	ICVs	ICVs	Percent						
	True Fo		Found	Percent	Recovery	Date					
Param Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed					
GRO	mg/Kg	1.00	0 997	100	85 - 115	2008-09-02					
Standard (CCV-1)											
QC Batch 51974		Date Anal	yzed: 2008-09	-02	Ana	yzed By: ER					
		CCVs	CCVs	CCVs	Percent						
		True	Found	Percent	Recovery	Date					
Param Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed					
GRO	mg/Kg	1.00	1.12	112	85 - 115	2008-09-02					
Standard (CCV-1)											
QC Batch: 51983		Date Analy	yzed. 2008-09-	Analyzed By MN							
		CCVs	CCVs	CCVs	Percent						
		True	Found	Percent	Recovery	Date					
	Units	Conc.	Conc.	Recovery	Limits	Analyzed					
Param Flag	CILIOD				85 - 115	2008-09-02					

Date Analyzed 2008-09-02

Analyzed By MN

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Report Date September 9, 2008 MEWBOU027PIT

Work Order. 8082927 Bradley 6 Fed. #1 Page Number: 15 of 15 Eddy County, NM

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			CCVs	CCVs	CCVs	Percent	.
_			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	258	103	85 - 115	2008-09-02
Standard	(ICV-1)						
QC Batch.	52179		Date Ana	lyzed: 2008-09	9-09	Ana	yzed By. RG
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2008-09-09
Standard	(CCV-1)						
QC Batch	52179		Date Ana	lyzed: 2008-09	9-09	Ana	lyzed By. RG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-09-09

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

5002 Basin Street, Suite A11 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313

200 East Sunset Rd , Suite E 8808 Camp Bowie Blvd West, Scrie 180 Ft. Worth Texas 76116 Ft. Worth Texas 76116 Fex (915) 585-4944 Fax (915) 585-4944 Fax (817) 560-4336

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