



PHASE I AND PHASE II ENVIRONMENTAL SITE ASSESSMENT AND SITE RESTORATION REPORT RUNCO ACIDIZING AND FRACTURING COMPANY UTAH STREET AT NEW MEXICO HIGHWAY 18 JAL, LEA COUNTY, NEW MEXICO

Topical Report RSI-1815

by

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EXECUTIVE SUMMARY

RESPEC was retained by the Oil Conservation Division (OCD) of the Energy, Minerals and Natural Resources Department (EMNRD) of the State of New Mexico to perform a Phase I and Phase II Environmental Site Assessment (ESA) and Site Restoration of the property known as the RUNCO Acidizing and Fracturing Company site, located at the southwest corner of Highway 18 and East Utah Avenue in Jal, Lea County, New Mexico (hereafter referred to as "the subject property"). This ESA and site restoration were performed in a manner consistent with the methods and procedures described in the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.*

The objective of RESPEC's ESA was to determine whether current or past activities on or adjacent to the subject property may have resulted in significant contamination by hazardous materials or wastes, a condition referred to in this report as a "Recognized Environmental Condition."

The objective of the site restoration was to remove from the site any known tanks, contaminated soil, fluids, and debris identified during the ESA portion of the project.

RESPEC's scope of services for the Phase I and Phase II ESA and Site Restoration consisted of the following:

- An inspection of the subject property and nearby area.
- A review of historical information about activities on the subject property.
- A review of readily available regulatory information concerning the subject property and nearby properties of environmental concern.
- An investigation into the presence of asbestos-containing material (ACM) in the warehouse building.
- An investigation of the extent of total petroleum hydrocarbons (TPH), chloride, and total dissolved solids (TDS) in soil and groundwater beneath the subject property.
- An investigation to determine if groundwater had been impacted as a result of an on-site release or on-site operations.
- The decommissioning, decontamination, and removal of eleven aboveground storage tanks (ASTs) for recycling.

- The removal of contaminated soil, fluids, and debris for off-site disposal.
- The preparation of this report detailing RESPEC's results, conclusions, and recommendations.

The search radius distances for facilities of potential environmental concern in the vicinity of the subject property are in conformance with ASTM Standard E1527-00.

The subject property is located in the SW/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. An area map is presented as Figure 1 and a site map is presented as Figure 2.

Based on RESPEC's site inspection and review of available information, on-site sources that have created, or have the potential to create, a Recognized Environmental Condition, were identified on the subject property. These sources, identified during the ESA phase of the project, included:

- Eleven (11) large-capacity corroded steel aboveground storage tanks
- Solids and fluids of unknown composition in the aboveground tanks
- Hydrocarbon-stained surface soils
- Four (4) large debris piles of wood, steel, iron, and trash
- A large storage warehouse of unknown age and contents

Site restoration procedures were implemented for the above conditions after completion of the ESA, as required by the scope of work included in the contract for services.

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1.0 INTRODUCTION

RESPEC was retained in July 2004 by the Oil Conservation Division (OCD) to perform a Phase I ESA and Phase II Site Investigation and Site Restoration for the subject property, the former site of the RUNCO Acidizing and Fracturing Company, located at the southwest corner of NM Highway 18 and East Utah Avenue, in Jal, Lea County, New Mexico. The ESA was performed in a manner consistent with the methods and procedures described in the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessment: Phase I and Phase II Environmental Site Assessment Process* (Standard Designation E 1527-00), published in July 2000. Signatures of RESPEC personnel involved in the preparation of this report are included in Appendix A. The ESA and site restoration objectives and the scope of work are presented in the following sections.

1.1 PURPOSE

The purpose of the Phase I and Phase II ESA was to determine whether current or past activities on the subject property may have resulted in significant contamination by hazardous materials or regulated wastes, a condition referred to in this report as a "Recognized Environmental Condition." A Recognized Environmental Condition is defined in the ASTM Phase I Standard as:

"The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

1.2 SCOPE OF SERVICES

RESPEC's scope of services for the Phase I and Phase II ESA and Site Restoration consisted of the following:

- An inspection of the subject property and nearby area.
- A review of historical information about activities on the subject property.
- A review of readily available regulatory information concerning the subject property and nearby properties of environmental concern.
- An investigation into the presence of asbestos-containing material (ACM) in the warehouse building.
- An investigation of the extent of hazardous or regulated substances, including hydrocarbons (volatile and semivolatile), hydrocarbon constituents (volatile and semivolatile), and inorganic compounds (total dissolved solids, chlorides, and fluorides) in shallow subsurface and surface soils.
- An investigation of the nature and extent of groundwater contamination by completing four groundwater monitoring wells on the subject property.
- The decommissioning, decontamination, and removal of eleven aboveground storage tanks (ASTs) and one underground storage tank (UST), including all contents, for proper disposal and recycling.
- The removal and disposal of all hazardous and regulated substances and all debris and trash from the entire 1.82 acres.
- The preparation of this report detailing RESPEC's results, conclusions, and recommendations.

Search radius distances for facilities of potential environmental concern in the vicinity of the subject property are in conformance with ASTM Standard E1527-00.

2.0 SITE DESCRIPTION

Information concerning the subject property was obtained from a site inspection conducted by representatives of RESPEC and a review of the documents referenced in Section 7.0 of this report.

2.1 LOCATION AND LEGAL DESCRIPTION

The subject property (approximately 1.82 acres) is located in the SW/4 of Section 20, Township 25 South, Range 37 East, NMPM, in Jal, Lea County, New Mexico, at the southwest corner of the intersection of Utah Street and NM State Highway 18. A vicinity map is presented as Figure 1 and a site map is presented as Figure 2.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

Site and vicinity characteristics, including topography, geology, and hydrogeology, were evaluated on the basis of site observations, published literature, and maps.

The 1:24,000 scale topographic map for Jal, New Mexico, produced with the software package DeLorme Topo USA® 3.0, Southwest Region © 2001, shows the subject property at an elevation of approximately 3,030 feet above mean sea level. Depth to groundwater at the subject property is approximately 28 feet below ground surface (BGS) and has a gradient direction generally toward the southeast, as confirmed by monitoring well completions.

Regional geology of Lea County, in the area known as the "Llano Estacado" because of the flat-lying surface topography, includes Cenozoic deposits of sands and gravels. The base of the Cenozoic sediments marks the disconformity to Paleozoic sedimentary bedrock deposits of sandstones, shales, and limestones that are prolific oil and gas producers of the Permian Basin.

Monitoring well drilling revealed subsurface lithology at the subject property consisting of alluvial deposits overlying an approximate 25-foot layer of caliche. At the base of the caliche at approximately 27 feet BGS, the top of the Ogallala Formation was penetrated. The water-bearing Ogallala consisted of unconsolidated poorly graded sands and gravels in this area. Groundwater, with a southeasterly gradient, was encountered at approximately 28 feet BGS (see Figure 3. Groundwater Gradient Map).

2.3 CURRENT USE OF THE PROPERTY

The subject property is currently not being used. Anchor Drilling Fluids Company of Oklahoma City, Oklahoma, was contacted and indicated that the future use of the property would be supplying oilfield drilling mud from this location.

2.4 DESCRIPTION OF STRUCTURES

The subject property is an unpaved lot with one warehouse building and a loading dock.

2.5 ADJOINING PROPERTIES

RESPEC performed a visual inspection of readily visible areas of adjacent properties as well as a review of plat maps at the County Assessor's Office in order to document adjacent property owners. Appendix B lists all owners of adjacent properties and their addresses.

3.0 USER-PROVIDED INFORMATION

3.1 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

According to the Lea County Assessor's Office, the current owners of the subject property are Harold and Dorothy Runnels.

3.2 REASON FOR PERFORMING THE ESA

The client required the ESA to be implemented as the initial phase of the project, as outlined in the Scope of Work section of the contract.

4.0 SITE INSPECTION

Mr. Jorge Armstrong, a representative of RESPEC, conducted a site inspection on August 2, 2004. Weather conditions at the time of the inspection were mostly sunny, with a temperature of approximately 87°F. RESPEC's site inspection included a walking inspection of the subject property and adjacent and surrounding properties, and a windshield survey of the surrounding neighborhood. Photographs taken during RESPEC's site inspection are provided in Appendix C.

4.1 CURRENT USES OF THE PROPERTY

The subject property is currently vacant, without any commercial activity.

4.2 PAST USES OF THE PROPERTY

The subject property formerly housed an acidizing and fracturing plant. Eleven ASTs and an underground mixing tank were used for the production and storage of drilling mud and acidizing fluids.

4.3 SITE OBSERVATIONS

RESPEC's environmental professional noted that the ASTs on the subject property were extremely corroded, with evidence of spilled and leaking drilling mud fluids throughout the tank area. Soils with minor oil stains were observed between the two tank battery areas. Wind-blown trash, as well as numerous discarded items and other solid waste, was observed.

4.3.1 Hazardous Wastes

The laboratory tests conducted on the contents of the ASTs revealed exempt nonhazardous oil field waste. The laboratory results were certified by the OCD Hobbs District Office in Hobbs, New Mexico, as exempt nonhazardous oil field waste.

ACM was identified in the warehouse building during an ACM investigation of the subject property on August 17, 2004. The sheet vinyl flooring in the southwest office area was the only identified ACM. Abatement for the flooring will be necessary if the building is renovated or demolished. The complete report of the ACM investigation, complete with all laboratory results as well as conclusions and recommendations, is included in Appendix D of this report.

4.3.2 Underground/Aboveground Storage Tanks

Eleven ASTs—six steel-bolted 500-barrel tanks, four steel-bolted 250-barrel tanks, and one 4 ft. x 16 ft. mixing tank—were observed on the subject property. .An underground mixing tank with an estimated capacity of 25 barrels was located approximately 50 feet south of the warehouse building. All of the ASTs were observed to be full of exempt nonhazardous oil field waste with an estimated volume of 4,500 barrels. The 25-barrel UST was empty and dry.

4.3.3 Drums and Containers

No drums or containers were observed on the subject property.

4.3.4 Polychlorinated Biphenyl (PCB)-Containing Equipment

No PCB-containing equipment was observed on the subject property at the time of the inspection.

4.3.5 Solid Waste

Four large piles of scrap metal (an estimated 5,000 to 6,000 pounds), wind-blown trash and numerous discarded items, and other solid waste, such as discarded pallets, concrete rubble, and piping, were observed on the subject property.

4.3.6 Liquid Waste

No liquid waste was observed on the subject property.

4.3.7 Drains and Sumps

No drains or sumps were observed on the subject property during the site inspection.

4.3.8 Wastewater

No wastewater or wastewater treatment systems were observed on the subject property during the site inspection.

4.3.9 <u>Wells</u>

No water wells were observed on the subject property.

4.3.10 Pits, Ponds, and Lagoons

No pits, ponds, or lagoons were observed on the subject property.

4.3.11 Other Physical Evidence of Contamination (If Any)

Oil-stained surface soil was observed between the tank batteries.

5.0 HISTORIC SITE AND SURROUNDING PROPERTY CONDITIONS

5.1 AERIAL PHOTOGRAPHS

RESPEC reviewed six available aerial photographs of the town of Jal, New Mexico, filed at the University of New Mexico Earth Data Analysis Center (UNM/EDAC). The following aerial photographs can be viewed in Appendix E:

- 1949 aerial photograph (good quality): The subject property is developed with several large buildings. The ASTs are not present on the subject property. Residential development can be seen east and west of the subject property, and the Jal High School football field can be seen west of the site.
- 1955 aerial photograph (fair quality): The buildings observed in the 1949 photograph appear to be gone. The residential area to the east appears to have grown larger.
- 1968 aerial photograph (good quality): New buildings and ASTs are now visible on the subject property; however, the ASTs appear to be south of the ASTs addressed in this report. Increased commercial and residential development is observed throughout the town of Jal.
- 1977 aerial photograph (poor quality): The subject property and surrounding areas appear about the same as in the 1968 photograph.
- 1986 aerial photograph (poor quality): The photograph is too poor for any observations to be made.
- 1996 aerial photograph (good quality): The current warehouse, loading dock, and ASTs can be seen on the subject property. The previous ASTs observed in the 1968 photograph are now gone or moved.

6.0 REGULATORY AGENCY REVIEW

6.1 REVIEW OF ENVIRONMENTAL DATABASES

RESPEC reviewed information gathered from several environmental databases through Environmental Data Resources, Inc. (EDR) to determine whether activities on or near the subject property have the potential to create a Recognized Environmental Condition on the subject property. EDR reviews databases compiled by federal, state, and local governmental agencies. EDR's database report is included as Appendix F.

The information obtained from the databases searched is summarized in Sections 7.2 through 7.5.

6.2 SUBJECT PROPERTY

The subject property was not found in EDR's search of available government records, which would identify it as having a preexisting or known environmental condition.

6.3 DATABASES SEARCHED WITH NO MAPPED SITES FOUND

No mapped sites were found in EDR's search of available government records, either on the subject property or within the ASTM E 1527-00 search radius (one mile) for the following databases:

FEDERAL ASTM STANDARD

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
CERCLIS .Comprehensive Environmer Information System	ntal Response, Compensation and Liability
CERC-NFRAP CERCLIS	No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRIS-TSD Resource Cor	nservation and Recovery Information System
RCRIS-LQG	nservation and Recovery Information System
RCRIS-SQG Resource Cor	nservation and Recovery Information System
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

SHWS This state does not maintain a SHWS lis	t. See the Federal CERCLIS list.
SWF/LF	Solid Waste Facilities

FEDERAL ASTM SUPPLEMENTAL

CONSENT	
ROD	
Delisted NPL	National Priority List Deletions
FINDSFacil Report	ity Index System/Facility Identification Initiative Program Summary
HMIRS	Hazardous Materials Information Reporting System
MLTS	
MINES	
NPL	Liens Federal Superfund Liens
PADS	PCB Activity Database System
RAATS	RCRA Administrative Action Tracking System
TRIS	
TSCA	
	TSCA Tracking System – FIFRA (Federal Insecticide, Fungicide, ide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST Aboveground Storage Tanks List

Unmapped (orphan) sites are not considered in the foregoing analysis.

6.4 DATABASES SEARCHED WITH MAPPED SITES FOUND

Seven mapped sites were found in EDR's search of available government records within the ASTM E 1527-00 search radius around the subject property, for the following databases:

LUST	Leaking Underground Storage Tank Priorization Database
UST .	Listing of Underground Storage Tanks
STATE	E OIL/GAS WELL INORMATION Listing of Oil and Gas Wells

There are 109 oil and gas production wells within a one-mile radius of the subject property. The EDR report indicates shallow oil and gas production from 510 feet to 3,100 feet below surface grade (BSG).

6.5 ORPHAN SITES

RESPEC reviewed the list of orphan sites, which are sites that have not been geocoded because of a lack of sufficient data regarding their exact location within the general area. The review of the list of orphan sites did not identify any properties that might create a potential Recognized Environmental Condition on the subject property.

7.0 PHASE II INVESTIGATION

7.1 HORIZONTAL AND VERTICAL EXTENT OF SOIL CONTAMINATION

Elevated chloride, relative to site background levels (estimated to be between 20 and 275 milligrams per kilogram (mg/kg), based on multiple sample points on the subject property), was discovered in soil samples collected during trenching and soil-boring activities at the subject property. The soil samples collected for laboratory analysis from Excavation #3 and Excavation #4 and from Soil Boring SB/MW-1 (5,790 mg/kg, 1,800 mg/kg, and 1,610 mg/kg, respectively) had chloride concentrations greater than background levels (see Figure 2 for trench and soil boring locations). There was evidence of hydrocarbon contamination in some surface-stained soils between the tank batteries; however, there was no evidence of vertical migration from any of the soil samples collected from the trenches or soil borings.

The horizontal and vertical extent of hydrocarbon contamination of soil in the vadose zone was delineated on site by correlation of head space analysis with a portable photoionization detector (PID) unit and laboratory analysis by Environmental Protection Agency (EPA) Method 418.1 for gasoline range organics (GRO) and diesel range organics (DRO). The laboratory results and chain of custody for all soil samples can be found in Appendix G.

The vertical extent of elevated chloride concentrations in the vadose zone was delineated by laboratory analysis (EPA Method 300E). Soil samples collected from SB-1, SB-2, SB-3, and SB-4 at approximately 30 feet BSG had chloride levels of

107 mg/kg, 121 mg/kg, 90.1 mg/kg, and 275 mg/kg, respectively. These concentrations fall within the background levels for the subject property.

Attached are the boring/lithology logs for the four groundwater monitoring wells, which were advanced into the subsurface during the Phase II Investigation (see Appendix H). The subsurface lithology is fairly consistent throughout the investigation area and is basically as follows:

- <u>0-5 feet BSG</u>: Tan, sandy loam (dry to moist)
- <u>5-27 feet BSG</u>: Hard caliche with minor sand and gravels (dry)
- <u>27-40 feet BSG</u>: Light brown unconsolidated poorly sorted sands interbedded with clayey silt (moist to saturated)

7.2 EXTENT OF GROUNDWATER CONTAMINATION

The Phase II Investigation conducted at the subject property included the installation of four groundwater monitoring wells. The four newly installed wells (MW-1, MW-2, MW-3, and MW-4) were purged and sampled for laboratory analysis during the course of the investigation.

The wells were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE); and ethylene dichloride (EDC) by EPA Method 8021B; for polynuclear aromatic hydrocarbons by EPA Method 8270C; for Resource Conservation and Recovery Act (RCRA) metals by EPA Method 6010B; for major cations and anions; for cation/anion balance; and for general chemistry—total dissolved solids (TDS) and total nitrate/sulfate. A quick-look sheet of aqueous laboratory results is located in Appendix G along with the original laboratory reports and chains of custodies.

There was no evidence of hydrocarbon contamination in any of the groundwater monitoring wells. However, there was evidence of slightly elevated inorganic compounds of TDS, chloride, and fluoride in all wells (see Figure 4 for anion, cation, and TDS concentrations in groundwater). It is unknown if these levels are related to any past activity on the subject property or may be present regionally in the aquifer.

MW-1, MW-2, MW-3, and MW-4 were all completed to a total depth of approximately 40 feet, with a 15-foot screened interval from 40 feet to 25 feet BSG.

(These completion depths and screen intervals are approximations. Please see soil boring logs with well completion diagrams in Appendix H for exact specifications).

7.3 HYDROLOGY/GROUNDWATER CHARACTERISTICS

The Phase II Investigation revealed the groundwater aquifer at approximately 28 feet BGS. The four monitoring wells (MW-1, MW-2, MW-3, and MW-4) were completed for groundwater observation, including static water level measurements, the potentiometric surface from the survey, and water quality analysis.

Water level measurements and survey results are included in Appendix I. Monitoring well measurements were established by placing a permanent mark on the north rim of each well casing, and measurements were taken with an electronic water level instrument. Water level measurements from below the top of the well casing were as follows:

- MW-1: 29.55 feet
- MW-2: 29.78 feet
- MW-3: 24.70 feet
- MW-4: 26.91 feet.

A survey was performed by a registered land surveyor, for determination of x, y, and z coordinates at the top of the well casings for MW-1, MW-2, MW-3, and MW-4. The Groundwater Gradient Map (Figure 3) indicates that the groundwater has an average gradient of 0.02 foot/foot in a southeasterly direction (S42°E).

8.0 SITE RESTORATION ACTIVITIES

8.1 AST AND UST DECOMMISSIONING, DECONTAMINATION AND RECYCLING

The decommissioning, decontamination, and recycling of the eleven ASTs and one UST were initiated after the development of the scope of work, design criteria, subcontractor team formation, construction/remedial action timeline, and project cost. The scope of work included the following:

- A work plan was prepared, which included the design criteria, reconnaissance of the site, cost estimates, formation of a subcontracting team, and a prejob conference with the OCD project manager.
- A site-specific health and safety plan (HASP) was completed before the start-up of fieldwork. The HASP included the following: a site information summary; a list of key personnel on site and their responsibilities; a list of site hazards; emergency information; a job hazard assessment; and procedures for decontamination and disposal, employee training, and emergencies. On-site safety meetings included weekly "tailgate" meetings, with all workers in attendance.
- Before the start-up of on-site field activities, RESPEC called the New Mexico One Call System to locate, mark, and map all buried pipelines and utilities at the subject property. A New Mexico One Call log was kept and updated throughout the duration of the project.
- Crain Hot Oil Service (Crain) personnel mobilized to the subject property on a daily basis for the duration of the project. All fluids and solids were removed from eleven ASTs and one UST located throughout the subject property (Figure 2). The tanks ranged in size from 210-barrel capacity to 500-barrel capacity. Crain provided a hot oil unit, trans-vac units, and all appurtenances for removal and disposal of tank contents. All fluids and solids were removed to Sundance Services Inc. (Sundance), an OCD-permitted disposal facility for exempt non-hazardous oilfield waste. Crain then triple-rinsed all the tanks to inert them for removal from the subject property and recycling. All triple-rinse fluids were removed to Sundance. The RESPEC project manager oversaw all operations and tracked all transport disposal manifests and disposal certifications.
- Crain performed a naturally occurring radioactive materials (NORM) survey of all pipes, tanks, and miscellaneous equipment before disposal or recycling. This task was ongoing throughout the demolition and disposal activities at the subject property. All empty tanks were inspected and surveyed internally before demolition and surveyed externally before disposal or recycling. A registered NORM surveyor performed the survey in accordance with 19.15.9.714 New Mexico Administrative Code (NMAC) and 20.3.14 NMAC.
- All twelve tanks (including the UST) were removed from the site and recycled. Crain provided a shear for on-site crushing and provided all necessary transportation of material to Hobbs Iron Works in Hobbs, New Mexico, for recycling. In addition, Crain removed and recycled other iron and metal objects

from the site. The RESPEC project manager oversaw these operations, including tank testing, to ensure that tanks were inerted, and provided tank death certificates.

• A total of 4,500 barrels of exempt non-hazardous oil field waste (solids and fluids) was removed from the subject property for disposal at Sundance.

8.2 OTHER SITE RESTORATION ACTIVITIES

All trash and debris piles were removed and properly disposed of or recycled. Approximately 5,000 pounds of refuse was hauled to Lea County Landfill in Eunice, New Mexico.

9.0 CONCLUSIONS

RESPEC conducted a Phase I and Phase II ESA and Site Restoration in conformance with the scope and limitations of ASTM Practice E 1527-00. The subject property (approximately 1.82 acres) is located in the SW/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, at the intersection of Utah Street and NM State Highway 18. The purpose of this assessment was to evaluate the potential for a Recognized Environmental Condition to exist on the subject property from on-site or off-site activities. RESPEC's conclusions are presented below.

9.1 ON-SITE RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on RESPEC's review of available information and its site inspection, on-site sources that have created, or have the potential to create, a Recognized Environmental Condition on the subject property, were identified. The term *Recognized Environmental Condition* refers to the effects of hazardous substances or petroleum products even under conditions in compliance with state laws.

Elevated chloride, relative to site background levels (estimated to be between 20 mg/kg and 275 mg/kg, based on multiple sample points on the subject property), were discovered in soil samples collected during trenching and soil boring activities at the subject property. The soil samples collected for laboratory analysis from Excavation #3 and Excavation #4 and SB/MW-1 (5,790 mg/kg, 1,800 mg/kg, and 1,610 mg/kg, respectively) had chloride concentrations greater than background levels (see Figure 2

for trench and soil boring locations). There was evidence of hydrocarbon contamination in some surface-stained soils between the tank batteries; however, there was no evidence of hydrocarbon contamination in any of the soil samples collected from the trenches or soil borings.

Eleven ASTs were observed on the subject property. There were six steel-bolted 500-barrel tanks, four steel-bolted 250-barrel tanks, and one 4 ft. x 16 ft. mixing tank. One underground mixing tank with an estimated capacity of 25 barrels was located approximately 50 feet south of the warehouse building. All the ASTs were observed to be full of exempt non-hazardous oil field waste with an estimated volume of 4,500 barrels. The 25-barrel UST was empty and dry.

Four large piles of scrap metal (an estimated 5,000 to 6,000 pounds), wind-blown trash and numerous discarded items, and other solid waste, such as discarded pallets, concrete rubble, and piping, were observed on the subject property. The waste material was removed from the subject property for off-site disposal.

ACM was identified in the warehouse building during an ACM investigation of the subject property on August 17, 2004. The sheet vinyl flooring in the southwest office area was the only identified ACM. Abatement for the flooring will be necessary if the building is renovated or demolished. The complete report of the ACM investigation, complete with all laboratory results as well as conclusions and recommendations, is included in Appendix D of this report.

The restoration activities at the subject property included the removal and disposal of approximately 4,629 barrels of exempt non-hazardous oil field waste (solids and fluids) for off-site disposal. All the ASTs and the UST (12 tanks) were decontaminated, dismantled, and taken off site for recycling.

9.2 OFF-SITE RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on RESPEC's review of available information, no off-site Recognized Environmental Conditions were identified.

10.0 RECOMMENDATIONS

A Recognized Environmental Condition was identified at the subject property; however, based on the results of RESPEC's Phase I and Phase II Environmental Site Assessment, RESPEC recommends that no further action (NFA) status be granted for the following reasons:

- All the exempt non-hazardous oil field waste (4,629 barrels) was removed from the subject property.
- All the ASTs and the UST (12 tanks) were decontaminated, dismantled, and taken off site for recycling.
- If the warehouse building is renovated or demolished, abatement for the flooring containing ACM will be required.
- There was no evidence of significant hydrocarbon contamination in soil or groundwater at the subject property.
- Although elevated chloride levels in soil, compared to background levels on the subject property, were determined by laboratory analysis, the contamination is not believed to be significant enough to have impacted the groundwater (relatively low chloride levels were observed at 30 feet BSG in all soil borings).
- Elevated inorganic compounds such as chloride, fluoride, and TDS were observed in the groundwater; however, the levels are consistent with the shallow-perched aquifer in this area. Within one mile of the subject property there are 109 oil production wells, which may have potentially contributed to the elevated anions and TDS observed in the regional shallow groundwater. This finding would be consistent with shallow groundwater impacts throughout the Permian Basin of southeastern New Mexico.

11.0 LIMITATIONS

11.1 LIMITING CONDITIONS

RESPEC's site inspection was a walking inspection of areas that were accessible by foot, and a drive-by inspection of surrounding and adjacent properties, including those properties identified in the environmental database search. No conditions that would

limit RESPEC's ability to complete the scope of work were encountered during the performance of the Phase 1 and Phase II ESA.

11.2 LIMITATIONS OF THE ASSESSMENT

The Phase I and Phase II ESA was prepared in accordance with the scope of services described in Section 2.2. The work conducted by RESPEC is limited to the services upon which RESPEC and the OCD agreed, and no other services beyond those explicitly stated should be inferred or are implied.

The conclusions presented in this report are professional opinions based solely upon RESPEC's visual observations of the site and the immediate site vicinity, and upon RESPEC's interpretations of the readily available historical information, conversations with personnel knowledgeable about the site, and other readily available information, as referenced in the report. These conclusions are intended exclusively for the purpose stated herein, at the site indicated, and for the project indicated.

The environmental database information is reported as RESPEC received it from EDR, which in turn reports information as it is provided in various government databases. It is not possible for either RESPEC or EDR to verify the accuracy or completeness of information contained in these databases. However, the use of and reliance on this information is a generally accepted practice in the conduct of environmental due diligence.

It is agreed that the information provided by RESPEC is for the exclusive use of the OCD. The scope of services performed during this investigation may not be appropriate for other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

This study was not intended to be a definitive investigation of contamination at the subject property. The purpose and scope of this investigation was to determine if there is reason to suspect the possibility of contamination at the site. Other than as discussed in this report, no additional exploratory borings, soil or groundwater sampling, or laboratory analyses were performed at the property; therefore, the conclusions set forth herein are made without the benefit of such additional investigation.

This report is intended for use in its entirety. No excerpts may be taken to be representative of the findings of this assessment.

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of RESPEC's site visit and to those reasonably foreseeable. They cannot necessarily apply to conditions and features of which RESPEC is unaware and which RESPEC has not had the opportunity to evaluate.

12.0 REFERENCES

American Society for Testing and Materials (ASTM). Standard E 1527-00, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, May 2000.

DeLorme Topo USA® 3.0, Southwest Region © 2001. 1:24,000 scale topographic map for Eunice, New Mexico.

Environmental Data Resources, Inc. October 22, EDR-Radius Map with Geocheck, CR 33 & Hwy 8, Eunice, New Mexico, Inquiry Number 0825932.1r.

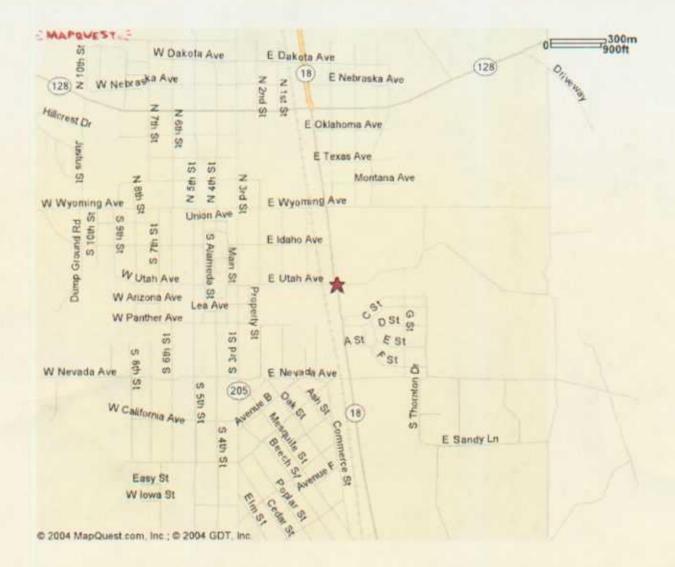
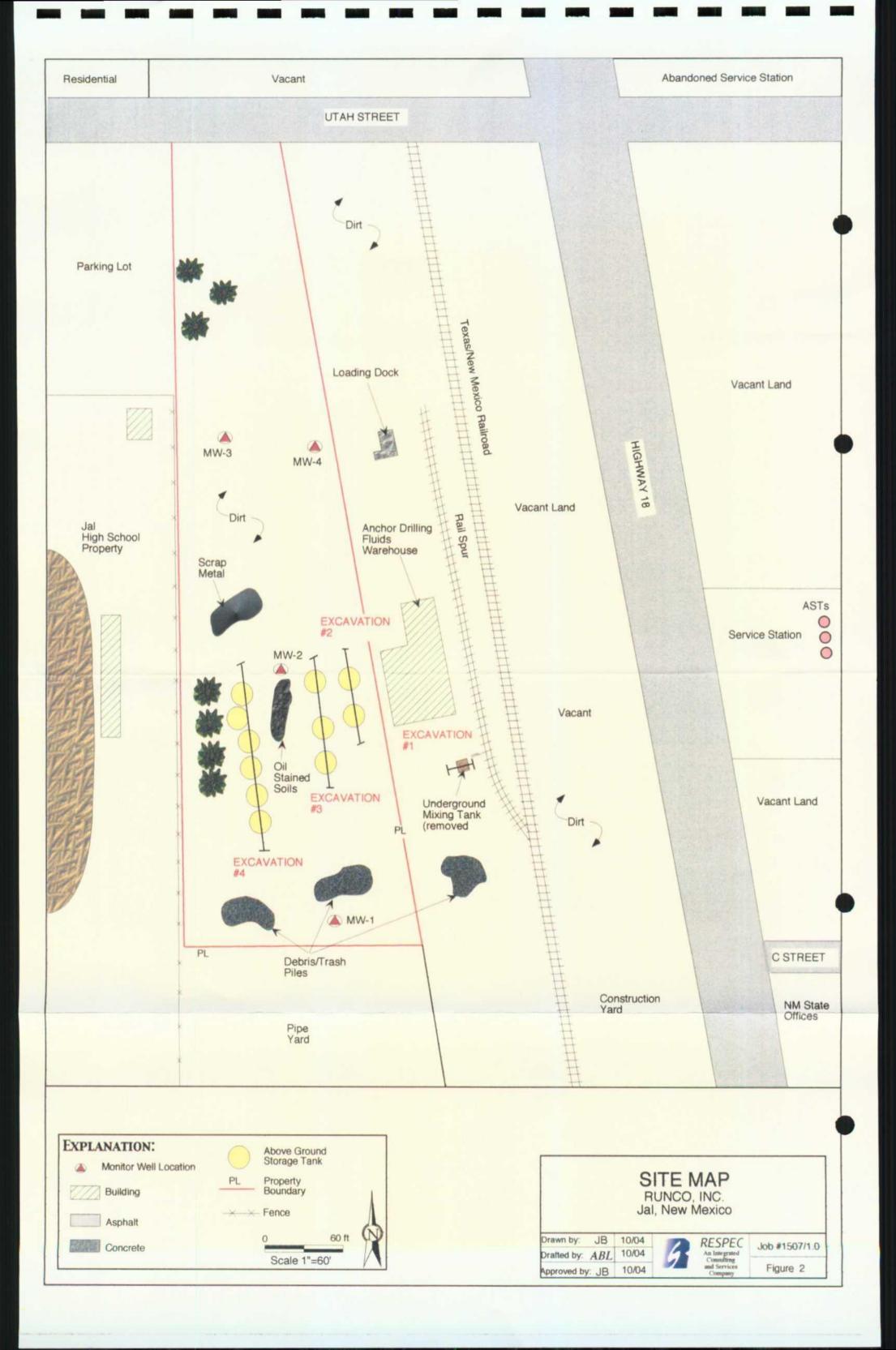
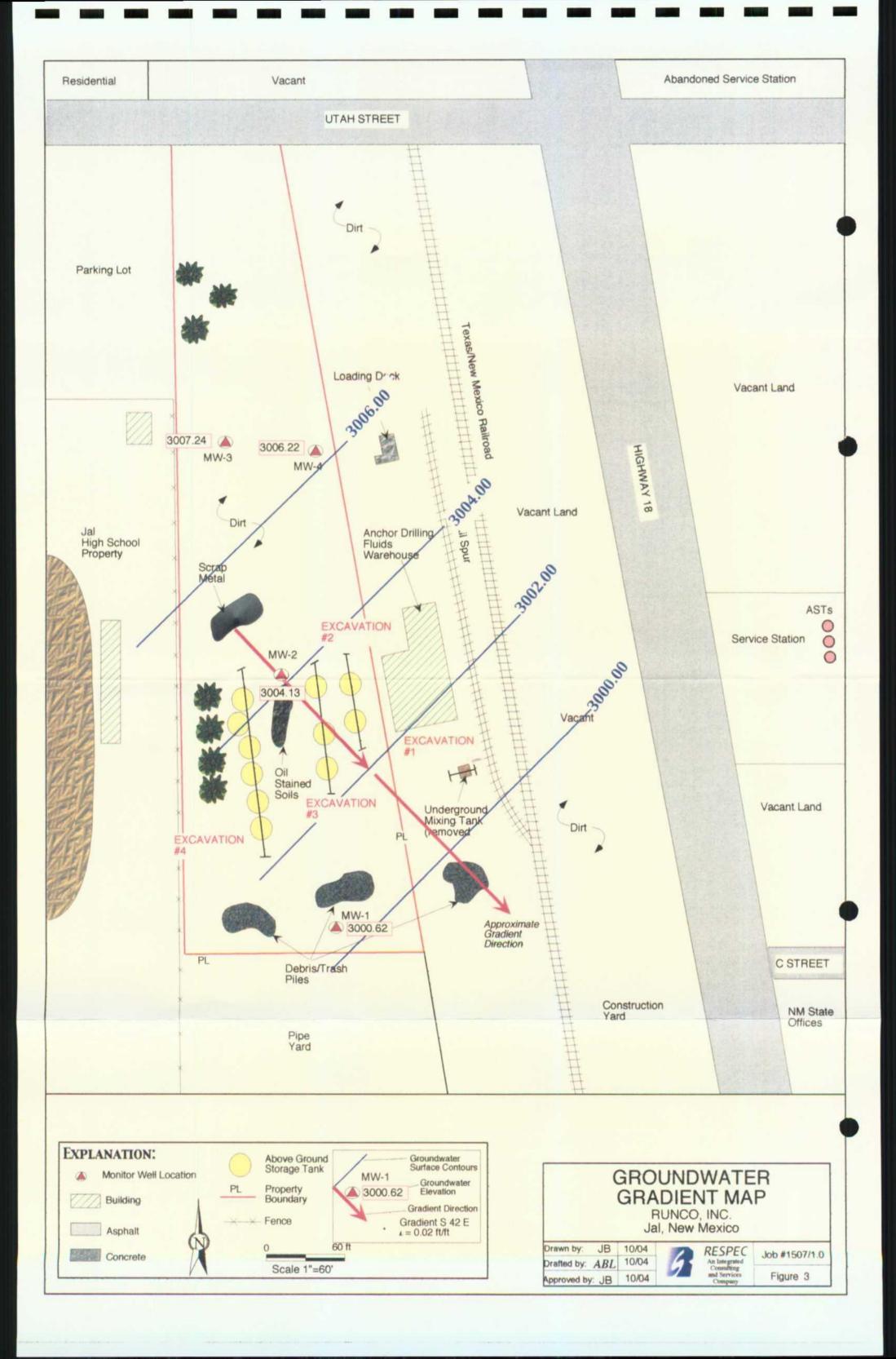
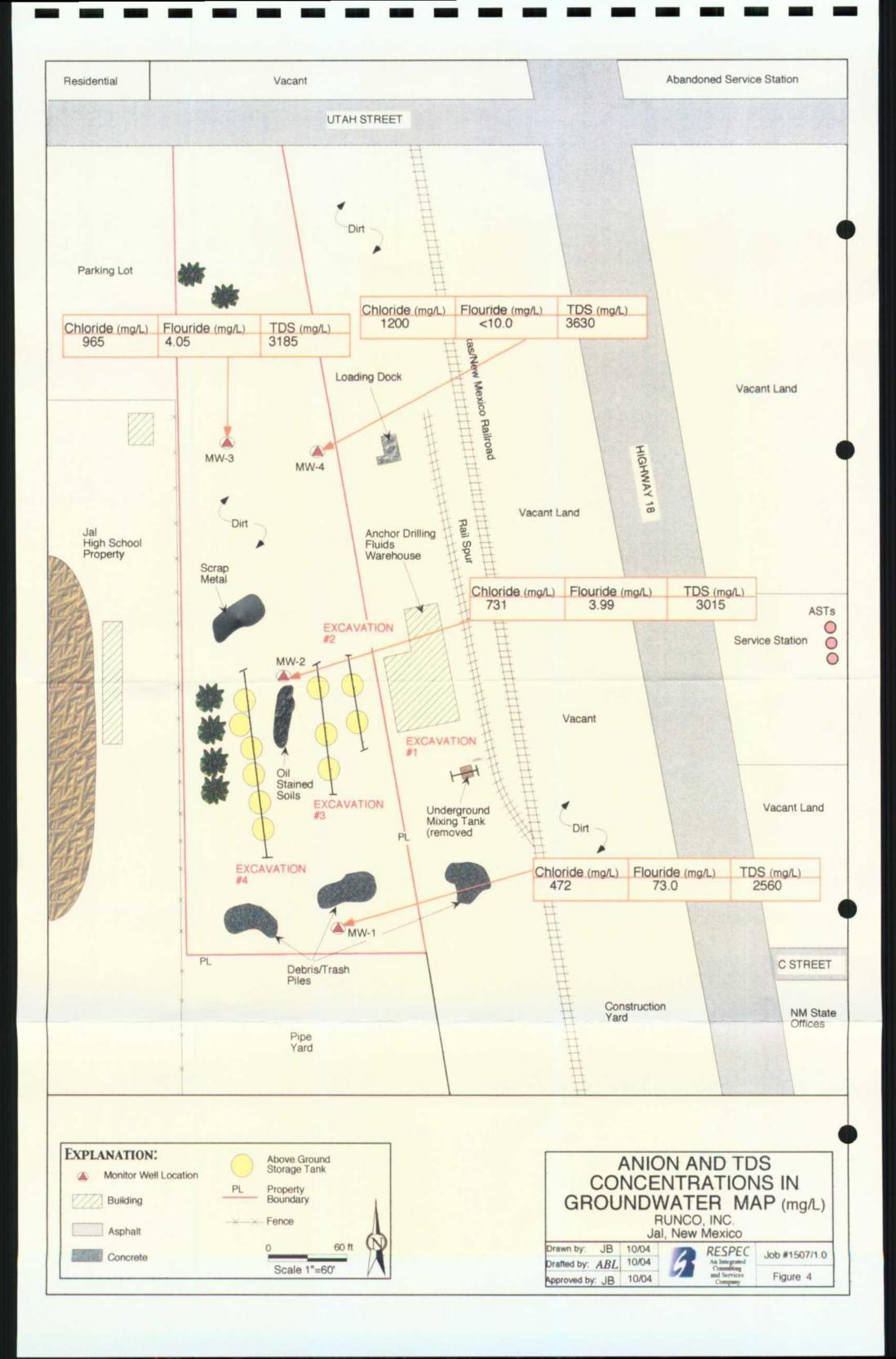


FIGURE 1: VICINITY MAP







APPENDIX A

SIGNATURES OF RESPEC PERSONNEL

Signatures of RESPEC environmental professionals involved in the preparation of this report:

Lohn D

John R. Bunch, PG Project Geologist

AThere

David A. Henard ' Manager, Environmental Department

APPENDIX B

LIST OF OWNERS OF ADJACENT PROPERTIES

APPENDIX B

Adjacent Property Owners List

1) (West) Anchor Drilling Fluids USA, Inc.

Warehouse: 320 S. Highway 18 PO Box 1061 Jal, NM 88252 Phone 505-395-2849

Permian Basin Division, Regional Office: 12701 W. Country Road #133 PO Box 60878 Midland, TX 79711-0878 Phone 432-561-5661 Fax 432-561-5661 Email <u>adfmidland@anchorusa.com</u> Web <u>www.anchorusa.com</u>

- 2) (East) Jal Public Schools 105 East Utah Avenue P.O. Box 1386 Jal, NM 88252 Phone 505-395-2101 Fax 505-295-2146
- 3) (South) Merrryman Construction Co Highway 18 S Jal, NM Phone 505-395-3110
- 4) (North) Unknown Gilbert Martinez City of Jal Environmental Officer 505-395-3340

APPENDIX C

SITE PHOTOGRAPHS

Site Before Tank/Debris Removal



Former Anchor Office at Site



Gang Truck and Backhoe/Loader



Safety Trailer



Hot-Oil Truck



Temporary Muck Pile

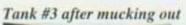


Temporarily placing tank muck on concrete pad (Tank #4)



Tank #4 after mucking out bottom







Tank #5 footprint (after removal of tank)

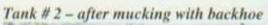


Tank footprint adjacent to Tank #5 (former tank location)



Tank #2 - removing side panels







Tank #3 after cleaning



Scrapped tanks to be removed to Sundance



Using torch to cut off top portion of tank



Tank #8 after removing top portion of tank

1



Muck pile remaining on site



Scrap metal needing to be cut up and hauled off site



Excavation exposing underground mixing tank



Excavating underground mixing tank



Underground mixing tank



Tank removed from ground



Tank pit - no soil staining observed



View toward Jal High School after restoration



View toward Utah Avenue after restoration



APPENDIX D

ASBESTOS INVESTIGATION REPORT

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ASBESTOS INVESTIGATION OF STRUCTURES AND PIPING ON THE OCD RUNCO PROJECT SITE

> NEW MEXICO HIGHWAY 18 AND EAST UTAH STREET JAL LEA COUNTY, NEW MEXICO

,

PREPARED FOR: NEW MEXICO OIL CONSERVATION DIVISION

> PREPARED BY: RESPEC

SEPTEMBER 17, 2004 PROJECT NO. 1507-1.0

ASBESTOS INVESTIGATION OF STRUCTURES AND PIPING ON THE OCD RUNCO PROJECT SITE

NEW MEXICO HIGHWAY 18 AND EAST UTAH AVENUE JAL LEA COUNTY, NEW MEXICO

SUBMITTED TO:

NEW MEXICO OIL CONSERVATION DIVISION 1220 SOUTH SAINT FRANCIS DRIVE SANTA FE, NEW MEXICO 87505

SUBMITTED BY:

RESPEC 4775 INDIAN SCHOOL ROAD, NE SUITE 300 ALBUQUERQUE, NM 87110

SEPTEMBER 17, 2004

L. E. Archamboult, RHSP Certified Asbestos Inspector Certification # 031904-07 (certificate expiration date 03/21/05}

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Attachment 4	Asbestos Sampling Site Photographs
Attachment 5	Asbestos Chain-of-Custody Forms and Laboratory Reports

1.0 INTRODUCTION

RESPEC Environmental (RESPEC) was retained by the New Mexico Oil Conservation Division (OCD) to conduct an asbestos inspection with sampling of the structures and piping located on an acidizing and refracturing site that is to be remediated. With the exception of the warehouse building and the loading dock structure, the remaining tanks, structures, and piping on the site are to be demolished and removed. The site, known as the RUNCO Project site, is located on the west side of New Mexico State Highway 18 (NM 18) at the intersection of NM 18 and East Utah Avenue in Jal in Lea County, New Mexico.

The asbestos inspection and sampling were conducted to satisfy the pre-demolition/renovation requirements of the asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP). The project manager for RESPEC was Ms. Lucy Archamboult, certified asbestos inspector/management planner (Inspection Certification Number 031904-07 and Management Planner Certification Number 031904-16).

2.0 SCOPE OF WORK

The purpose of the asbestos inspection and sampling was to establish the presence or absence of asbestos in suspect materials and to identify the quantity, class, and condition of those materials. Knowledge of the presence and condition of the asbestos-containing materials (ACMs) and the overall condition of the materials and the structures they are in or on will allow the development of an abatement plan for the ACMs, the completion of a pre-renovation/demolition notification, and the development of a demolition plan with appropriate personal and public protection measures if the ACMs cannot be abated prior to demolition.

The following steps were to be used to complete the project:

- Develop a site asbestos inspection, sampling, and analysis plan based on information provided by OCD and site visits by RESPEC personnel prior to the project bid.
- Conduct a site inspection to establish the actual number of asbestos samples to be taken and the asbestos sampling locations.
- Sample the suspect materials in accordance with the inspection, sampling, and analysis plan.
- Evaluate the results of the laboratory analyses.
- Prepare a report of the findings and recommendations.





An estimated 20 bulk samples were to be taken and analyzed for asbestos by polarized light microscopy (PLM) in accordance with 40CFR763 Subpart F, Appendix A. Laboratory analysis was to be done with an extended turn-around time, guaranteed 15 working days from laboratory receipt of the samples.

The inspection and sampling were conducted and completed on Tuesday, August 17, 2004, by Ms. Archamboult. A total of 26 samples were taken.

The asbestos results were to be verbally reported to Mr. Dave Henard of RESPEC on August 24, 2004. The only material that may require abatement is the sheet vinyl flooring in the southwest office area. Abatement is required only when the area is to be renovated or if the building is to be demolished. No arrangements for the abatement of the flooring. This asbestos investigation report will be included in the RESPEC project report to OCD.

3.0 LIMITATIONS

This report has been prepared for the exclusive use of RESPEC on behalf of OCD to support proposed renovation/demolition activities at the subject property. Any other use of the report may be inappropriate. All work has been performed in accordance with generally accepted environmental assessment practices. No warranty is expressed or implied.

The asbestos investigations were conducted based on observations of the investigator at the time of the site visits, on information from individuals familiar with asbestos regulations, and on information from individuals familiar with the site. The investigation was conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines. Unless contradicted by conflicting data obtained independently during the conduct of the work, all information obtained has been accepted at face value. Information from interviews or from the independent laboratory may be inaccurate and/or incomplete. The information and conclusions in this report are subject to the accuracy, completeness, and availability of such data.

A not-to-scale site plan was developed from the zoning plat and legal description provided to RESPEC by OCD. The site plan is provided in Attachment 1. The square and linear footage of materials were calculated from measurements taken on site. An estimate was made of the square footage of tank surfaces that were coated with bituminous material. Because of the tank locations within debris piles, accurate measurements could not be made. Two of the materials sampled were in chunks or were powder. An estimate of cubic feet of these materials was made. A linear or square foot designation was not appropriate for these materials.

The number of suspect materials sampled and analyzed for asbestos was based on the AHERA sampling guidelines as described in the Inspection, Sampling, and Analysis Plan developed for this project (Attachment 2). The NESHAP pre-renovation/demolition inspection regulations require, but do not define, thorough inspection and sampling. RESPEC believes that the

AHERA guidelines provide a reliable definition of thorough inspection and sampling that is suitable for NESHAP work. Those guidelines were followed for this project.

Implementation of any recommendations contained in this report does not ensure that all environmental risks will be eliminated or that all legal obligations will be met.

4.0 ASBESTOS INVESTIGATION

4.1 Introduction and Background

The exact construction dates of the various structures in not known. The structures on the site include:

- Three debris piles containing tanks, piping, and concrete.
- A 50-foot by 98.6-foot warehouse building with an approximately 48-foot by 57-foot covered parking area. The building had two office spaces in the north and southwest corners of the building. The southwest space was divided into an office, a restroom, a storage room, and a hallway connecting the three rooms.
- A 19-foot by 20-foot by 6-foot high loading dock with a ramp.

The building and loading dock were adjacent to the railroad tracks the parallel the eastern boundary of the site. Debris Pile 1 was near the southwest corner of the site. Debris Pile 2 was off the southwest corner of the building. Debris Pile three was near the western property boundary off the northwest corner of the building.

The current project at this site consists of the removal of the debris piles and general clean up of the site. At the time of the asbestos investigation, there were no immediate plans to remove or renovate the warehouse building.

Asbestos materials were banned from use in building materials in 1978. However, the existing supplies of building materials containing asbestos could still be sold and were widely used in building construction until the early 1980s. For some applications such as boiler gaskets and brake shoes asbestos was used as late as the mid-1990s. Today, there is still limited use in roofing and in items such as brake shoes and boiler door gaskets. Because the construction dates for the tanks and the building are unknown, there is a potential that asbestos might be present in the building materials on the site.

The inspection of the site found the following materials that could potentially contain asbestos:

- Asphalt caulk near the southwest corner of Pile 1.
- Roof coatings on some of the tanks in Piles 1 and 3.





- Bituminous coatings on tank and pipe exteriors and some tank interiors.
- Sheetrock that had been textured and painted in the office areas.
- The textured ceiling in the northwest office area.
- Vinyl tile and sheet vinyl flooring and associated mastics.
- Composite ceiling panels in the southwest office area.
- Wall insulation in the office areas.
- Gray cellulose-like material on the warehouse floor.
- White gypsum-like material on the floor in the warehouse and in debris piles 1 and 2.

Asphalt roofing materials and the other asphalt or bituminous coatings are considered a Class I Non-Friable materials. The flooring is considered Class II Non-Friable. However, all of the asphalt and bituminous coatings were in poor condition and were friable. The flooring could potentially become friable when it is removed. The remaining sampled materials are considered friable.

The quantities, classes, and conditions of the suspect materials are summarized in Table 1.

SUSPECT MATERIALS	MATERIAL CLASS	CONDITION	ESTIMATED TOTAL QUANTITY
Sheetrock Walls	Friable	Fair to Poor	1,616 sq. ft.
Textured Sheetrock Ceiling	Friable	Good	154 sq. ft.
Composite Ceiling Tile	Friable	Fair to Poor	154 sq. ft.
12" vinyl tile	Class II Non- Friable	Good	154 sq. ft.
Sheet Vinyl Flooring-Irregular Brick Pattern	Class II Non- Friable	Fair	98 sq. ft.
Sheet Vinyl Flooring-White Pattern	Class II Non- Friable	Fair to Poor	56 sq. ft.
White Gypsum-like Material	Friable	NA	1.337 cu. Ft.
Gray Insulation	Friable	NA	0.669 cu. Ft.
Bituminous Coating	Friable	Poor	700 sq. ft.
Asphalt caulk	Class I Non-Friable	Poor	3 linear ft.
Asphaltic Coating Tank Tops	Class I Non-Friable	Poor	255 sq. ft.

TABLE 1: SUSPECT ASBESTOS MATERIALS - TYPE AND QUANTITY

4.2 Sampling Procedures

Once the types, conditions, and quantities of suspect materials had been identified, the number of each type of sample and the sampling locations were established in accordance with the Asbestos Inspection, Sampling, and Analysis Plan (the Plan) provided as Attachment 2.

Sixteen (16) samples of suspect materials were collected and analyzed in accordance with the Plan.

Field notes and sampling logs are provided as Attachment 3. Photographs of the asbestos sample sites are provided as Attachment 4. The numbers in each photograph correspond to the sample numbers found on the sample log in Attachment 3. Sampling locations are shown on the site plan (Attachment 1).

The samples were shipped to TraceAnalysis, Inc., in Lubbock, Texas, by United Parcel Service on Thursday, August 19, 2004. TraceAnalysis, Inc., forwarded the samples to Kevco Laboratory and Consulting Services, a certified asbestos laboratory in Butler, Pennsylvania, on Friday, August 20, 2004. A faxed report of the analytical results was received by RESPEC on Monday, August 23, 2004. The written detailed report was received by RESPEC on Thursday, August 26, 2004. Ms. Archamboult gave a verbal report on the asbestos to Mr. David Henard of RESPEC on Tuesday, August, 24, 2004. A copy of the final laboratory asbestos report and the chain-of-custody forms are provided as Attachment 5. The analytical results are summarized in Table 2.

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	PERCENT ASBESTOS	ASSESSED CONDITION
1	SW Corner Pile I	Asphalt Caulk	<1	Friable – fair to poor condition
2	NE Corner Pile I Tank Roof	Shiny Bituminous Coating,	NAD	Friable – poor condition
3	Southside Pile 1	White Gypsum-like Material	NAD	Friable – powdery
4	NW Office by Exterior Door	12" Vinyl Tile with a Beige Stone Chip Pattern and Mastic	NAD	Potentially friable during removal – good condition
5	SW Office Area in Hallway	Sheet Vinyl with Irregular Brick Pattern and Mastic (Primary Flooring in SW Office Area)	25-30	Potentially friable during removal – fair to poor condition
6	SW Office Area near Exterior Door	White Sheet Vinyl Flooring with Pattern and Mastic	NAD	Potentially friable during removal – poor condition
7	Ceiling SW Office Area Hallway	White Composite Ceiling Panel	NAD	Friable – fair to poor condition
8	Ceiling SW Office Area Hallway	Asphalt Coated Composite Ceiling Panel	NAD	Friable –fair to poor condition

TABLE 2: ASBESTOS ANALYTICAL RESULTS

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	PERCENT ASBESTOS	ASSESSED CONDITION
9	Warehouse Floor near Center	Gray Cellulose-like Material or Insulation	NAD	Friable – poor condition
10	Warehouse Floor near East Wall, North Bay Door	White Gypsum-like Powder	NAD	Friable – poor condition
11	NW Office Ceiling	Texture	NAD	Friable - good condition
12	NW Corner Pile 1	White Gypsum-like Material	NAD	Friable – poor condition
13	N End Pile 3	Asphalt Tank Roof Coating	NAD	Friable – poor condition
14	NW Office Area Wall	Insulation	NAD	Friable – fair condition
15	NW Office Area Wall	Sheetrock and Tape Joint Compound	NAD	Friable – fair to poor condition
16	N End Pile 3	Bituminous Tank Interior Coating	NAD	Friable – fair to poor condition

* NAD means no asbestos Detected

4.3 Analytical Results

Laboratory results indicate that asbestos was present in the sheet vinyl flooring with an irregular brick pattern that is located in the southwest office area. One asbestos fiber bundle was identified on the asphalt caulk sample taken from chunks of the material located near the southwest corner of Pile 1. No other asbestos was detected during the sample analysis.

4.4 Discussion

The total square and/or linear footage of each identified, homogeneous, ACM that contains one percent or more asbestos and that has been identified as friable or is considered friable, is sufficient to require NESHAP demolition/renovation reporting. Therefore, all ACM materials must be reported. The sheet vinyl flooring in the southwest office area is the only identified ACM. That flooring is in fair to poor condition and may become friable upon removal. No other ACMs were identified during the investigation. The asphalt caulk with one bundle of asbestos fibers was overall less than one percent and is not considered to be an ACM.

Abatement will be necessary for the flooring if the warehouse building is to be renovated or demolished. The removed materials will need to be disposed at a facility permitted to accept ACMs.

5.0 CONCLUSIONS

Based on the NESHAP requirements for renovation/demolition, the identified, friable or potentially friable ACMs that may be or will be disturbed by the renovation/demolition activities will require abatement before renovation can proceed. If abatement is not feasible for a structure, then all debris from the demolition/renovation must be considered asbestos-contaminated and must be disposed as ACMs. Also, if the ACMs are not abated, appropriate renovation procedures must be followed to confine and contain the asbestos fibers in the renovation debris. At least 10 days prior to the start of abatement or renovation, appropriate pre-demolition forms must be completed and submitted to the New Mexico Environment Department. The information required to complete the notifications is contained in Tables 1 and 2.

6.0 **RECOMMENDATIONS**

Based on observations made during the site visit and based on the analytical results, RESPEC makes the following recommendations:

- Where feasible, abate the ACMs and take them to a landfill permitted to accept ACMs. The material to be abated is the sheet vinyl flooring in the southwest office area.
- Use contractors certified to abate the asbestos.
- Use certified waste haulers for the asbestos waste.
- Use a disposal facility permitted to accept asbestos waste.

7.0 CONTACTS

Mr. Jimmy Bice, Project Manager Todd Crain, Hobbs, New Mexico, (505) 631-9827.

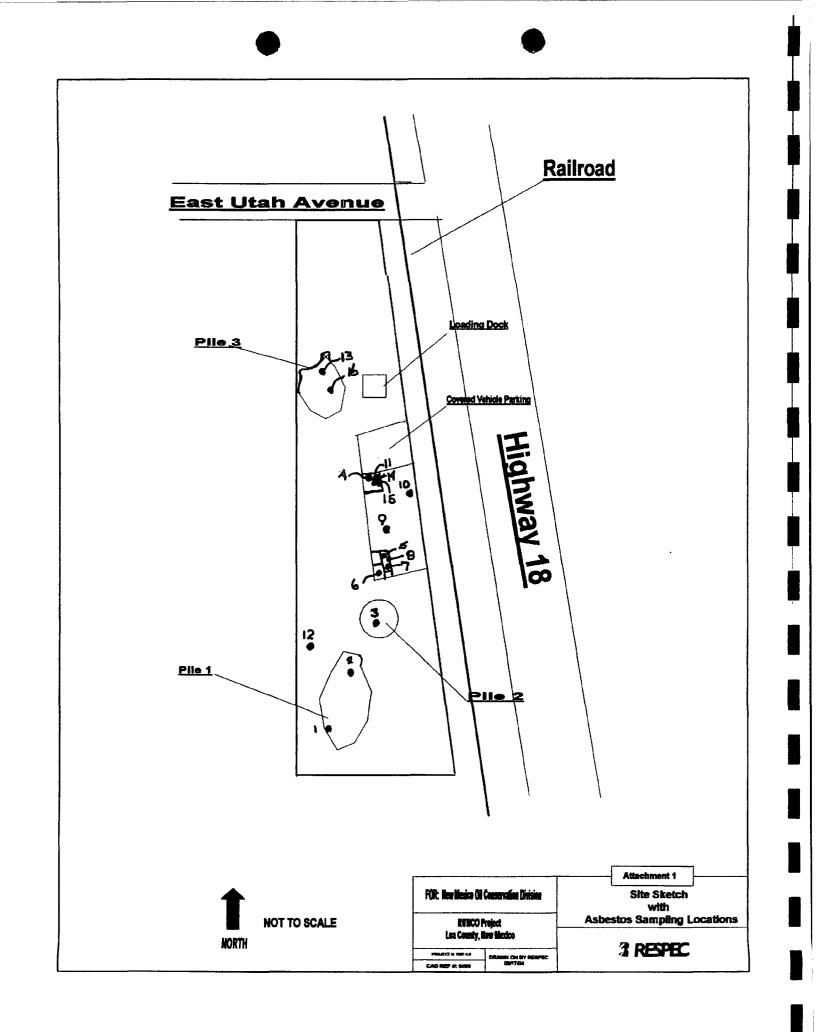
Mr. David Henard, RESPEC, Albuquerque, New Mexico, (505) 268-2661.

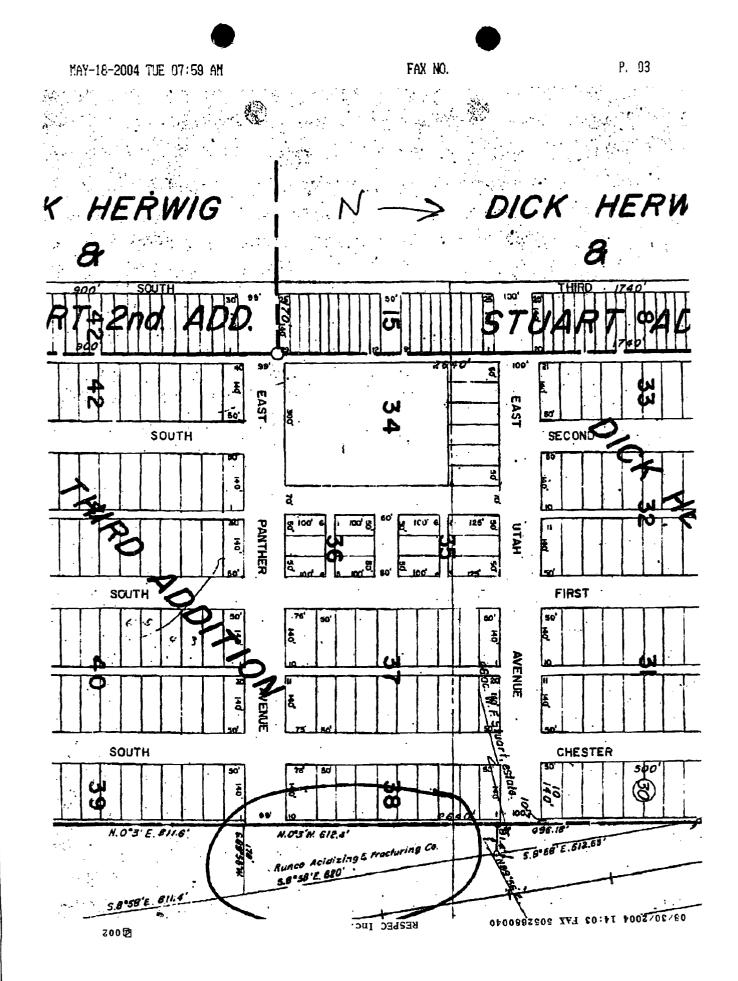
Mr. Gilbert Martinez, City of Jal Environmental Officer, Jal, New Mexico (505) 395-3340.

ATTACHMENT 1

Site Plan and Asbestos Sampling Locations

RESPEC

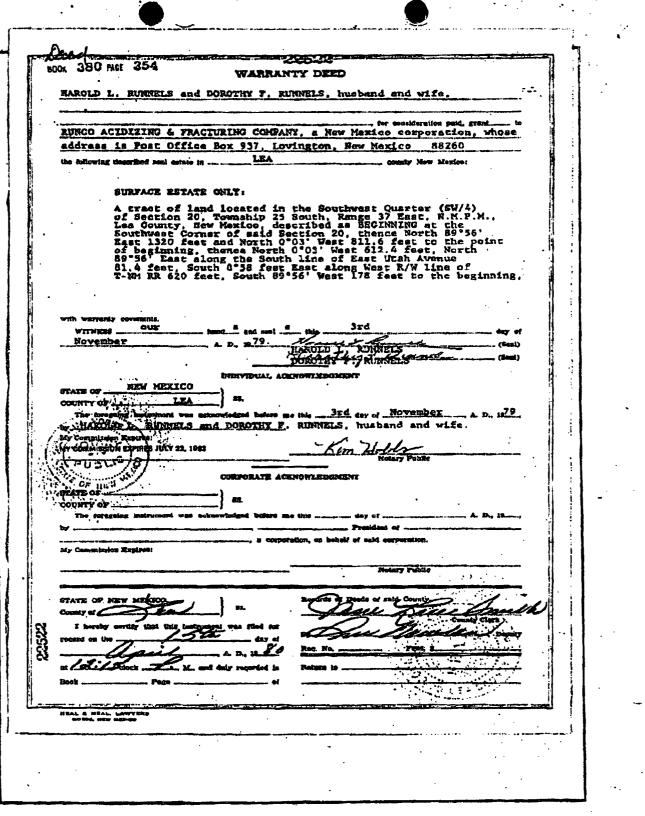




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REDIEC INC. FAX NO.

P. 03



ATTACHMENT 2

Asbestos NESHAP Inspection, Sampling, and Analysis Plan

ASBESTOS INSPECTION, SAMPLING, AND ANALYSIS PLAN OCD PROJECT JAL, NEW MEXICO

1.0 INTRODUCTION

This plan has been prepared for the asbestos inspection, with sampling, of the remaining infrastructure of an abandoned acidizing and fracturing company being remediated for the New Mexico Oil Conservation Division (OCD). The primary concern is the identification of asbestos containing materials on the property.

The general inspection procedure shall be:

- Prepare a site sketch.
- Inspect structures on the site to identify asbestos-suspect materials. Log the location, quantity, type, condition, and friability of each asbestos-suspect material.
- Group asbestos-suspect materials into homogeneous areas.
- Select random sampling locations and collect samples in accordance with Section 2.0 of this procedure. All sample locations will be logged and described in detail to allow the sample points to be identified in the future. Where possible, sample points will be marked with the sample number on a post-it note pad. Photographs will be taken of the sampling locations.

For NESHAP purposes, each asbestos-suspect material shall be classified as follows during the inspection:

- Category I Non-Friable (packings, gaskets, resilient floor coverings, and asphalt roofing products).
- Category II Non-Friable (any other asbestos-containing material that is not friable).
- Friable.

A copy of this plan shall be present at the sampling site.

2.0 SAMPLE REQUIREMENTS

Sufficient samples have to be collected to demonstrate that suspect materials either contain or are free of asbestos. To accomplish this, Asbestos Hazard Emergency Response Act (AHERA) sample requirements will be met. AHERA does not include materials that are not building materials. The

RESPEC

inspection being conducted under this plan covers AHERA identified asbestos-suspect materials in the facilities.

For each homogenous area, the minimum sample requirements are:

Surfacing Materials

Homogeneous area < 1000 square feet - three samples Homogeneous area 1000-5000 square feet - five samples Homogeneous area > 5000 square feet - seven samples

Thermal System Insulation

Each homogeneous area - three samples Each patched section - one sample Cemented fittings - one sample

Miscellaneous Material

Each Material - one sample

Normal (five-to-ten days) laboratory turn-around time is required.

For budgetary purposes, the required number of samples is estimated to be 20.

3.0 ANALYSIS METHODS AND QUALITY CONTROL

Each sample shall be analyzed for asbestos content using the Polarized Light Microscopy (PLM) method described in 40CFR763, Subpart F, Appendix A. The asbestos content of samples of friable materials that contain between trace (less than one percent) and one percent asbestos shall be subjected to a point-count analysis. Point counting shall be used on any sample for which doubt exists about the percent asbestos.

Asbestos samples will be analyzed at a laboratory that is accredited for AHERA program bulk analyses by the National Voluntary Laboratory Accreditation Program (NVLAP) under the National Institute of Standards and Technology and the NIOSH Proficiency in Analytical Testing Program (PAT). Unless conditions at the time of sampling dictate otherwise, the samples are to be analyzed at a certified laboratory used by Trace Laboratories in Lubbock, Texas.

Split samples and field-blank protocols are not required for this project.

4.0 PERSONAL SAFETY

The safety of the inspector is paramount. The inspector is not expected to place himself in danger for the sake of inspecting or collecting samples. The decision to enter a building or collect samples rests with the inspector.

The personnel taking the samples shall use safety glasses, half-face respirators with High Efficiency Particulate Air (HEPA) filters and disposable gloves when collecting the samples of potentially friable materials.

A disposable coverall shall be worn for overhead sampling and for sampling of friable materials.

Disposable personal protective equipment shall be bagged at the conclusion of sampling and managed as asbestos-containing waste.

When friable or potentially friable materials are being sampled, the client or building-owner representative(s) accompanying the sampler will either wear their personal and appropriately fitted protective equipment (half-face respirator with HEPA filters and disposable coveralls) or will be asked to leave the immediate area of sampling.

Because the site is being demolished, hard hats, steel-toed boots, and safety glasses will be required. Hearing protection will be required if the sampling area is in a high noise area.

5.0 SAMPLING PROCEDURES

Sampling procedures to be used will depend upon the type of materials encountered. When suspect materials may contain more than one layer, core samples shall be collected.

Samples of floor tiles and other materials that may be glued shall include the mastic or glue.

Every effort will be made to avoid unnecessary disturbance of the materials. Because the structures are to be demolished, no attempt will be made to patch sample areas.

The inspector may be required to breach building structures to ascertain whether asbestos-suspect materials are contained within.

When suspect material has to be cut, cored, or broken to obtain a sample, or when sampling loose friable materials, the area will be dampened with water to minimize the release of fibers. After a sample is taken, the immediate area of the sample points should be wet cleaned with a paper towel and the towel placed in the waste-accumulation bag.

When sampling friable materials, or loose overhead materials, disposable plastic sheets will be used under the area to control the spread of debris. Sheets shall be collected and managed as waste materials.

About one ounce of material is required for each sample. The sample will be placed in a plastic ziplock bag. The bag will be sealed with tape and marked with a sample number. Other suitable sample containers may be used as long as they can be sealed to minimize the chance of inadvertent opening and can be marked with a sample number.

Care shall be taken to prevent sample cross-contamination. If a knife or coring tool has been used to cut out material, the knife or coring tool will be cleaned with water and paper towels before being used again. Disposable gloves will be discarded following use on a friable material.

Tools used to obtain samples of petroleum-based material such as roofing tar will be cleaned with paint thinner and paper towels before being used for a succeeding sample.

The inspector shall collect all waste material and shall dispose of the material off-site commensurate with the nature of the waste. When possible, de-minimus debris will be forwarded to the laboratory for disposal.

6.0 SAMPLE PRESERVATION AND PREPARATION FOR TRANSPORTATION

The samples being collected do not require sample-preservation action.

For transportation to the laboratory, the sample containers will be placed in a heavy plastic bag (or double bag) and the bag sealed with tape.

The samples will be placed in a shipping container (sturdy cardboard box) along with a completed analysis-request/chain-of-custody form. The container will be sealed with filament tape.

The sampler shall sign and place a business card across the opening and tape the card and container such that the card will have to be destroyed to open the package. The package shall be forwarded to the laboratory by Federal Express or United Postal Service (UPS) priority service.

7.0 RECORDS AND LOGS

7.1 Sampling Log

A field-activity log and a sampling log covering all sampling operations will be maintained.

7.2 Chain-of-Custody and Analysis-Request Form

A combined chain-of-custody and analysis-request form shall accompany all samples forwarded to a laboratory for analysis.

7.3 Laboratory Reports

The laboratory report shall include the following information:

- sample number,
- laboratory identification number,
- analysis parameter,
- analysis results,
- units of measurement,
- analysis detection level,
- analysis method used, and
- signature of analyzer or supervisor.

8.0 SUBCONTRACTORS

No subcontractors are required to accomplish the sampling specified in this plan.

9.0 SAMPLING EQUIPMENT AND SUPPLIES

The following equipment and supplies are required to conduct the sampling described in this plan:

- disposable gloves
- half-face respirator with HEPA filters
- sample shipping container
- indelible marking pen
- clear filament tape and duct tape
- heavy-duty, one-quart, zip-lock plastic bags
- knife, corer, and related hand tools
- paper towels
- supply of water and plastic wash bottle
- supply of paint thinner
- non-asbestos roof patch
- spackling plaster or similar patch for sheetrock
- plastic, 30-gallon trash bag
- measuring tape
- clip board and any necessary forms.

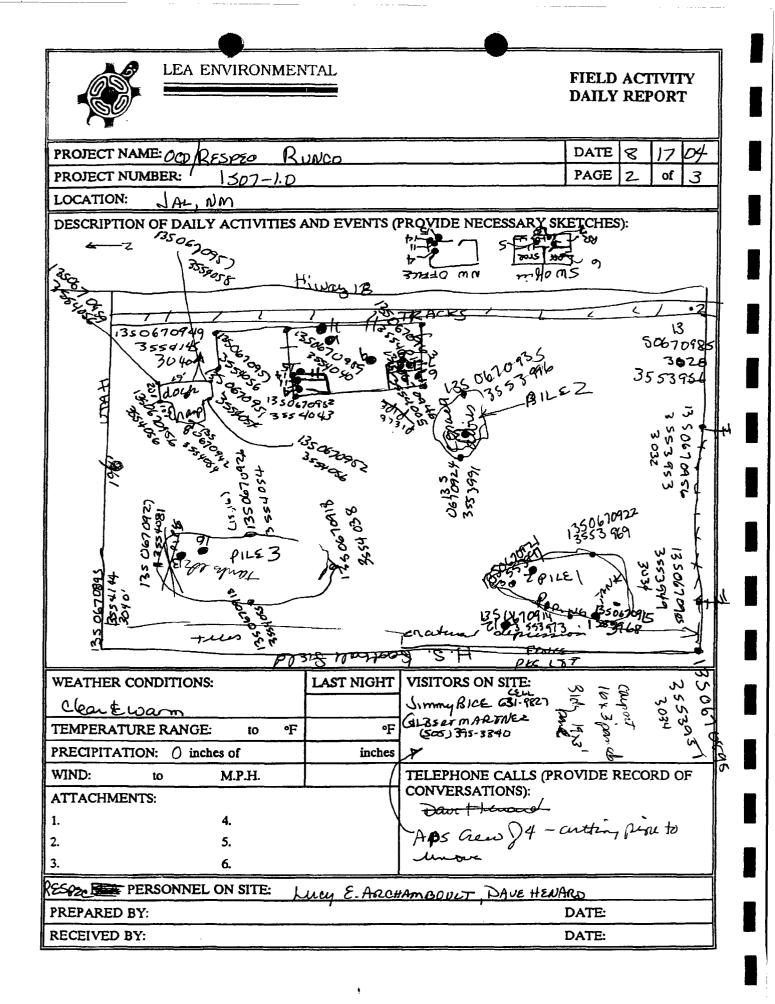
ATTACHMENT 3

Asbestos Field Notes and Sampling Logs

LEA ENVIRONMENTAL FIELD ACTIVITY DAILY REPORT 04 DATE PROJECT NAME: RESPEC-JAL DCD-RUNCA 8 PROJECT NUMBER: 1507-1.0 PAGE of 3 LOCATION: Jal Nm DESCRIPTION OF DAILY ACTIVITIES AND EVENTS (PROVIDE NECESSARY SKETCHES): 395-3340 Gilbert martine Travel 6:45.7.45. 745- 1145 on Sotts City lal Env. of 50 wide by 1200 99 10 SL. ode walts Nu Pantid & Dame 1. Lation 1 = 14x11 SW coner 3 tires In OMA. 1 atimory 13 che Dan mona gray matinalon lon N) rai su W W com แรโ le# ন্থি Ligal \$ 2000 Properte 4 mao-2100 28 WEATHER CONDITIONS: LAST NIGHT VISITORS ON SITE: JIMMY BICE PM- CRANE GILBERT MARTALEZ-CITYOFJALENV. Office ۰F 4 APS Employees - removing scrap metal. **TEMPERATURE RANGE:** to ٩F PRECIPITATION: inches inches of WIND: M.P.H. TELEPHONE CALLS (PROVIDE RECORD OF to CONVERSATIONS: ATTACHMENTS: Jmmy BICE 631-9827 CELL on.Mar OUSHER 1. 4. DD CRANE 631-9494 phone ONSITE 2. 5. 3. 6. RESPECTEDE PERSONNEL ON SITE: DAVE HENARD, LUCY Archambourt PREPARED BY: DATE: 8/17/04 ust. Uchanfourt DATE: 81,7/04 **RECEIVED BY:** 8. an I

	IENTAL		FIELD ACTIV DAILY REPOI	
PROJECT NAME: OCD RESPEO	RUARO 1	507-1.0	DATE 8 1	204
PROJECT NUMBER: 1507-1.0				r 13
LOCATION: JAL, NM				
DESCRIPTION OF DAILY ACTIVITIES	AND EVENTS (PROVIDE NECES	SARY SKETCHES):	
GPS PES (NW UM 13506	-70895 355	41 4	NAD 2	7
NELONU HESO	7079 355	4145 13 506	10949	
SITE SW conner 1350	0670995 35	5395		
SE comen 13 SC	670875 35	53956	·····	
N 13 50670921 3	-		1350670925 35539	396
June 25 1350,70915 35	53948	W PILE	1350670924 35530	99/
Puli (= 13 50670922, 3:	553 <i>96</i> 9		·····	
(1350670914 -:	3553973			
		SE DOLK	1350670957 355405	8
N 13 50670 927 35	5408/	CENTER Dock	1350670949 355414	5?
June P4 28 18 Solo70926 3	554654	CENTER DOCKAN	p 1350670942 3554	054
3 13 13 506709 R 355			350670956 3554054	
(W 1350670918 3:	220 22	NE DOCK 1	350670959 3554056	
	_ ·	SWDOCK	1350670952 3554056	,
· WW NW B 5067 09.52 3554 BW NO ENE 13 506709.59 355404	043	(NE 135067	0957 3554 056	
BUN SNE 13 50670959 355404 UN SW 13 50670963 355404	o du	NW 135067	095 3554 054	
(SW 1350670963 3550	11 EF	ENCE ENDARI.	to S. 13 50670956 3	533 K3
SE 135 067 0946 355	40as w	FEACE END AN	TIS 13506209053	553949
WEATHER CONDITIONS:	LAST NIGHT	VISITORS ON S	ITE:	
TEMPERATURE RANGE: to •F	۰F			
PRECIPITATION: inches of	inches			
WIND: to M.P.H.		TELEPHONE C	ALLS (PROVIDE RECORD	OF
ATTACHMENTS:		CUIVERSAIL	110.	
1. 4.				
2. 5.				
3. 6.				
LEA PERSONNEL ON SITE:	·····			
PREPARED BY:	<u> </u>		DATE:	
RECEIVED BY:			DATE:	

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Sample_Log

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Client: OCD	RESPEC RUNCO	JAL. NM 150	7-10 Date: 8/17/04
	mpling: ASBESTES		

Sample Number	Type of Sample	Sample Volume	Sample Location	Remarks
)	Bulk	-	espaltin matinal on grounde SW Pile ≠)	
З	Bulk	L	shing black - 6itemines? coatine Pill of NE coni	
3	Buek	~	white gyp materias on S. Side pr prograted double on tigh bag th	le 2 ash banel ii
*A	Rosan		white gyp material on S. Start engested double on tiple bag the blog - cafeluch plan materiali sear alterall sach is found	n bag, por c
Ą	Bulk	-	NW official By affector door brige brown Stone clip patto	m - squares
5,6	Bulle	~	Sw punay Patien the en	69
67	Brde		Beine Batter SW Tfice	
7.8	Bulk	-	printed cinh board	
89	Brek	-	hanging ceiling bound - asphal	لىر
9-Ð	Bulls	~	gray moture Zindeldy	
1027	Bulk	~	white motional	
11 72	Bulk	NN	offin BElling texturionly	
12-13	Bulk		which matrial by debis pile !	•

Sa	mp	le	Log

pZofZ

Client	: OCD/RES	PEC RUN	CO JAL, NM Date: Of	\$/17/04						
	Purpose of Sampling: ASBESTOS for NESHAPS									
Sample Number	Type of Sample	Sample Volume	Sample Location	Remarks						
,14 ⁺ 13	Bulk	ţ	Neuro pile 3 Neuro pile							
14	BNE	Ľ	insulation							
K	BNE Bulk Bulk	u	itvsulation Sheet rocke topigt. compand ? bitumious coating inside tend - Pile 3							
16	Bulls		"bitumious coating inside trule - Pill 3 mar NSpol							
I	1	I	5.3 × 5.7 1							

ATTACHMENT 4

Asbestos Sampling Site Photographs

RESPEC





Sample 1: Asphalt caulk near southwest corner of Pile 1.



Sample 2: Bituminous tank roof coating Pile 1.



Sample 3: White gypsum-like material from Pile 2.



Sample 4: 12" vinyl tile and mastic.





Sample 5: Southwest office hallway sheet vinyl flooring with irregular brick pattern.



Sample 7: Painted composite ceiling tile in the southwest office hallway.



Sample 6: Southwest office sheet vinyl flooring near exterior door.



Sample 8: Asphaltic composite ceiling tile in the southwest office hallway.



Sample 9: Gray cellulose type material near center of warehouse floor.



Sample 11: Northwest office ceiling texture.



Sample 10: White gypsum-like powder on warehouse floor near north bay door on east wall.



Sample 12: White gypsum-like material near Pile 1.





Sample 13: Tank roof coating from north end of Pile 3.



Sample 15: Northwest office sheetrock wall with tape joint compound.



Sample 14: Northwest wall insulation.



Sample 16: Interior bituminous tank coating from Pile 3.



Asbestos Chain-of-Custody Forms and Laboratory Reports

RESPEC

08/31/2004 16:16 FAX 505260040



BULK ASBESTOS SAMPLE ANALYSIS REPORT

RESPEC Inc.

REPORT DATE: 8/23/04

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TEST NETHOD: 40 CFR CH. ((1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: TRACEANALYSIS, INC. 6701 ABERDEEN AVENUE ATTENTION: WELL GREEN

TX

79424

ANALYST SIGNATURE: la GARY LANDINI

KEVCO JOB HUHBER: Date Received: Date Analyzed:	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04
CLIENT SAMPLE ID: PROJECT ID:	41980	41981	41982
SAMPLE LUCATION	**CNE ASSESTOS FIBER BURDLE FOUND ON SAMPLE SURFACE		
IS THE SAMPLE HONOGENEOUS?	NO	NO	YES
DOES IT CONTAIN LAYERS?	YES	YES	NO
IS THE SAMPLE FIBROUS?	NO	NO	NO
SANPLE COLOR:	BLACK	BROWN/BLACK	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	NO	NO
ASBESTOS TYPE AND PERCENT:	CHRYSOTILE < 1%	·●● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	••••••
TOTAL PERCENT ASBESTOSI	LESS THAN 1 PERCENT	0 PERCENT	0 PERCENT
FIBROUS MATERIALS AND PERCENT:	CELLULOSE 35 - 45 SYNTHETIC 61 - 02 HAIR (WOOL) < 1%	CELLULOSE < 1X SYNTHETIC < 1X	CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	NATRIX/FILLER	NATRIX/FILLER	BINDER/FILLER
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES CALLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY. - All samples will be disposed of 90 days following sample receipt unless otherwise instructed by THE CLIENT

UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING NATERIAL" CONTAINS MORE THAN ONE PERCENT. ASBESTOS

ABBESTOS. - UNLESS OTHERWISE STATED, TEST NETHOD DOES NOT UTILIZE POINT COUNTING, GUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLH EXAMINATIONS. - UNDER CURRENT NESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING. THIS TEST REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PROCUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

"1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFUEAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

KEYCD SERVICES INC. . 890 PITTSBURGH ROAD . BUTLER, PA 16002 TEL 724-586-6343 FAX 724-586-2172 E-mail:kevco@penn.com

08/31/2004 16:19 FAX 5052680040



BULK ASBESTOS SAMPLE ANALYSIS REPORT

79424

RESPEC Inc.

REPORT DATE: 8/23/04

TEST METHOD: 40 CFR CH. 1 (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

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ANALYST	SIGNATURE:	Mare
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	1. A.	GARY LANDLEL

KEYCO JOB NUMBER: DATE RECEIVED: DATE ANALYZED:	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04
CLIENT SAMPLE ID: PROJECT ID:	41983	41983A	41984
SANPLE LOCATION:		GLUE (ADRESIVE) FROM SAMPLE 41983	
IS THE SAMPLE HONOGENEOUS?	NO	YES	ND
DOES IT CONTAIN LAYERS?	YES	NO	YES
IS THE SAMPLE FIBROUS?	NO	NO	NO
SANPLE COLOR:	WHITE/TAN/BROWN	TAN	TAN/GRAY
SAMPLE CONTAIN ASHESTOS FIBERS7	NO	NO	YES
ASBESTOS TYPE AND PERCENT:			CHRYSOTILE 25 - 30
TOTAL PERCENT ASBESTOS:	O PERCENT	O PERCENT	TOTAL: 25 - 30
FIBROUS MATERIALS AND PERCENT:	CELLULOSE < 1% Symthetic < 1%	CELLULOSE < 1% SYNTHETIC < 1% HAIR (VOOL) < 1%	CELLULOSE 01 - 02 SYNTHETIC < 1%
NONFIBROUS CONSTITUENTS:	NATRIX	MATRIX	MATRIX/BINDER
DEVIATION FROM TEST METHOD:		*1	

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY. - ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT. UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT

ASBESTOS.

ASSESTOR. • UNLESS OTHERVISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING NACROSCOPIC AND/OR PLN EXAMINATIONS. • UNDER CURRENT NESHAP REGULATIONS, 40 CFR PART 61, ASSESTOR CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING. THIS TEST REPORT NUST NOT BE USED BY THE CLIENT TO CLAIN PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN AVALYSIS CONTINUES ACCORDING TO TEST METHOD.

> KEVCO SERVICES INC. + 890 PITTSBURGH ROAD + BUTLER, PA 16002 TEL 724-586-6343 FAX 724-586-2172 E-mell:keyco@penn.com

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08/31/2004 16:23 FAX 505 0040



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BULK ASBESTOS SAMPLE ANALYSIS REPORT

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RESPEC Inc.

REPORT DATE: 8/23/04

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT, F APP. A. PAGES 293-299.

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REPORT TO: TRACEANALYSIS, INC. 6701 ABERDEEN AVENUE TX ATTENTION: NELL GREEN

ANALYST SIGNATURE: GARY

			<u>in an an</u>
KEVCO JOB NUMBER: Date received: Date Analyzed:	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04
CLIENT SAMPLE ID: PROJECT ID;	41985	41985A	41986
SAMPLE LOCATION:		FLOORING UNDERLAY	
IS THE SAMPLE HONOGENEOUS?	NO	YES	NO
DOES IT CONTAIN LAYERS?	YES		YES
IS THE SAMPLE FIBRCUS?	ŇO	NO	YES
SAMPLE COLOR:	WHITE/TAN/GRAY	WHITE	WHITE/TAN
SAMPLE CONTAIN ASBESTOS FIBERS?	NO	Ю	NO
ASUESTOS TYPE AND PERCENT:			********
TOTAL PERCENT ASBESTOS:	O PERCENT	O PERCENT	0 PERCENT
FIBROUS MATERIALS AND PERCENT:	FIGROUS GLASS 01 02 CELLULOSE 25 35 SYNTHETIC 01 02	CELLULOSE < 1%	CELLULOSE 90 - 95
NONFIBROUS CONSTITUENTS:	MATRIX/BINDER	BINDER	BINDER

*1

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY. - ALL SAMPLEE WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.

UNDER CLIRRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT. ASBESTOS.

ASSESTOR. - UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS. - UNDER CURRENT NESHAP REQULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING. THIS TEST REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

DEVIATION FROM TEET METHOD:

*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

> KEVCO SERVICES INC. • 890 PITTSBURGH ROAD • BUTLER, PA 18002 TEL 724-586-6343 FAX 724-586-2172 E-mail:kevco@penn.com

08/31/2004 16:27 FAX 5052660040



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BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 8/23/04

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

•	REPORT	TQ:	TRACEANALYSIS	INC.		ANALYST	SIGNATURE:	The	ten	the
			LUBBOCK NELL GREEN	TX	79424		and the state of the	GARY DANDLNI		
.,										

KEVCO JOB NUMBER: Date Received: Date Analyzed:	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04
CLIENT SAMPLE ID: PROJECT ID:	41987	41988	41989
SAMPLE LOCATION:			
IS THE SAMPLE HONCGENEOUS?	NO	YES	NO
DOES IT CONTAIN LAYER57	YES	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	NO
SAMPLE COLOR:	BLACK/GRAY	GRAY	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	NO	CI	Ю
ASBESTOS TYPE AND PERCENT:			
TOTAL PERCENT ASBESTOS:	O PERCENT	O PERCENT	0 PERCENT
FIBROUS MATERIALS AND PERCENT:	CELLULOSE 85 - 90	CELLULOSE 90 - 95 SYNTHETIC < 12 HAIR (WOOL) < 12	FIBROUS GLASS < 1% CELLULOSE 01 - 05 SYNTHETIC < 1% HAIR (WOOL) < 1%
NONFIBROUS CONSTITUENTS	BINDER/FILLER	BINDER	BINDER/FILLER/MATRIX
DEVIATION FROM TEST METHOD:			

 THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
 ALL BAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
 UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT APPROVAL ASBESTOS .

ASBESTOS. - UNLESS OTHERUISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING, QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS. - UNDER CURRENT MESHAP REGULATIONS, 60 CPR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS TRAM 10 PERCENT ASSESTOS MUST BE REVERTIED BY PLM POINT COUNTING. THIS TEST REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NYLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, MEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

> Keyco Services Inc. • 890 PITTSBURGH ROAD • BUTLER, PA 16002 TEL 724-586-6343 FAX 724-586-2172

RESPEC Inc.

10040 08/31/2004 16:30 FAX 5052



BULK ASBESTOS SAMPLE ANALYSIS REPORT

79424

REPORT DATE: 8/23/04

TEST NETHOD: 40 CFR CR. 1 (1-1-87 EDITION) PT 763, SUBPL. F APP. A. PAGES 293-299.

REPORT TO: TRACEANALYSIS, INC. 6701 ABERDEEN AVENUE LUBBOCK TX ATTENTION: NELL GREEN

ANALYST SIGNATURE: Ω LAHOLNI GARY

KEVCO JOB NUMBER: Date Received: Date Analyzed:	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04	18855 8/23/04 8/23/04
CLIENT SAMPLE ID: PROJECT ID:	41990	41991	41992
SAMPLE LOCATION:			
IS THE SAMPLE HONOGENEOUS?	ON	YES	NO
DOES IT CONTAIN LAYERS?	NC	NO	YES
IS THE SAMPLE FIBROUS?	NO	KC	NO
SAMPLE COLOR:	LT. GRAY/TAN	WHITE	BLACK
SAMPLE CONTAIN ASSESTOS FIBERS?	NO	XO	ND
ASBESTOS TYPE AND PERCENT:			
TOTAL PERCENT ASBESTOS:	0 PERCENT	O PERCENT	O PERCENT
FIGROUS MATERIALS AND PERCENT:	CELLIAOSE < 1X SYNTHETIC < 1X	CELLULOSE < 1X	CELLULOSE 15 - 20
MONFIEROUS CONSTITUENTS:	BINDER/VERMICULITE FILLER	BINDER/FILLER	MATRIX/FILLER
DEVIATION FROM TEST METHOD:	• 2		

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.

ALL SAMPLES WILL BE DISPOSED OF FO DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY

THE CLIENT. - UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS. - UNLESS OTHERVISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. GUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS. - UNDER CURRENT MESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COLMITING. THIS TEST REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

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*2 SAMPLE RECEIVED WET; SAMPLE DRIED PRIOR TO ANALYSIS *1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

KEVCO SERVICES INC. + 890 PITTSBURGH ROAD + BUTLER, PA 16002 ÷: TEL 724-586-6343 FAX 724-596-2172 E-mail:kevco@pena.com

RESPEC Inc.



BULK ASBESTOS SAMPLE ANALYSIS REPORT

79424

RESPEC Inc.

REPORT DATE: 8/23/04

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REFORT TO: TRACEANALYSIS, INC. 6701 Aberdeen Avenue Lubbock T TX ATTENTION: NELL GREEN

ANALYST SIGNATURE: GARY LANDLINI

KEYCO JOB NUMBER: 18855 18855 18855 8/23/04 DATE ARALYZED: B/23/04 8/23/04 8/23/04 8/23/04 CLIENT GAMPLE ID: 41993 41994 41995 PROJECT ID: 41993 41994 41995 SAMPLE LOCATION: Image: state sta				
PROJECT 10: SAMPLE LOCATION: IS THE SAMPLE LOCATION: NO IS THE SAMPLE HOMOGENEOUS? YES NO YES DOES IT.CONTAIN LAYERS? NO YES NO JS THE SAMPLE FIBROUS? YES JS THE SAMPLE FIBROUS? YES NO YES SAMPLE COLOR: YELLOW/GRAY WHITE/TAN BLACK SAMPLE CONTAIN ASBESTOS FIBERS? NO NO NO ASBESTOS.TYPE AND PERCENT: NO TOTAL PERCENT ASBESTOS: O PERCENT PIBROUS MATERIALS AND PERCENT: FIBROUS GLASS & 55 - 90 CELLULOSE < 12 SYNTHETIC < 13 MONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER MATRIX	DATE RECEIVED:	8/23/04	8/23/04	8/23/04
IS THE SAMPLE HOMOGENEOUS? YES NO NO NO DOES IT CONTAIN LAYERS? NO YES YES YES YES YES YES YES NO NO IS THE SAMPLE FIBROUS? YES NO NO NO SAMPLE COLOR: YELLON/GRAY WHITE/TAN BLACK SAMPLE CONTAIN ASBESTOS FIBERS? NO NO NO NO ASBESTOS TYPE AND PERCENT: NO NO NO NO ASBESTOS TYPE AND PERCENT: O PERCENT O PERCENT O PERCENT FIBROUS NATERIALS AND PERCENT: FIBROUS GLASS 85 - 90 CELLULOSE 25 - 30 CELLULOSE < 12 SYNTHERIC : 13 MONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER HATRIX		41993	41994	41995
DOES IT CONTAIN LAYERS? NO YES YES IS THE SAMPLE FIBROUS? YES NC NO SAMPLE COLOR: YELLOW/GRAY WHITE/TAN BLACK SAMPLE CONTAIN ASBESTOS FIBERS? NO NO NO ASBESTOS TYPE AND PERCENT: I I TOTAL PERCENT ASBESTOS: O PERCENT O PERCENT O PERCENT FIBROUS NATERIALS AND PERCENT: FIBROUS GLASS 85 - 90 CELLULOSE 25 - 30 CELLULOSE 13 MONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER MATRIX	SAMPLE LOCATION:			
IS THE SAMPLE FIBROUS? YES NC NO SAMPLE COLOR: YELLOH/GRAY WHITE/TAN BLACK SAMPLE CONTAIN ASBESTOS FIBERS? NO NO NO ASBESTOS TYPE AND PERCENT: O PERCENT O PERCENT O PERCENT TOTAL PERCENT ASBESTOS: O PERCENT O PERCENT O PERCENT FIBROUS NATERIALS AND PERCENT: FIBROLS GLASS & 5 - 90 CELLULOSE 25 - 30 CELLULOSE < 1% NONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER MATRIX	IS THE SAMPLE HOMOGENEOUS?	YES	NO	WO
SAMPLE COLOR: YELLOM/GRAY WHITE/TAN BLACK SAMPLE CONTAIN ASBESTOS FIBERS? NO NO NO ASBESTOS TYPE AND PERCENT: I I TOTAL PERCENT ASBESTOS: O PERCENT O PERCENT FIBROUS NAYERIALS AND PERCENT: FIBROUS GLASS & 5 - 90 CELLULOSE YONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER WATRIX	DOES IT CONTAIN LAYERS?	NO	YES	YES
SAMPLE CONTAIN ASBESTOS FIBERS? NO NO ASBESTOS TYPE AND PERCENT: I TOTAL PERCENT ASBESTOS: 0 PERCENT O PERCENT 0 PERCENT FIBROUS MATERIALS AND PERCENT: FIBROUS GLASS. 85 - 90 CELLULOSE < 1%	IS THE SAMPLE FIBROUS?	YES	NC	CN
ASBESTOS TYPE AND PERCENT: TOTAL PERCENT ASBESTOS: 0 PERCENT 0 PERCENT 0 PERCENT FIBROUS MATERIALS AND PERCENT: FIBROUS GLASS 85 - 90 CELLULOSE 25 - 30 CELLULOSE < 12 CELLULOSE < 12 NONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER MATRIX	SANPLE COLOR:	YELLOW/GRAY	WHETE/TAN	BLACK
TOTAL PERCENT ASSESTOS: 0 PERCENT 0 PERCENT 0 PERCENT FIBROUS NATERIALS AND PERCENT: FIBROUS GLASS 85 - 90 CELLULOSE 25 - 30 CELLULOSE < 1%	SAMPLE CONTAIN ASBESTOS FIBERS?		NO	NO
FIBROUS NATERIALS AND PERCENT: FIBROUS GLASS 85 - 90 CELLULOSE 25 - 30 CELLULOSE < 1%	ASBESTOS TYPE AND PERCENT:			
CELLULOSE 1% \$YNTHEFIC 1% NONFIBROUS CONSTITUENTS: BINDER/GLASS BEADS BINDER/FILLER MATRIX	TOTAL PERCENT ASBESTOS:	0 PERCENT	0 PERCENT	0 PERCENT
	FIBROUS NATERIALS AND PERCENT:			
DEVIATION FROM TEST NETROD:	NONFIBROUS CONSTITUENTS:	BINDER/GLASS BEADS	BINDER/FILLER	HATRIX
	DEVIATION FROM TEST METHOD:			- 1

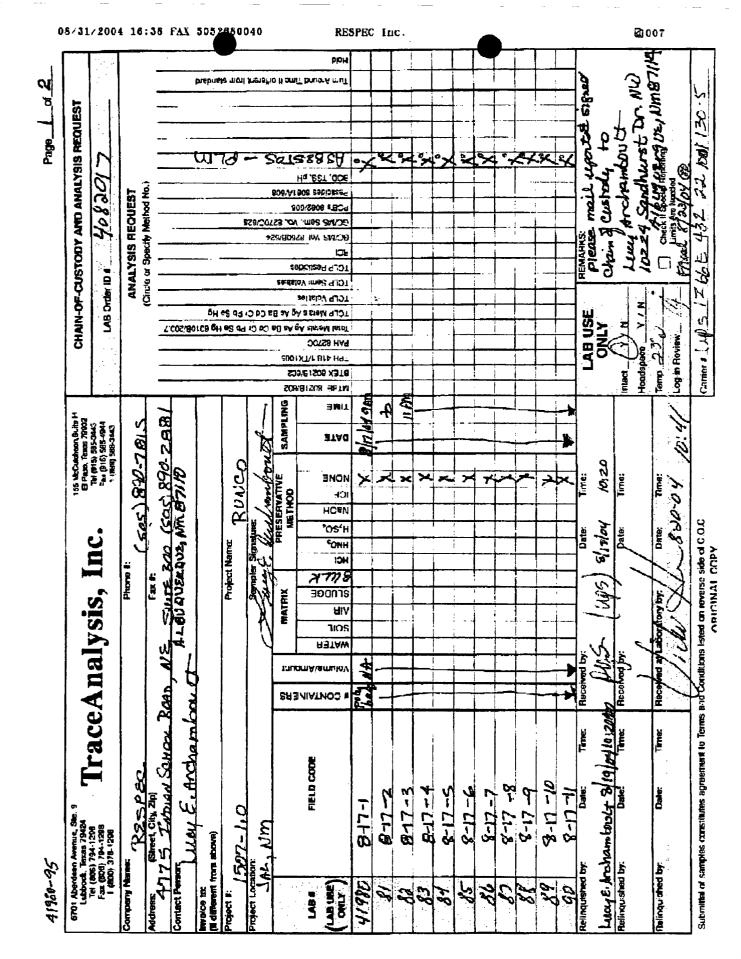
THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY. ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.

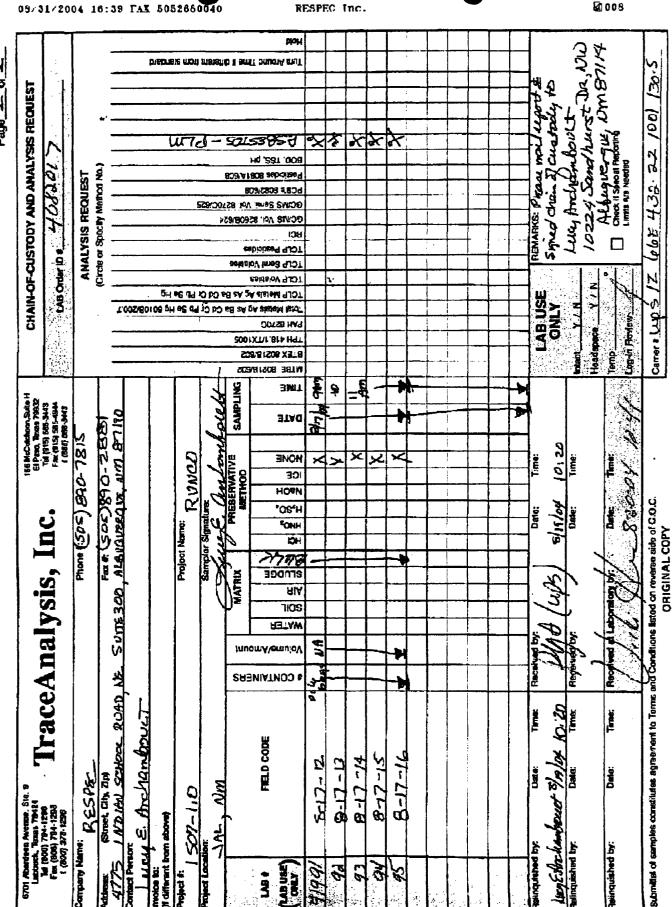
4 UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT

WHDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
 WHLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING, QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
 WHDER CURRENT NESHAP REGULATIONS, AO CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.
 THIS TEST REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

*1 NATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST NETHOD.

KAVCO SERVICES INC. + 890 PITTSBURGH ROAD + BUTLER, PA 16002 TEL 724-586-6343 FAX 724-586-2172 E-mail:keyco@penn.com





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Page 2 of 2

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6701 Abardeen Avenue. Ste. 9 Laccorch, Teast 79424 Tex (900) 779-1298 Fax (900) 739-1298 (800) 227-1295

Company Name:

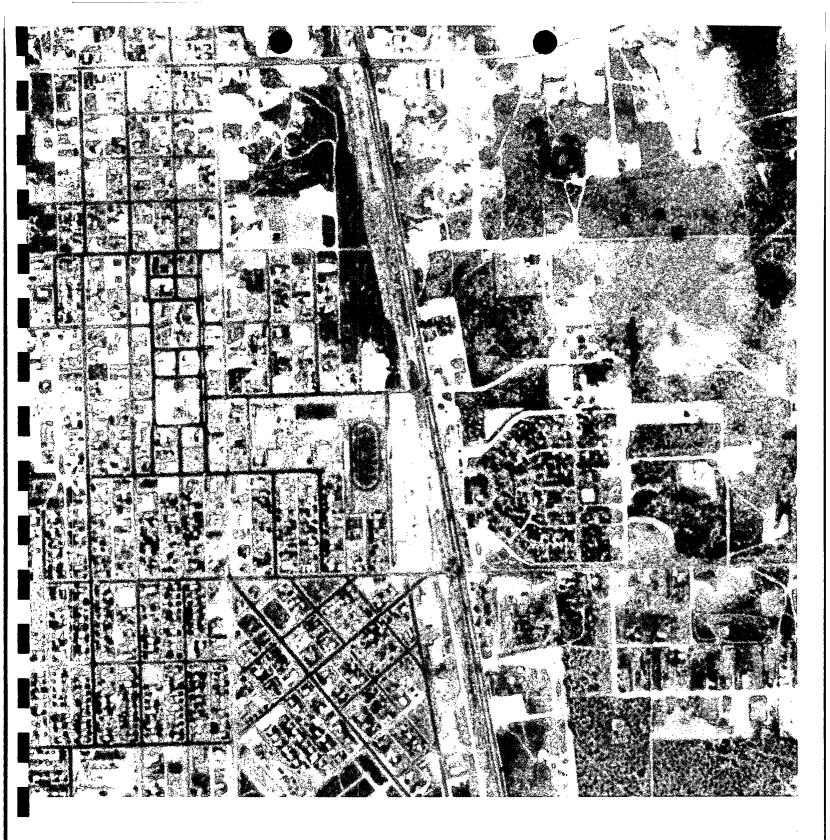
RESPEC Inc.

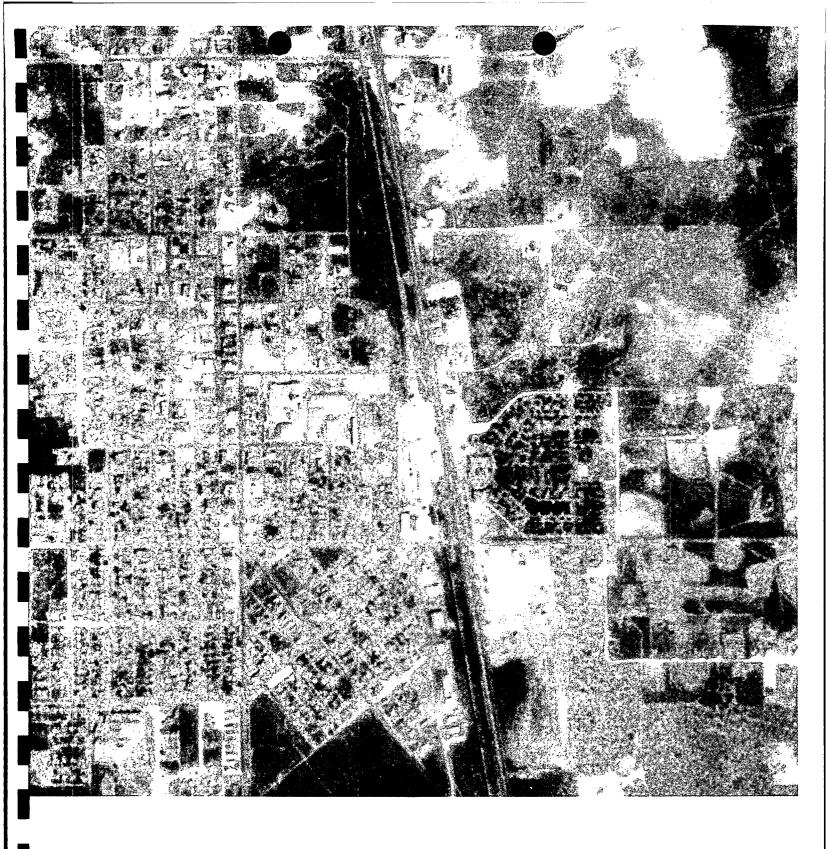
APPENDIX E

AERIAL PHOTOGRAPHS

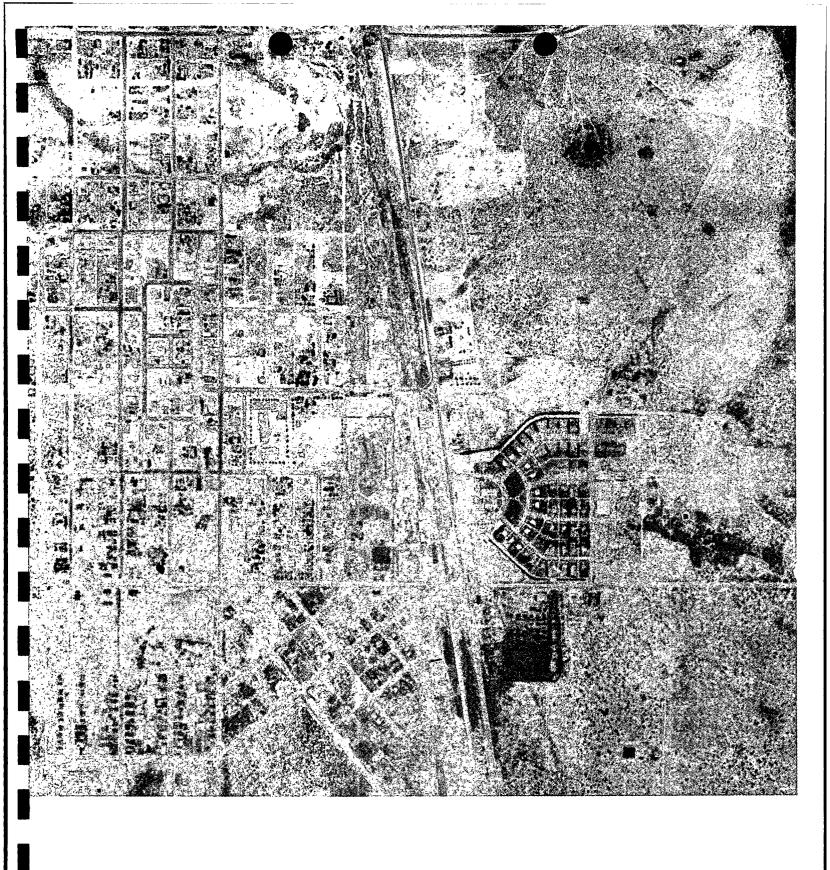


9/22/2004











APPENDIX F

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EDR ENVIRONMENTAL DATABASE REPORT



EDR[™] Environmental Data Resources Inc

The EDR Radius Map with GeoCheck[®]

Runco Inc. Property Street/East Utah Ave. Jal, NM 88252

Inquiry Number: 01286300.1r

October 12, 2004

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road Milford, Connecticut 06460

Nationwide Customer Service

 Telephone:
 1-800-352-0050

 Fax:
 1-800-231-6802

 Internet:
 www.edrnet.com

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Map Findings Summary	4
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Orphan Summary	9
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

PROPERTY STREET/EAST UTAH AVE. JAL, NM 88252

COORDINATES

 Latitude (North):
 32.112457 - 32° 6' 44.8"

 Longitude (West):
 103.189332 - 103° 11' 21.6"

 Universal Tranverse Mercator:
 Zone 13

 UTM X (Meters):
 670834.3

 UTM Y (Meters):
 3554148.0

 Elevation:
 3038 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: Source:

32103-A2 JAL, NM TX USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL	- National Priority List
Proposed NPL	
CERCLIS	
	System
CERC-NFRAP	. CERCLIS No Further Remedial Action Planned
CORRACTS	. Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
RCRIS-LQG	Resource Conservation and Recovery Information System
RCRIS-SQG	
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

SHWS______ This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

EXECUTIVE SUMMARY

SWF/LF	Solid Waste Facilities
	. Underground Storage Tanks on Indian Land
	Voluntary Remediation Program Sites
	Leaking Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT	
ROD.	
	National Priority List Deletions
	. Facility Index System/Facility Identification Initiative Program Summary Report
	Hazardous Materials Information Reporting System
MLTS	Material Licensing Tracking System
MINES	. Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
	Department of Defense Sites
FUDS	Formerly Used Defense Sites
ODL	
UMTRA	. Uranium Mill Tailings Sites
INDIAN RESERV	Indian Reservations
	. RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
	Toxic Substances Control Act
SSTS	
FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, &
	. Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST	Aboveground Storage Tanks List
	Leaking Aboveground Storage Tank Sites
SPILLS	

BROWNFIELDS DATABASES

US BROWNFIELDS	A Listing of Brownfields Sites
VCP	Voluntary Remediation Program Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed

data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STATE ASTM STANDARD

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the New Mexico Environmental Department's List of Past & Current Leak Sites by Location.

A review of the LUST list, as provided by EDR, and dated 08/03/2004 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
<i>JAL GASCARD</i> TIVO'S GAS STATION	100 E PANTHER 319 MAIN	1/4 - 1/2WSW 1/4 - 1/2W	2 3	6 7
Lower Elevation	Address	Dist / Dir	Map ID	Page
ALLSUPS 1104	445 S 3RD	1/4 - 1/2SW	4	8

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the New Mexico Environmental Department's Listing of Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 08/02/2004 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

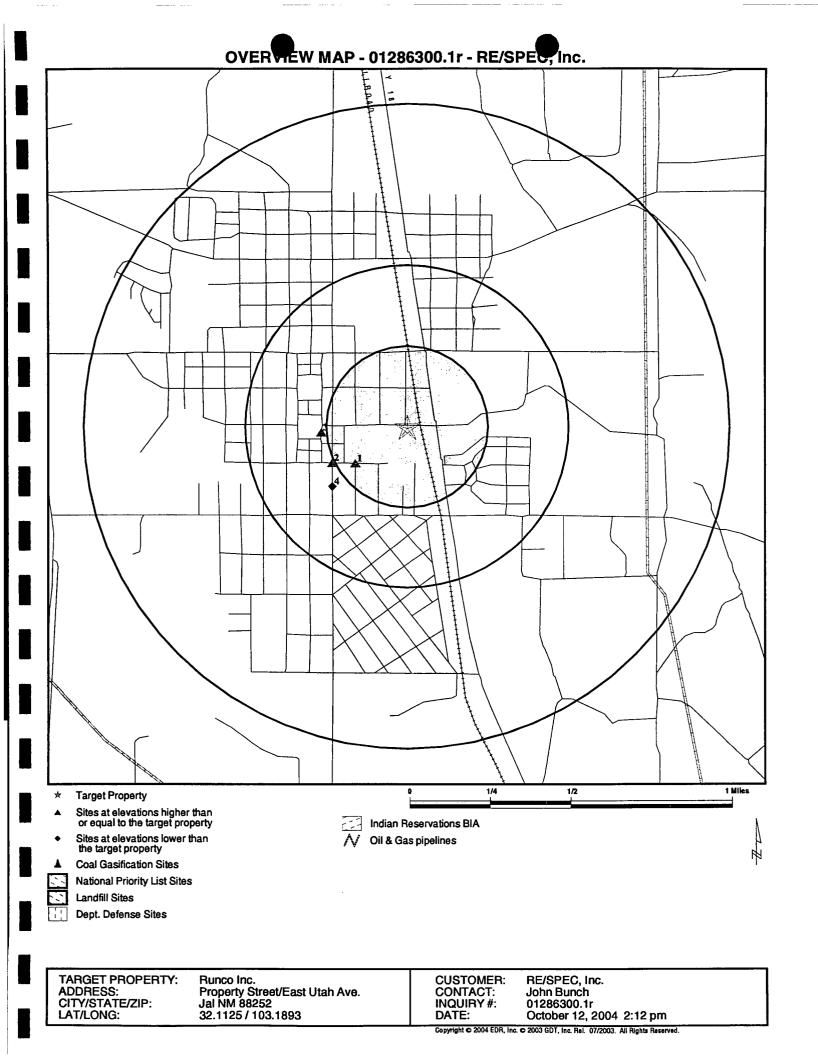
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
JAL PUBLIC SCHOOLS	200 E PANTHER	1/8 - 1/4 SW	1	6

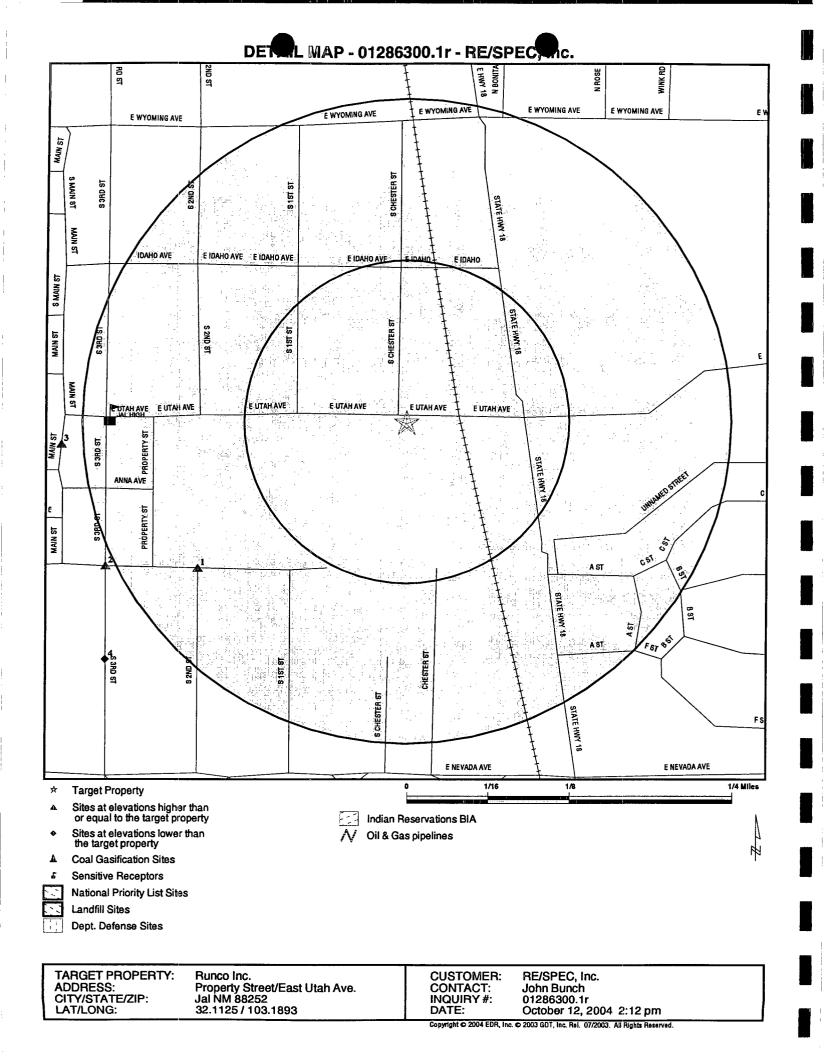
	· · · · · · · · · · · · · · · · · · ·				
	EXECUTIV	E SUMMARY	n an tha an the second s	a ta ga a ta fata. A constante a constante	
-		an e feir a Roserte.		e a l'Anne ann à Anna Anna ann an	

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
YUCCA QUICK STOP 0002346	LUST, UST
EL PASO NAT GAS	LUST
NMSHTD-JAL	LUST
CHAPARRAL SERVICE CO	UST
JAL LABORATORY	UST
CLARKE OIL WELL SERVICING INC A	UST
TEXACO INC	UST
NMSHD JAL PATROL	UST, AST
JAL CHEVERON STATION	UST
EL PASO NAT GAS JAL LABORATORY	RCRIS-SQG, FINDS
EL PASO NAT GAS JAL NO 3 FIELD PLANT	RCRIS-SQG, FINDS
EL PASO NAT GAS CO JAL #4 FIELD PLT	RCRIS-SQG, FINDS
EL PASO NAT GAS JAL NO 1 PLANT	RCRIS-SQG, FINDS

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	<u>< 1/8</u>	<u> 1/8 - 1/4</u>	1/4 - 1/2	<u>1/2 - 1</u>	>1	Total Plotted
FEDERAL ASTM STANDARI	2							
NPL Proposed NPL CERCLIS CERC-NFRAP CORRACTS RCRIS-TSD RCRIS Lg. Quan. Gen. RCRIS Sm. Quan. Gen. ERNS		1.000 1.000 0.500 0.250 1.000 0.500 0.250 0.250 TP	0 0 0 0 0 0 0 NR	0 0 0 0 0 0 0 0 0 0	0 0 0 NR 0 0 NR NR NR	0 0 NR 0 NR NR NR NR NR	NR NR NR NR NR NR NR NR	0 0 0 0 0 0 0 0 0
STATE ASTM STANDARD								
State Haz. Waste State Landfill LUST UST INDIAN UST VCP INDIAN LUST		N/A 0.500 0.500 0.250 0.250 0.500 0.500	N/A 0 0 0 0 0	N/A 0 1 0 0 0	N/A 0 3 NR NR 0 0	N/A NR NR NR NR NR NR	N/A NR NR NR NR NR	N/A 0 3 1 0 0 0
FEDERAL ASTM SUPPLEME	ENTAL							
CONSENT ROD Delisted NPL FINDS HMIRS MLTS MINES NPL Liens PADS DOD FUDS ODI UMTRA INDIAN RESERV RAATS TRIS TSCA SSTS FTTS	IPPLEMENTA	1.000 1.000 TP TP 0.250 TP TP 1.000 1.000 0.500 0.500 1.000 TP TP TP TP	0 0 0 NRR 0 RR 0 0 0 0 0 0 NRR NR NR 0 0 0 0 0 0 NRR NR NR NR	0 0 0 R R R 0 R R 0 0 0 0 0 R R R R R R	0 0 0 R NR NR NR 0 0 0 0 NR	0 0 0 R R R R R N 0 0 R R O R R R R R N N 0 0 R R N N N N N N N N N	NR R R R R R R R R R R R R R R R R R R	
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST LAST		TP TP	NR NR	NR NR	NR NR	NR NR	NR NR	0 0

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MAP FINDINGS SUMMARY

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Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted	
SPILLS		TP	NR	NR	NR	NR	NR	0	
BROWNFIELDS DATABASES									
US BROWNFIELDS VCP		0.500 0.500	0 0	0 0	0 0	NR NR	NR NR	0 0	

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID Direction	MAP FINDINGS				
Distance Distance (ft. Elevation	.) Site			Database(s)	EDR ID Numbe EPA ID Numbe
	Coal Gas Site Search:	EDR does not presently	have coal gas site information available	in this state.	
1 SW 1/8-1/4 1037 ft.	JAL PUBLIC SCHOOL 200 E PANTHER JAL, NM 88252	S		UST	1000637537 N/A
Relative: Higher Actual: 3041 ft.	UST: Facility ID: Tank ID: Total Tanks: Tank Status: Owner ID: Owner: Owner Address:	28713 26200 1 REMOVED 6592 JAL PUBLIC SCHOOLS 200 EAST PANTHER JAL, NM 88252			
2 WSW 1/4-1/2 1358 ft.	JAL GASCARD 100 E PANTHER JAL, NM 88252			LUST UST	U003191740 N/A
Relative: Higher	LUST: Form Number: Priority Rank:		1227 0		
Actual: 3047 ft.	Facility ID: Status: Mitigating Factor S Project Manager: Property Damage Date Release Rel Contaminant Satu Actual/ Imminent Actual/ Imminent Actual/ Imminent Non-aqueous Pha Status Date : Land and Water u Soil Contaminatio Ground Water Plu Score For Priority Score For Priority Score For Priority Total Score To As	Impacts: ported: irated Soil Attrib : Explosive Vapor Impct Attri Contam Water Supply Attril Toxic Vapor Impct Attrib: ase Liquid Attrib: ise Attributes : in Attributes : ime Attributes : 1 Criteria : 2 Criteria :	b: 0 0 08/31/92 0 0 0 0 0 0 0 0 0 0 0 0 0		
	Ecological : UST: Facility ID: Tank ID: Total Tanks: Tank Status: Owner ID: Owner: Owner Address:	1431 18308 4 REMOVED 344 JACK WALSTAD OIL CO 317 NORTH LEECH HOBBS, NM 88240	0 INC		

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MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

JAL GASCARD (Continued)

U003191740

Facility ID: Tank ID: Total Tanks: Tank Status: Owner ID: Owner: Owner Address:	1431 18309 4 REMOVED 344 JACK WALSTAD OIL CO INC 317 NORTH LEECH HOBBS, NM 88240
	1431 18310 4 REMOVED 344 JACK WALSTAD OIL CO INC 317 NORTH LEECH HOBBS, NM 88240
Facility ID: Tank ID: Total Tanks: Tank Status: Owner ID: Owner: Owner Address:	1431 18311 4 REMOVED 344 JACK WALSTAD OIL CO INC 317 NORTH LEECH HOBBS, NM 88240

3 TIVO'S GAS STATION West 319 MAIN 1/4-1/2 JAL,, NM 88252

1407 ft.		
Relative: Higher	LUST: Form Number: Priority Rank:	2454 0
Actual: 3065 ft.	Facility ID: Status: Mitigating Factor Score: Project Manager: Property Damage Impacts: Date Release Reported: Contaminant Saturated Soil Attrib : Actual/ Imminent Explosive Vapor Impet Attrib Actual/ Imminent Contam Water Supply Attrib Actual/ Imminent Toxic Vapor Impet Attrib: Non-aqueous Phase Liquid Attrib: Status Date : Land and Water use Attributes : Soil Contamination Attributes : Score For Priority 1 Criteria : Score For Priority 2 Criteria : Score For Priority 3 Criteria : Total Score To Assign Relative Rank : Ecological :	

LUST S101647325 N/A MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site 4 ALLSUPS 110 SW 445 S 3RD

Database(s) EDR ID Number EPA ID Number LUST S105959708

N/A

4 SW 1/4-1/2 1564 ft.	ALLSUPS 1104 445 S 3RD JAL,, NM 88252	
Relative:	LUST:	
Lower	Form Number:	1596
	Priority Rank:	0
Actual:	Facility ID:	847
3035 ft.	Status:	NO FURTHER ACTION REQUIRED
	Mitigating Factor Score:	0
	Project Manager:	TC (THOMAS) SHAPARD
	Property Damage Impacts:	No
	Date Release Reported:	//
	Contaminant Saturated Soil Attrib :	0
	Actual/ Imminent Explosive Vapor Impct Attri	
	Actual/ Imminent Contam Water Supply Attrib	
	Actual/ Imminent Toxic Vapor Impct Attrib:	0
	Non-aqueous Phase Liquid Attrib:	0
	Status Date :	12/01/92
	Land and Water use Attributes :	0
	Soil Contamination Attributes :	0
	Ground Water Plume Attributes :	0
	Score For Priority 1 Criteria :	0
	Score For Priority 2 Criteria :	0
	Score For Priority 3 Criteria :	0
	Total Score To Assign Relative Rank :	0
	Ecological :	0

TC01286300.1r Page 8

City	EDR ID	Site Name	Site Address	Zip Data	Database(s)
JAL	U003191731	J003191731 CHAPARRAL SERVICE CO	HWY 128	88252 UST	
JAL	1000345400	000345400 EL PASO NAT GAS JAL LABORATORY	HWY 18 1 BLK S OF UTAH ST		RCRIS-SQG, FINDS
JAL	U003191741	J003191741 JAL LABORATORY	HWY 18		ц
JAL	U003191732	1003191732 CLARKE OIL WELL SERVICING INC A	ANDREWS HWY	88252 UST	ц Т
JAL	U003191752	U003191752 TEXACO INC	CARLSBAD HWY	88252 UST	ц
JAL	1000345393	000345393 EL PASO NAT GAS JAL NO 3 FIELD PLANT	2 MI EAST OF HWY 18 5 MI N OF	88252 RCF	RCRIS-SQG, FINDS
JAL	1000345383	EL PASO NAT GAS CO JAL #4 FIELD PLT	11MI ON HWY #18	88252 RCF	RCRIS-SQG, FINDS
JAL	U003191758	J003191758 YUCCA QUICK STOP 0002346	INTERSECTION OF ST HWY	88252 LUS	LUST, UST
JAL	U003191747	J003191747 NMSHD JAL PATROL	3 MILES S OF JAL ON SR 18 MP 60	88252 UST, AST	T, AST
JAL	U003191738	0003191738 JAL CHEVERON STATION	STATE HWY 18	88252 UST	ц.
JAL	1000345394	EL PASO NAT GAS JAL NO 1 PLANT	2 MI W OF HWY #18 4 MI S OF	88252 RCF	RCRIS-SQG, FINDS
JAL.	S106426143	EL PASO NAT GAS	HWY 18	88252 LUST	ST
JAL,	S101647324	S101647324 NMSHTD-JAL	3 MILES S OF JAL ON SR 18 MP 6 0	88252 LUST	ST

ORPHAN SUMMARY

TC01286300.1r Page 9

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/30/04 Date Made Active at EDR: 09/09/04 Database Release Frequency: Semi-Annually

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites Source: EPA Telephone: N/A

Date of Government Version: 07/22/04 Date Made Active at EDR: 09/09/04 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 08/03/04 Elapsed ASTM days: 37 Date of Last EDR Contact: 08/03/04

EPA Region 6 Telephone: 214-655-6659

EPA Region 8 Telephone: 303-312-6774

> Date of Data Arrival at EDR: 08/03/04 Elapsed ASTM days: 37 Date of Last EDR Contact: 08/03/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/17/04 Date Made Active at EDR: 08/10/04 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 06/23/04 Elapsed ASTM days: 48 Date of Last EDR Contact: 09/21/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 05/17/04 Date of Data Arrival at EDR: 06/23/04 Elapsed ASTM days: 48 Date Made Active at EDR: 08/10/04 Date of Last EDR Contact: 09/21/04 **Database Release Frequency: Quarterly CORRACTS:** Corrective Action Report Source: EPA Telephone: 800-424-9346 CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. Date of Data Arrival at EDR: 06/25/04 Date of Government Version: 06/15/04 Date Made Active at EDR: 08/10/04 Elapsed ASTM days: 46 Date of Last EDR Contact: 09/07/04 Database Release Frequency: Semi-Annually **RCRIS:** Resource Conservation and Recovery Information System Source: EPA Telephone: 800-424-9346 Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. Date of Data Arrival at EDR: 08/24/04 Date of Government Version: 08/10/04 Date Made Active at EDR: 10/11/04 Elapsed ASTM days: 48 Date of Last EDR Contact: 08/24/04 **Database Release Frequency: Varies** ERNS: Emergency Response Notification System Source: National Response Center, United States Coast Guard Telephone: 202-260-2342 Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. Date of Data Arrival at EDR: 01/26/04 Date of Government Version: 12/31/03 Date Made Active at EDR: 03/12/04 Elapsed ASTM days: 46 **Database Release Frequency: Annually** Date of Last EDR Contact: 07/26/04 FEDERAL ASTM SUPPLEMENTAL RECORDS BRS: Biennial Reporting System Source: EPA/NTIS Telephone: 800-424-9346 The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities. Date of Last EDR Contact: 09/20/04 Date of Government Version: 12/01/01 **Database Release Frequency: Biennially** Date of Next Scheduled EDR Contact: 12/13/04

CONSENT: Superfund (CERCLA) Consent Decrees

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/05/04 Database Release Frequency: Varies Date of Next Scheduled EDR Contact. 12/13/04

Date of Next Scheduled EDR Contact: 10/25/04

Date of Last EDR Contact: 07/30/04

ROD: Records Of Decision Source: EPA Telephone: 703-416-0223 Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup. Date of Last EDR Contact: 07/07/04 Date of Government Version: 06/07/04 **Database Release Frequency: Annually** Date of Next Scheduled EDR Contact: 10/04/04 **DELISTED NPL:** National Priority List Deletions Source: EPA Telephone: N/A The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Date of Government Version: 07/30/04 Date of Last EDR Contact: 08/03/04 Database Release Frequency: Quarterly Date of Next Scheduled EDR Contact: 11/01/04 FINDS: Facility Index System/Facility Identification Initiative Program Summary Report Source: EPA Telephone: N/A Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail, EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System). Date of Government Version: 04/08/04 Date of Last EDR Contact: 07/06/04 Date of Next Scheduled EDR Contact: 10/04/04 Database Release Frequency: Quarterly HMIRS: Hazardous Materials Information Reporting System Source: U.S. Department of Transportation Telephone: 202-366-4555 Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. Date of Government Version: 02/17/04 Date of Last EDR Contact: 04/20/04 Date of Next Scheduled EDR Contact: 07/19/04 **Database Release Frequency: Annually** MLTS: Material Licensing Tracking System Source: Nuclear Regulatory Commission Telephone: 301-415-7169 MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis. Date of Government Version: 07/15/04 Date of Last EDR Contact: 07/06/04 Database Release Frequency: Quarterly Date of Next Scheduled EDR Contact: 10/04/04 MINES: Mines Master Index File Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Date of Government Version: 06/04/04 Date of Last EDR Contact: 09/28/04 Database Release Frequency: Semi-Annually Date of Next Scheduled EDR Contact: 12/27/04 NPL LIENS: Federal Superfund Liens Source: EPA Telephone: 202-564-4267 Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91 Date of Last EDR Contact: 08/23/04 Database Release Frequency: No Update Planned Date of Next Scheduled EDR Contact: 11/22/04 PADS: PCB Activity Database System Source: EPA Telephone: 202-564-3887 PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities. Date of Government Version: 06/29/04 Date of Last EDR Contact: 08/10/04 Database Release Frequency: Annually Date of Next Scheduled EDR Contact: 11/08/04 DOD: Department of Defense Sites Source: USGS Telephone: 703-692-8801 This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands. Date of Government Version: 10/01/03 Date of Last EDR Contact: 08/12/04 Database Release Frequency: Semi-Annually Date of Next Scheduled EDR Contact: 11/08/04 **INDIAN RESERV:** Indian Reservations Source: USGS Telephone: 202-208-3710 This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres Date of Government Version: 10/01/03 Date of Last EDR Contact: 08/12/04 Database Release Frequency: Semi-Annually Date of Next Scheduled EDR Contact: 11/08/04 FUDS: Formerly Used Defense Sites Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions. Date of Government Version: 12/31/03 Date of Last EDR Contact: 07/06/04 **Database Release Frequency: Varies** Date of Next Scheduled EDR Contact: 10/04/04 STORMWATER: Storm Water General Permits Source: Environmental Protection Agency Telephone: 202-564-0746 A listing of all facilities with Storm Water General Permits. Date of Government Version: 02/04/04 Date of Last EDR Contact: 07/06/04 Date of Next Scheduled EDR Contact: 10/04/04 Database Release Frequency: Quarterly RMP: Risk Management Plans Source: Environmental Protection Agency Telephone: 202-564-8600 When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures

and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/27/04 Database Release Frequency: Varies	Date of Last EDR Contact: 08/23/04 Date of Next Scheduled EDR Contact: 11/22/04
JMTRA: Uranium Mill Tailings Sites Source: Department of Energy Telephone: 505-845-0011	nt use in potienal defense programs. When the mills
Uranium ore was mined by private companies for federal governme shut down, large piles of the sand-like material (mill tailings) rema the ore. Levels of human exposure to radioactive materials from were used as construction materials before the potential health h 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands Energy.	ain after uranium has been extracted from I the piles are low; however, in some cases tailings azards of the tailings were recognized. In 1978, , Utah, Colorado, New Mexico, Texas, North Dakota,
Date of Government Version: 04/22/04 Database Release Frequency: Varies	Date of Last EDR Contact: 09/20/04 Date of Next Scheduled EDR Contact: 12/20/04
DDI: Open Dump Inventory Source: Environmental Protection Agency Telephone: 800-424-9346	with one or more of the Dott 267 or Dott 269
An open dump is defined as a disposal facility that does not comply Subtitle D Criteria.	with one of more of the Part 257 of Part 256
Date of Government Version: 06/30/85 Database Release Frequency: No Update Planned	Date of Last EDR Contact: 05/23/95 Date of Next Scheduled EDR Contact: N/A
 RCRA Administrative Action Tracking System Source: EPA Telephone: 202-564-4104 RCRA Administration Action Tracking System. RAATS contains reconstruction pertaining to major violators and includes administrative and civil actions after September 30, 1995, data entry in the RAATS data the database for historical records. It was necessary to terminate made it impossible to continue to update the information contained 	actions brought by the EPA. For administration pase was discontinued. EPA will retain a copy of RAATS because a decrease in agency resources
Date of Government Version: 04/17/95 Database Release Frequency: No Update Planned	Date of Last EDR Contact: 09/07/04 Date of Next Scheduled EDR Contact: 12/06/04
 TRIS: Toxic Chemical Release Inventory System Source: EPA Telephone: 202-566-0250 Toxic Release Inventory System. TRIS identifies facilities which release Inventory System. 	ase toxic chemicals to the air, water and
Date of Government Version: 12/31/02 Database Release Frequency: Annually	Date of Last EDR Contact: 09/20/04 Date of Next Scheduled EDR Contact: 12/20/04
ISCA: Toxic Substances Control Act Source: EPA Telephone: 202-260-5521	
Toxic Substances Control Act. TSCA identifies manufacturers and in TSCA Chemical Substance Inventory list. It includes data on the site.	•
Date of Government Version: 12/31/02 Database Release Frequency: Every 4 Years	Date of Last EDR Contact: 09/07/04 Date of Next Scheduled EDR Contact: 12/06/04
FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insection Source: EPA	ide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control A

Date of Government Version: 04/13/04 Database Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01 Database Release Frequency: Annually Date of Last EDR Contact: 07/20/04 Date of Next Scheduled EDR Contact: 10/18/04

Date of Next Scheduled EDR Contact: 12/20/04

Date of Last EDR Contact: 09/07/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/13/04 Database Release Frequency: Quarterly Date of Last EDR Contact: 09/07/04 Date of Next Scheduled EDR Contact: 12/20/04

STATE OF NEW MEXICO ASTM STANDARD RECORDS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list. Source: EPA

Telephone: 703-413-0223

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A Date Made Active at EDR: N/A Database Release Frequency: N/A Date of Data Arrival at EDR: N/A Elapsed ASTM days: N/A Date of Last EDR Contact: 07/26/04

SWF/LF: Solid Waste Facilities

Source: New Mexico Environment Department

Telephone: 505-827-0347

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/23/03 Date Made Active at EDR: 01/20/04 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 12/23/03 Elapsed ASTM days: 28 Date of Last EDR Contact: 09/07/04

LUST: Leaking Underground Storage Tank Priorization Database

Source: New Mexico Environment Department

Telephone: 505-984-1741

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/03/04 Date Made Active at EDR: 09/23/04 Database Release Frequency: Varies Date of Data Arrival at EDR: 08/03/04 Elapsed ASTM days: 51 Date of Last EDR Contact: 08/02/04

UST: Listing of Underground Storage Tanks Source: New Mexico Environment Department Telephone: 505-984-1741 Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. Date of Data Arrival at EDR: 08/03/04 Date of Government Version: 08/02/04 Elapsed ASTM days: 30 Date Made Active at EDR: 09/02/04 Date of Last EDR Contact: 08/02/04 **Database Release Frequency: Varies** INDIAN UST: Underground Storage Tanks on Indian Land Source: EPA Region 9 Telephone: 415-972-3368 Date of Government Version: 06/21/04 Date of Data Arrival at EDR: 06/21/04 Elapsed ASTM days: 36 Date Made Active at EDR: 07/27/04 **Database Release Frequency: Varies** Date of Last EDR Contact: 08/23/04 INDIAN LUST: Leaking Underground Storage Tanks on Indian Land Source: Environmental Protection Agency Telephone: 415-972-3372 LUSTs on Indian land in Arizona, California, New Mexico and Nevada Date of Data Arrival at EDR: 06/21/04 Date of Government Version: 06/18/04 Date Made Active at EDR: 07/27/04 Elapsed ASTM days: 36 **Database Release Frequency: Varies** Date of Last EDR Contact: 08/23/04 INDIAN UST: USTs on Indian Land Source: Environmental Protection Agency, Region 6 Telephone: 214-665-7591 Date of Data Arrival at EDR: 08/09/04 Date of Government Version: 08/09/04 Date Made Active at EDR: 09/23/04 Elapsed ASTM days: 45 **Database Release Frequency: Varies** Date of Last EDR Contact: 08/09/04 VCP: Voluntary Remediation Program Sites Source: Environment Department Telephone: 505-827-2754 Sites involved in the Voluntary Remediation Program. Date of Data Arrival at EDR: 06/10/04 Date of Government Version: 03/31/04 Date Made Active at EDR: 07/27/04 Elapsed ASTM days: 47 **Database Release Frequency: Varies** Date of Last EDR Contact: 07/27/04 INDIAN LUST: Leaking Underground Storage Tanks on Indian Land Source: EPA Region 6 Telephone: 214-665-6597 LUSTs on Indian land in New Mexico and Oklahmoa. Date of Data Arrival at EDR: 02/26/04 Date of Government Version: 02/26/04 Date Made Active at EDR: 03/17/04 Elapsed ASTM davs: 20 Date of Last EDR Contact: 08/09/04 **Database Release Frequency: Varies** STATE OF NEW MEXICO ASTM SUPPLEMENTAL RECORDS AST: Aboveground Storage Tanks List Source: Environment Department Telephone: 505-984-1926 Aboveground tanks that have been inspected by the State Fire Marshal.

Date of Government Version: 07/02/04 Database Release Frequency: Varies

LAST: Leaking Aboveground Storage Tank Sites Source: Environment Department Telephone: 505-984-1926 A listing of leaking aboveground storage tank sites.

> Date of Government Version: 09/13/04 Database Release Frequency: Quarterly

SPILLS: Spill Data Source: Environment Department Telephone: 505-827-0166 Hazardous materials spills data.

> Date of Government Version: 04/06/04 Database Release Frequency: Varies

Date of Last EDR Contact: 09/27/04 Date of Next Scheduled EDR Contact: 12/27/04

Date of Last EDR Contact: 09/03/04 Date of Next Scheduled EDR Contact: 11/01/04

Date of Last EDR Contact: 07/26/04 Date of Next Scheduled EDR Contact: 10/25/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency

Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A Database Release Frequency: Semi-Annually Date of Last EDR Contact: N/A Date of Next Scheduled EDR Contact: N/A

VCP: Voluntary Remediation Program Sites Source: Environment Department Telephone: 505-827-2754 Sites involved in the Voluntary Remediation Program.

Date of Government Version: 03/31/04 **Database Release Frequency: Varies**

Date of Last EDR Contact: 07/27/04 Date of Next Scheduled EDR Contact: 10/25/04

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

- Source: PennWell Corporation
- Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its

fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined. EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical

database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

- **Daycare Centers: Licensed Child Day Care Providers**
- Source: Office of Child Development

Telephone: 505-827-7946

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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TARGET PROPERTY ADDRESS

RUNCO INC. PROPERTY STREET/EAST UTAH AVE. JAL, NM 88252

TARGET PROPERTY COORDINATES

Latitude (North):	32.112457 - 32° 6′ 44.8″ 103.189331 - 103° 11' 21.6"
Longitude (West):	
Universal Tranverse Mercator:	
UTM X (Meters):	670834.3
UTM Y (Meters):	3554148.0
Elevation:	3038 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and

2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

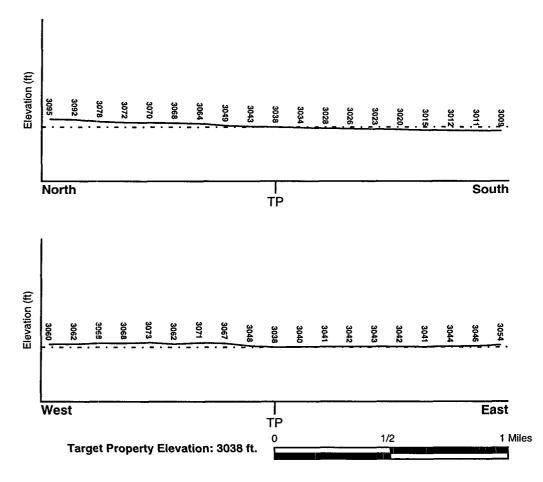
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map: 32103-A2 JAL, NM TX General Topographic Gradient: General SE Source: USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County LEA, NM	FEMA Flood <u>Electronic Data</u> Not Available
Flood Plain Panel at Target Property:	Not Reported
Additional Panels in search area:	Not Reported
NATIONAL WETLAND INVENTORY NWI Quad at Target Property JAL	NWI Electronic Data Coverage Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*: Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Stratifed Sequence

Era:	Cenozoic	Category:
System:	Quaternary	•••
Series:	Quaternary	
Code:	Q (decoded above as Era, System & S	Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	PYOTE	
Soil Surface Texture:	fine sand	
Hydrologic Group:	Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.	
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.	
Hydric Status: Soil does not meet the requirements for a hydric soil.		
Corrosion Potential - Uncoated Steel: MODERATE		

Depth to Bedrock Min:	> 60 inches
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Depth to	Bedrock Max:	> 60 inches

			Soil Layer	Information			
	Βοι	indary		Classi	fication		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	36 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.80 Min: 6.60
2	36 inches	74 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 6.60
3	74 inches	80 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 6.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	fine sandy loam loamy fine sand sandy loam
Surficial Soil Types:	fine sandy loam loamy fine sand sandy loam
Shallow Soil Types:	sandy clay loam
Deeper Soil Types:	indurated fine sand gravelly - loamy fine sand sandy loam clay loam loamy sand loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1 2	USGS0747099 USGS0747104	1/4 - 1/2 Mile ENE 1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No PWS System Found		·····

Note: PWS System location is not always the same as well location.

STATE OIL/GAS WELL INFORMATION

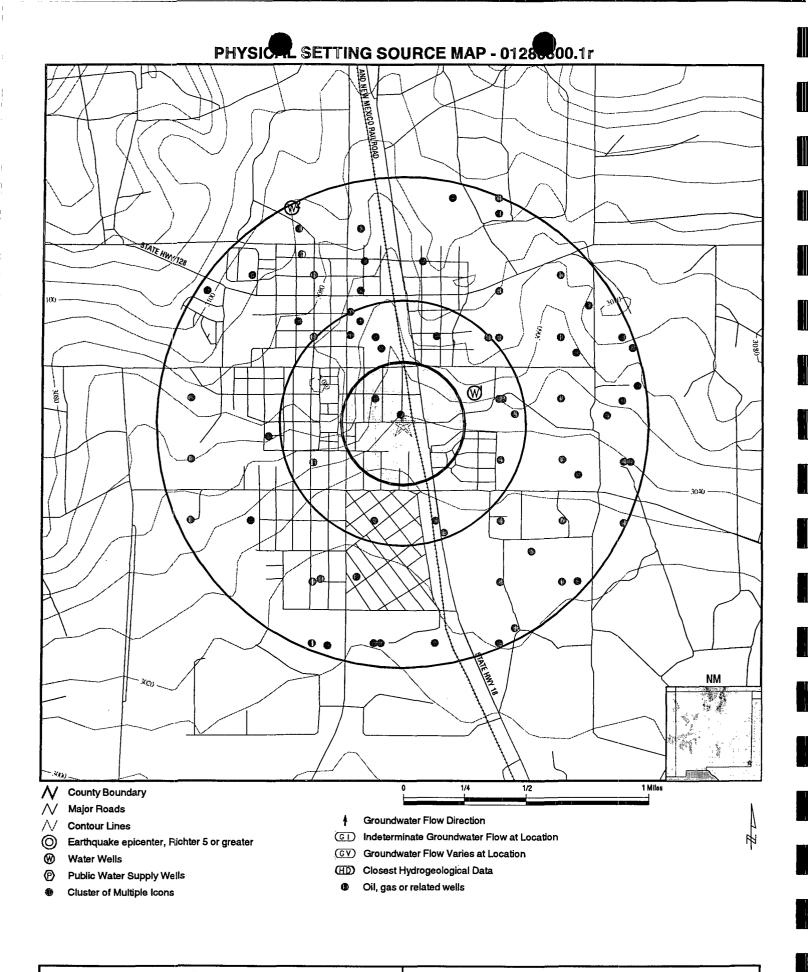
DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1/2 - 1 Mile NNE	1/2 - 1 Mile NNE
1/2 - 1 Mile NNE	1/2 - 1 Mile NNE
1/2 - 1 Mile NNW	1/2 - 1 Mile NNW
1/2 - 1 Mile NNW	1/2 - 1 Mile NNW
1/2 - 1 Mile North	1/2 - 1 Mile NW
1/2 - 1 Mile NNW	1/2 - 1 Mile NNW
1/2 - 1 Mile NNW	1/2 - 1 Mile NE
1/2 - 1 Mile NNW	1/2 - 1 Mile NW
1/2 - 1 Mile NE	1/2 - 1 Mile ENE
1/2 - 1 Mile NNW	1/4 - 1/2 Mile NNW
1/2 - 1 Mile NW	1/4 - 1/2 Mile NNW
1/4 - 1/2 Mile NNE	1/2 - 1 Mile NW
1/2 - 1 Mile NW	1/2 - 1 Mile NW
1/2 - 1 Mile NW	1/4 - 1/2 Mile NNW
1/4 - 1/2 Mile NE	1/2 - 1 Mile NE
1/2 - 1 Mile ENE	1/2 - 1 Mile ENE
1/2 - 1 Mile ENE	1/2 - 1 Mile ENE
1/4 - 1/2 Mile NNW	1/2 - 1 Mile ENE

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)
1/2 - 1 Mile East
1/2 - 1 Mile West
1/4 - 1/2 Mile ENE
1/2 - 1 Mile East 1/2 - 1 Mile East
0 - 1/8 Mile NNW
1/2 - 1 Mile West
1/2 - 1 Mile West 1/4 - 1/2 Mile ESE
1/4 - 1/2 Mile ESE
1/2 - 1 Mile ESE
1/2 - 1 Mile ESE 1/2 - 1 Mile East
1/2 - 1 Mile East 1/2 - 1 Mile East
1/2 - 1 Mile ESE
1/2 - 1 Mile WSW
1/4 - 1/2 Mile SSE
1/4 - 1/2 Mile SSE
1/4 - 1/2 Mile SSE
1/2 - 1 Mile ESE
1/2 - 1 Mile ESE
1/2 - 1 Mile ESE
1/2 - 1 Mile SE
1/2 - 1 Mile SSW
1/2 - 1 Mile SSW
1/2 - 1 Mile SSE 1/2 - 1 Mile SSE
1/2 - 1 Mile SSE
1/2 - 1 Mile SE
1/2 - 1 Mile SSE
1/2 - 1 Mile South
1/2 - 1 Mile South
1/2 - 1 Mile SSW
1/2 - 1 Mile SSW 1/2 - 1 Mile SSW
1/2 - 1 Mile SSW
1/2 - 1 Mile SSW

DISTANCE FROM TP (Miles) 1/2 - 1 Mile West 1/8 - 1/4 Mile NW 1/4 - 1/2 Mile ENE 1/4 - 1/2 Mile ENE 1/4 - 1/2 Mile ENE 1/2 - 1 Mile East 1/2 - 1 Mile East 1/4 - 1/2 Mile East 1/2 - 1 Mile East 1/2 - 1 Mile West 1/4 - 1/2 Mile ESE 1/2 - 1 Mile ESE 1/2 - 1 Mile ESE 1/2 - 1 Mile East 1/2 - 1 Mile East 1/4 - 1/2 Mile WSW 1/2 - 1 Mile WSW 1/4 - 1/2 Mile SSW 1/4 - 1/2 Mile SSE 1/4 - 1/2 Mile SSE 1/2 - 1 Mile SE 1/2 - 1 Mile ESE 1/2 - 1 Mile ESE 1/4 - 1/2 Mile SSE 1/2 - 1 Mile SSW 1/2 - 1 Mile SE 1/2 - 1 Mile SSW 1/2 - 1 Mile SSE 1/2 - 1 Mile SE 1/2 - 1 Mile SE 1/2 - 1 Mile South 1/2 - 1 Mile SSE 1/2 - 1 Mile South 1/2 - 1 Mile SSW 1/2 - 1 Mile SSW 1/2 - 1 Mile SSW

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TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG: Runco Inc. Property Street/East Utah Ave. Jal NM 88252 32.1125 / 103.1893 CUSTOMER: RE/SPEC, Inc. CONTACT: John Bunch INQUIRY #: 01286300.1r DATE: October 12, 2004 2:12 pm Copyright © 2004 EDR, Inc. © 2003 GDT, Inc. Rel. 07/2003. All Rights Reserved.

57

Map ID Direction Distance							
Elevation						Database	EDR ID Number
1 ENE 1/4 - 1/2 Mile Higher						FED USGS	USGS0747099
Agency: Site Name: Dec. Latitude Dec. Longitu Coord Sys: State: County: Altitude: Hydrologic co Topographic	de: ode:	USGS 25S.37E.20.231342A 32.11429 -103.18435 NAD83 NM Lea County 3071.70 13070007 Not Reported	Site ID:		3	320651103110202	
Site Type: Const Date: Well Type: Primary Aqui Aquifer type: Well depth:		Ground-water other than Spring Not Reported Single well, other than collector of 110AVMB Not Reported 510	Inven E or Ranne		1	Not Reported	
Hole depth: Project no:		Not Reported Not Reported	Source	:	1	Not Reported	
Ground-wate	r levels, Numi Feet below	ber of Measurements: 5 Feet to			Feet belo	w Feet to	,
Date	Surface	Sealevel		Date	Surface	Sealevel	
1996-02-14 1986-03-13 1970-12-16	36.62 39.50			1991-06-05 1976-01-08	38.41		
2 NNW 1/2 - 1 Mile Higher						FED USGS	USGS0747104
Agency: Site Name: Dec. Latitude Dec. Longitu Coord Sys: State: County: Altitude: Hydrologic c Topographic	de: ode:	USGS 25S.37E.18.421110 32.12513 -103.19712 NAD83 NM Lea County 3107.20 13070007 Not Reported	Site ID:	:	3	320730103114801	
Site Type: Const Date: Well Type: Primary Aqui Aquifer type: Well depth:		Ground-water other than Spring Not Reported Single well, other than collector of 110AVMB Not Reported 100	Inven E or Ranne		1	Not Reported	
Hole depth: Project no:		Not Reported Not Reported	Source	:	1	Not Reported	

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Ground-water levels, Number of Measurements: 9

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2001-03-07	51.06		1996-02-14	51.69	
1991-06-11	52.94		1986-03-13	54.41	
1981-03-30	58.25				
1976-01-06	60.31				
Note: A ne	earby site that	taps the same aquifer was being pumped.			
1970-12-16	61.42				
Note: A ne	earby site that	taps the same aquifer was being pumped.			

1968-02-29 62.85 1965-10-29 63.82

Direction Distance

Database EDR ID Number

INE /2 - 1 Mile			OIL_GAS	NMOG054989
Api ID:	3002511641	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7 RVRS		027	
Well Name:	SOUTH LANGLIE JAL UNIT	County ID:	25	
County Name:	Lea	Operator ID:	4115	
Op. Name:	CHAPARRAL ENERGY INC			
Latitude:	32.12561			
Longitude:	-103.1855	Section:	17	
Township:	25.0\$	Range:	37E	
Unit ID:	N	Ft. N/S Dist:	990	
Ft. N/S dir:	S	Ft. E/W Dist:	2310	
Ft. E/W Dir:	W	Elevation:	3101 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	
· · · · · · · · · · · · · · · · · · ·			· •	
NE 2 - 1 Mile			OIL_GAS	NMOG055060
Api ID:	3002511635	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 RVRS-Q-	GRXXXBUDRG	094	

County ID:

Section:

Range:

Ft. N/S Dist:

Ft. E/W Dist:

Elevation:

Compdate:

Datasource:

Operator ID:

25

17

37E

990

1980

Ongard

Not Reported

Not Reported

OIL_GAS

NMOG071559

185433

NNE 1/2 - 1 Mile

Well Name:

Op. Name: Latitude:

Longitude:

Township:

Ft. N/S dir:

Ft. E/W Dir:

Unit ID:

Depth:

Plugdate:

County Name:

LANGLIE JAL UNIT

KENSON OPERATING COMPANY INC

Lea

32.12561

25.0S

0

S

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0

-103.18226

Not Reported

Api ID:	3002534620	Pool ID:	79240
Pool Name:	JALMAT;TAN-YATES-7 RVF	rs (Pragiliens)	002
Well Name:	LANGLIE A FEDERAL	County ID:	25
County Name:	Lea	Operator ID:	192143
Op. Name:	HERMAN L LOEB		
Latitude:	32.1247		
Longitude:	-103.18225	Section:	17
Township:	25.0S	Range:	37E
Unit ID:	0	Ft. N/S Dist:	660
Ft. N/S dir:	S	Ft. E/W Dist:	1980
Ft. E/W Dir:	E	Elevation:	3091 GL
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

Direction Distance

EDR ID Number Database

NMOG054976

NMOG055023

NNE 1/2 - 1 Mile NMOG006188 OIL_GAS Api ID: 3052510381 Pool ID: 33820 Pool Name: JALMAT; TAN-YATES-7 RVRS (OW) II: 094 Well Name: LANGLIE JAL UNIT County ID: 25 County Name: Lea Operator ID: 0 Op. Name: Not Reported Latitude: 32.1247 -103.18225 Longitude: Section: 17 Township: 25.0S Range: 37E Unit ID: 0 Ft. N/S Dist: 660 Ft. N/S dir: s Ft. E/W Dist: 1980 Ft. E/W Dir: Е Elevation: Not Reported Not Reported Compdate: Depth: 0 Plugdate: Not Reported Datasource: Preongard

NNW 1/2 - 1 Mile

33820 026 25 4115
25
4115
17
37E
330
330
3084 GL
Not Reported
Ongard

NNW 1/2 - 1 Mile

Api ID:	3002511616	Pool ID:	33820
Pool Name:	JALMAT; TAN-YATES-7 RVRS	(OW)ell ID:	025
Well Name:	SOUTH LANGLIE JAL UNIT	County ID:	25
County Name:	Lea	Operator ID:	4115
Op. Name:	CHAPARRAL ENERGY INC		
Latitude:	32.12379		
Longitude:	-103.19614	Section:	18
Township:	25.0S	Range:	37E
Unit ID:	P	Ft. N/S Dist:	330
Ft. N/S dir:	S	Ft. E/W Dist:	990
Ft. E/W Dir:	E	Elevation:	3084 GL
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

OIL_GAS

OIL_GAS

Direction

Distance			Database	EDR ID Numbe
INW /2 - 1 Mile			OIL_GAS	NMOG054837
Api ID:	3002511622	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	004	
Well Name:	B M JUSTIS B	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STO	VALL		
Latitude:	32.12227			
Longitude:	-103.19593	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	A	Ft. N/S Dist:	225	
Ft. N/S dir:	N	Ft. E/W Dist:	925	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	
INW /2 - 1 Mile				NMOG055036
/2 - 1 Mile			OIL_GAS	NMUGU55036
Api ID:	3002511666	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-7	RVRS (OW/ell ID:	002	
Pool Name: Well Name:	JALMAT;TAN-YATES-7 V H JUSTIS	′ RVRS (OW⊉ll ID: County ID:	002 25	
Pool Name: Well Name: County Name:	JALMAT;TAN-YATES-7 V H JUSTIS Lea	[′] RVRS (OWell ID: County ID: Operator ID:	002	
Pool Name: Well Name: County Name: Op. Name:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO	[′] RVRS (OWell ID: County ID: Operator ID:	002 25	
Pool Name: Well Name: County Name: Op. Name: Latitude:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO' 32.12188	RVRS (OWell ID: County ID: Operator ID: VALL	002 25 2175	
Pool Name: Well Name: County Name: Op. Name: Latitude: Longitude:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO 32.12188 -103.19159	r RVRS (OWell ID: County ID: Operator ID: VALL Section:	002 25 2175 20	
Pool Name: Well Name: County Name: Op. Name: Latitude: Longitude: Township:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO 32.12188 -103.19159 25.0S	r RVRS (OWell ID: County ID: Operator ID: VALL Section: Range:	002 25 2175 20 37E	
Pool Name: Well Name: County Name: Op. Name: Latitude: Longitude: Township: Unit ID:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO 32.12188 -103.19159 25.0S D	r RVRS (OW)ell ID: County ID: Operator ID: VALL Section: Range: Ft. N/S Dist:	002 25 2175 20 37E 370	
Pool Name: Well Name: County Name: Op. Name: Latitude: Longitude: Township: Unit ID: Ft. N/S dir:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO 32.12188 -103.19159 25.0S D N	r RVRS (OW)ell ID: County ID: Operator ID: VALL Section: Range: Ft. N/S Dist: Ft. E/W Dist:	002 25 2175 20 37E 370 420	
Pool Name: Well Name: County Name: Op. Name: Latitude: Longitude: Township: Unit ID: Ft. N/S dir: Ft. E/W Dir:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO 32.12188 -103.19159 25.0S D N W	r RVRS (OW)ell ID: County ID: Operator ID: VALL Section: Range: Ft. N/S Dist: Ft. E/W Dist: Elevation:	002 25 2175 20 37E 370 420 Not Reported	
Pool Name: Well Name: County Name: Op. Name: Latitude: Longitude: Township: Unit ID: Ft. N/S dir:	JALMAT;TAN-YATES-7 V H JUSTIS Lea BETTIS BOYLE & STO 32.12188 -103.19159 25.0S D N	r RVRS (OW)ell ID: County ID: Operator ID: VALL Section: Range: Ft. N/S Dist: Ft. E/W Dist:	002 25 2175 20 37E 370 420	

North 1/2 - 1 Mile

Api ID:	3002511663	Pool ID:	33820
Pool Name:	JALMAT; TAN-YATES-7 RVRS (OW/jell ID:	005
Well Name:	B M JUSTIS C	County ID:	25
County Name:	Lea	Operator ID:	2175
Op. Name:	BETTIS BOYLE & STOVALL		
Latitude:	32.12187		
Longitude:	-103.18755	Section:	20
Township:	25.0S	Range:	37E
Unit ID:	C	Ft. N/S Dist:	370
Ft. N/S dir:	N	Ft. E/W Dist:	1670
Ft. E/W Dir:	W	Elevation:	3095 GL
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

OIL_GAS

NMOG055085

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Direction Distance Database EDR ID Number NW 1/2 - 1 Mile OIL_GAS NMOG054951 Api ID: 3002511625 Pool ID: 33820 Pool Name: JALMAT; TAN-YATES-7 RVRS (OW)ell ID: 003 Well Name: SHOLES B 19 County ID: 25 County Name: Operator ID: 5073 Lea Op. Name: CONOCO INC Latitude: 32.12107 Longitude: -103.19934 Section: 19 Township: 25.0S Range: 37E Unit ID: Ft. N/S Dist: в 660 Ft. N/S dir: Ν Ft. E/W Dist: 1980 Ft. E/W Dir: Е Not Reported Elevation: Depth: 0 Compdate: Not Reported Plugdate: Hobbs Not Reported Datasource: NNW 1/2 - 1 Mile OIL_GAS NMOG005886 Api ID: 3052510401 33820 Pool ID: Pool Name: JALMAT; TAN-YATES-7 RVRS (OW) II: 012 Well Name: **B M JUSTIS** County ID: 25 County Name: Operator ID: 0 Lea Op. Name: Not Reported Latitude: 32.12107 Longitude: -103.19508 19 Section: Township: 25.0S 37E Range: Unit ID: Α Ft. N/S Dist: 660 Ν Ft. E/W Dist: Ft. N/S dir: 660 Ft. E/W Dir: Е Elevation: Not Reported Depth: 0 Compdate: Not Reported Plugdate: Datasource: Preongard Not Reported

NNW

1/2 - 1 Mile

Api ID:	3052510403	Pool ID:	33820
Pool Name:	JALMAT; TAN-YATES-7 RVRS	(OW)ell ID:	002
Well Name:	B M JUSTIS	County ID:	25
County Name:	Lea	Operator ID:	0
Op. Name:	Not Reported		
Latitude:	32.12107		
Longitude:	-103.19508	Section:	19
Township:	25.0S	Range:	37E
Unit ID:	A	Ft. N/S Dist:	660
Ft. N/S dir:	N	Ft. E/W Dist:	660
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Preongard

OIL_GAS

NMOG005887

Direction Distance

Database EDR ID Number

NNW 1/2 - 1 Mile

OIL_GAS NMOG006229

Api ID:	3052510402	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (OW)ell ID:	003	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.12107			
Longitude:	-103.19508	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	А	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

NE 1/2 - 1 Mile

/2 - 1 Mile			OIL_GAS	NMOG054945
Api ID:	3002511661	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7 R	VRS (OW)ell ID:	001	
Well Name:	JOHNS FEDERAL	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STOVA	NLL .		
Latitude:	32.12107			
Longitude:	-103.17797	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	А	Ft. N/S Dist:	660	
Ft. N/S dir:	Ν	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	3067 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

NNW 1/2 - 1 Mile

Api ID:	3002511662	Pool ID:	79240
Pool Name:	JALMAT;TAN-YATES-7 RV	rs (Pragicies)	001
Well Name:	JUSTIS A FEDERAL	County ID:	25
County Name:	Lea	Operator ID:	22260
Op. Name:	TENNECO OIL CO		
Latitude:	32.12017		
Longitude:	-103.19188	Section:	20
Township:	25.0S	Range:	37E
Unit ID:	D	Ft. N/S Dist:	990
Ft. N/S dir:	N	Ft. E/W Dist:	330
Ft. E/W Dir:	W	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Hobbs

OIL_GAS

NMOG054839

Direction Distance

EDR ID Number

Database

OIL_GAS

NMOG069159

NW 1/2 - 1 Mile			OIL_GAS	NMOG054940
Api ID:	3002511624	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	002	
Well Name:	SHOLES B 19	County ID:	25	
County Name:	Lea	Operator ID:	5073	
Op. Name:	CONOCO INC			
Latitude:	32.12016			
Longitude:	-103.20248	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	С	Ft. N/S Dist:	990	
Ft. N/S dir:	N	Ft. E/W Dist:	2310	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

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1/2	 1	Μ	il

² - 1 Mile			OIL_GAS	NMOG055014
Api ID:	3002511665	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-7 R\	/RS (OW)ell ID:	003	
Well Name:	B M JUSTIS A	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STOVAL	LL		
Latitude:	32.12016			
Longitude:	-103.18223	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	В	Ft. N/S Dist:	990	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	3081 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

ENE 1/2 - 1 Mile

Api ID:	3002532394	Pool ID:	Not Reported
Pool Name:	Not Reported	Well ID:	002
Well Name:	SALADO	County ID:	25
County Name:	Lea	Operator ID:	191170
Op. Name:	SALADO BRINE SALES		
Latitude:	32.11929		
Longitude:	-103.17602	Section:	20
Township:	25.0S	Range:	37E
Unit ID:	A	Ft. N/S Dist:	1305
Ft. N/S dir:	N	Ft. E/W Dist:	60
Ft. E/W Dir:	E	Elevation:	3073 GL
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

Direction Distance

Database EDR ID Number

NMOG054944

NMOG057613

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OIL_GAS

OIL_GAS

NNW 1/2 - 1 Mile			OIL_GAS	NMOG065370
Api ID:	3002528805	Pool ID:	33820	
Pool Name:	JALMAT: TAN-YATES-7	RVRS (OWell ID:	012	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	6473	
Op. Name:	DOYLE HARTMAN			
Latitude:	32.11891			
Longitude:	-103.19257	Section:	20	
Township;	25.0S	Range:	37E	
Unit ID:	E	Ft. N/S Dist:	1450	
Ft. N/S dir:	N	Ft. E/W Dist:	120	
Ft. E/W Dir:	Ŵ	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	
-	•		-	

NNW 1/4 - 1/2 Mile

Api ID:	3002511660	Pool ID:	96132
Pool Name:	SWD;SEVEN RIVERS-QUEEN	Well ID:	001
Well Name:	CHRISTMAS	County ID:	25
County Name:	Lea	Operator ID:	2175
Op. Name:	BETTIS BOYLE & STOVALL		
Latitude:	32.11836		
Longitude:	-103.19189	Section:	20
Township:	25.0S	Range:	37E
Unit ID:	E	Ft. N/S Dist:	1650
Ft. N/S dir:	Ν	Ft. E/W Dist:	330
Ft. E/W Dir:	W	Elevation:	3076 GL
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

NW 1/2 - 1 Mile

/2 - 1 Mile

Api ID:	3002521279	Pool ID:	Not Reported
Pool Name:	Not Reported	Well ID:	009
Well Name:	B M JUSTIS B	County ID:	25
County Name:	Lea	Operator ID:	2175
Op. Name:	BETTIS BOYLE & STOVALL		
Latitude;	32.11835		
Longitude:	-103.19615	Section:	19
Township:	25.0S	Range:	37E
Unit ID:	н	Ft. N/S Dist:	1650
Ft. N/S dir:	Ν	Ft. E/W Dist:	990
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

125-23

Direction Distance

Database EDR ID Number

- 1/2 Mile			OIL_GAS	NMOG06415
Api ID:	3002527630	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (PRAGICIES)	010	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	6473	
Op. Name:	DOYLE HARTMAN			
Latitude:	32.11756			
_ongitude:	-103.19257	Section:	20	
Township:	25.0S	Range:	37E	
Jnit ID:	E	Ft. N/S Dist:	1940	
Ft. N/S dir:	N	Ft. E/W Dist:	120	
Ft. E/W Dir:	W	Elevation:	3067 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	
		<u></u>	······································	

			-	
Api ID:	3002511669	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	007	
Well Name:	B M JUSTIS B	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STO	VALL		
Latitude:	32.1175			
Longitude:	-103.18656	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	F	Ft. N/S Dist:	1960	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	W	Elevation:	3076 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

NW 1/2 - 1 Mile

Api ID:	3052510406	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	009	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11745			
Longitude:	-103.19508	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	H	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

OIL_GAS

NMOG006220

Direction

EDR ID Number Database

IW /2 - 1 Mile			OIL_GAS	NMOG005945
Api ID:	3052510405	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7 RVRS (I	Praices)	001	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	•		
Latitude:	32.11745			
Longitude:	-103.19508	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	
NW /2 - 1 Mile Api ID: Pool Name: Well Name:	3002512577 DRY & ABND B M JUSTIS	Pool ID: Well ID: County ID:	OIL_GAS 96838 001 25	NMOG056023
County Name:	Lea	Operator ID:	22260	
Op. Name:	TENNECO OIL CO			
Latitude:	32.11745	0	10	
Longitude:	-103.19508	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	H	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660 Nat Damata d	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	365	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	
NW				· · ·
1/2 - 1 Mile			OIL_GAS	NMOG054943
Api ID:	3002511657	Pool ID:	79240	
Pool Name:	JALMAT; TAN-YATES-7 RVRS (001	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	6473	
Op. Name:	DOYLE HARTMAN	•		
l atitudo:	20 11745			

Section:

Range:

Ft. N/S Dist:

Ft. E/W Dist:

Elevation:

Compdate:

Datasource:

Latitude:

Longitude:

Township:

Ft. N/S dir:

Ft. E/W Dir:

Unit ID:

Depth:

Plugdate:

32.11745

25.0S

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-103.19508

Not Reported

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37E

660

1980

Ongard

Not Reported Not Reported

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Direction Distance

EDR ID Number Database

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NMOG056689

NNW 1/4 - 1/2 Mile			OIL_GAS	NMOG055086
Api ID:	3002511668	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	002	
Well Name:	B M JUSTIS A	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STO	VALL		
Latitude:	32.11745			
Longitude:	-103.19082	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	W	Elevation:	3056 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

NE		
1/4 -	1/2	Mile

/4 - 1/2 Mile			OIL_GAS	NMOG064335
Api ID:	3002527837	Pool ID:	Not Reported	
Pool Name:	Not Reported	Well ID:	011	
Well Name:	B M JUSTIS	County ID:	25	
County Name:	Lea	Operator ID:	26485	
Op. Name:	BURLINGTON RESOU	RCES OIL & GAS CO		
Latitude:	32.11744			
Longitude:	-103.18295	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	G	Ft. N/S Dist:	1980	
Ft. N/S dir:	Ν	Ft. E/W Dist:	2210	
Ft. E/W Dir:	E	Elevation:	3071 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

NE 1/2 - 1 Mile

Api ID:	3002520581	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	' RVRS (OWell ID:	008	
Well Name:	B M JUSTIS B	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STO	VALL		
Latitude:	32.11744			
Longitude:	-103.18221	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	G	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	3079 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

OIL_GAS

Direction Distance

Database EDR ID Number

NMOG005888

OIL_GAS

ENE 1/2 - 1 Mile

Api ID:	3052510412	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	002	
Well Name:	B M JUSTIS A	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11744			
Longitude:	-103.17795	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	Ν	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	
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ENE 1/2 - 1 Mile

2 - 1 Mile			OIL_GAS	NMOG005961
Api ID:	3052510423	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-7	'RVRS (OW)ell ID:	002	
Well Name:	CARLSON	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	-		
Latitude:	32.11744			
Longitude:	-103.17368	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	E	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

ENE 1/2 - 1 Mile

Api ID:	3002511683	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7 RVRS (OW) II ID:		002	
Well Name:	CARLSON	County ID:	25	
County Name:	Lea	Operator ID:	23762	
Op. Name:	UNION TEXAS PETROLEUM CORP			
Latitude:	32.11744			
Longitude:	-103.17368	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	E	Ft. N/S Dist:	1980	
Ft. N/S dir:	Ν	Ft. E/W Dist:	660	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

OIL_GAS

NMOG055049



Direction Distance

Database EDR ID Number

NMOG064267

NMOG055002

NE /2 - 1 Mile			OIL_GAS	NMOG062849
Api ID:	3002526335	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (OW)ell ID:	001	
Well Name:	FEDERAL	County ID:	25	
County Name:	Lea	Operator ID:	188294	
Op. Name:	AMERICAN INLAND R	ESOURCES COMPANY LLC		
Latitude:	32.11681			
Longitude:	-103.17294	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	E	Ft. N/S Dist:	2210	
Ft. N/S dir:	N	Ft. E/W Dist:	890	
Ft. E/W Dir:	W	Elevation:	3064 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

NNW 1/4 - 1/2 Mile

Api ID:	3002527664	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7 RV	(RS (PRAGICIES)	001	
Well Name:	JUSTIS CHRISTMAS	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STOVAL	.L		
Latitude:	32.11678			
Longitude:	-103.19041	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	Е	Ft. N/S Dist:	2225	
Ft. N/S dir:	Ν	Ft. E/W Dist:	790	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

ENE 1/2 - 1 Mile

Api ID:	3002511664	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7 R	VRS (OW)ell ID:	006	
Well Name:	B M JUSTIS A	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STOVA	LL		
Latitude:	32.11653			
Longitude:	-103.17687	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	H.	Ft. N/S Dist:	2310	
Ft. N/S dir:	Ν	Ft. E/W Dist:	330	
Ft. E/W Dir:	E	Elevation:	3057 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

OIL_GAS

OIL_GAS

Direction

EDR ID Number Distance Database East 1/2 - 1 Mile OIL_GAS NMOG054980 Api ID: 3002511684 Pool ID: 79240 Pool Name: JALMAT; TAN-YATES-7 RVRS (PROIDES) 003 Well Name: LANEHART County ID: 25 188294 County Name: Lea Operator ID: Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11459 Longitude: -103.1726 21 Section: Township: 25.0S 37E Range: Unit ID: Ft. N/S Dist: 2310 L Ft. N/S dir: Ft. E/W Dist: s 990 Ft. E/W Dir: w Elevation: 3054 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard West 1/2 - 1 Mile OIL_GAS NMOG005931 Api ID: 3052510407 Pool ID: 92603 Pool Name: LEA UNDESIGNATED;STRAWN (AGAIS)D: 004 Well Name: SHOLES B 19 COM County ID: 25 County Name: Operator ID: 0 Lea Op. Name: Not Reported Latitude: 32.11386 -103.20354 Longitude: Section: 19 Township: 25.0S 37E Range: Ft. N/S Dist: Unit ID: κ 1980 Ft. N/S dir: s 1980 Ft. E/W Dist: Not Reported Ft. E/W Dir: W Elevation: Not Reported Compdate: Depth: 0 Plugdate: Not Reported Datasource: Preongard

West 1/2 - 1 Mile

OIL_GAS NMOG063592

Api ID:	3002527143	Pool ID:	79240
Pool Name:	JALMAT; TAN-YATES-7 RVRS	(Praices)	004
Well Name:	SHOLES B 19	County ID:	25
County Name:	Lea	Operator ID:	188294
Op. Name:	AMERICAN INLAND RESOUR	CES COMPANY LLC	
Latitude:	32.11386		
Longitude:	-103.20354	Section:	19
Township:	25.0S	Range:	37E
Unit ID:	к	Ft. N/S Dist:	1980
Ft. N/S dir:	S	Ft. E/W Dist:	1980
Ft. E/W Dir:	W	Elevation:	3070 GL
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

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Direction Distance

EDR ID Number Database

NMOG006222

NMOG005920

NW 1/8 - 1/4 Mile			OIL_GAS	NMOG055074
Api ID:	3002511667	Pool ID:	Not Reported	
Pool Name:	Not Reported	Well ID:	001	
Well Name:	BATES	County ID:	25	
County Name:	Lea	Operator ID:	2175	
Op. Name:	BETTIS BOYLE & STOV	/ALL		
Latitude:	32.11382			
Longitude:	-103.19083	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	L	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	w	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	1992-10-06	Datasource:	Ongard	

ENE 1/4 - 1/2 Mile

Api ID:	3052510414	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 R	VRS-Q-GRXXMBUDRG	002	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11382			
Longitude:	-103.18219	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

ENE 1/4 - 1/2 Mile

Api ID:	3052510416	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	rvrs (Pragicides)	002	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11382			
Longitude:	-103.18219	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

OIL_GAS

OIL_GAS

Direction Distance

Database EDR ID Number

ENE 1/4 - 1/2 Mile			OIL_GAS	NMOG005975
Api ID:	3052510415	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-	7 RVRS (OW)ell ID:	002	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	·		
Latitude:	32.11382			
Longitude:	-103.18219	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

ENE 1/4 - 1/2 Mile

OIL_GAS NMOG005977 Api ID: 3052510418 Pool ID: 79240 Pool Name: JALMAT; TAN-YATES-7 RVRS (PROBLES) 001 Well Name: HARNER County ID: 25 **County Name: Operator ID:** Lea 0 Op. Name: Not Reported Latitude: 32.11382 Longitude: -103.18219 Section: 20 Township: 25.0S 37E Range: Unit ID: J Ft. N/S Dist: 1980 Ft. N/S dir: s Ft. E/W Dist: 1980 Ft. E/W Dir: Е Elevation: Not Reported Depth: Compdate: Not Reported 0 Plugdate: Not Reported Datasource: Preongard

ENE

1/4 - 1/2 Mi	le
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Api ID:	3052510417	Pool ID:	79240
Pool Name:	JALMAT; TAN-YATES-7 RVRS (Proices)	003
Well Name:	HARNER	County ID:	25
County Name:	Lea	Operator ID:	0
Op. Name:	Not Reported		
Latitude:	32.11382		
Longitude:	-103.18219	Section:	20
Township:	25.0S	Range:	37E
Unit ID:	J	Ft. N/S Dist:	1980
Ft. N/S dir:	S	Ft. E/W Dist:	1980
Ft. E/W Dir:	Ε	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Preongard

OIL_GAS

NMOG005976

Direction Distance

Database EDR ID Number

NMOG054953

NMOG055037

OIL_GAS

OIL_GAS

ENE 1/4 - 1/2 Mile			OIL_GAS	NMOG055073
Api ID:	3002511659	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-	7 RVRS (OWell ID:	002	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	22659	
Op. Name:	TEXAS PACIFIC OIL C			
Latitude:	32.11382			
Longitude:	-103.18195	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1905	
Ft. E/W Dir:	Ε	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

ENE 1/4 - 1/2 Mile

Api ID:	3002511659	Pool ID:	79240	
Pool Name:	JALMAT; TAN-YATES-7	7 RVRS (PRAGIGES)	002	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	22659	
Op. Name:	TEXAS PACIFIC OIL C	OINC		
Latitude:	32.11382			
Longitude:	-103.18195	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1905	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	
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East 1/2 - 1 Mile

Api ID:	3002511671	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-7	RVRS (OWell ID:	002	
Well Name:	LEONARD	County ID:	25	
County Name:	Lea	Operator ID:	141402	
Op. Name:	FULFER OIL & CATTLE	ELLC		
Latitude:	32.11382			
Longitude:	-103.17793	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	1	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	3050 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

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Direction Distance

Database

OIL_GAS

EDR ID Number

NMOG005919

NMOG005933

NMOG006055

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East 1/2 - 1 Mile

Api ID:	3052510413	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 R\	/RS-Q-GRXX68LURG	002	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	·		
Latitude:	32.11382			
Longitude:	-103.17793	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	I	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	Ε	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

East 1/2 - 1 Mile

		OIL_GAS	NMOG005933
3052510431	Pool ID:	37240	
LANGLIE MATTIX;7 RV	RS-Q-GRXXXHBULDRG	004	
LANEHART	County ID:	25	
Lea	Operator ID:	0	
Not Reported	-		
32.11369			
103.17366	Section:	21	
25.0S	Range:	37E	
-	Ft. N/S Dist:	1980	
S	Ft. E/W Dist:	660	
N	Elevation:	Not Reported	
)	Compdate:	Not Reported	
Not Reported	Datasource:	Preongard	
	3052510431 LANGLIE MATTIX;7 RV LANEHART Lea Not Reported 32.11369 -103.17366 25.0S L S W O Not Reported	LANGLIE MATTIX;7 RVRS-Q-GRWebubr LANEHART County ID: Lea Operator ID: Not Reported 32.11369 103.17366 Section: 25.0S Range: L Ft. N/S Dist: S Ft. E/W Dist: W Elevation: O Compdate:	3052510431 Pool ID: 37240 LANGLIE MATTIX;7 RVRS-Q-GRXWEBUERG 004 LANEHART County ID: 25 Lea Operator ID: 0 Not Reported 32.11369 37240 103.17366 Section: 21 25.0S Range: 37E L Ft. N/S Dist: 1980 S Ft. E/W Dist: 660 W Elevation: Not Reported D Compdate: Not Reported

East 1/2 - 1 Mile

Api ID:	3052510430	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-7	' RVRS (OWell ID:	001	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11369			
Longitude:	-103.17366	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	۱.	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	w	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

OIL_GAS

Direction Distance

East 1/4 - 1/2 Mile

 			Database	EDR ID Number
			OIL_GAS	NMOG062833

Api ID:	3002526319	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	rvrs (Pragiciaes)	003	
Well Name:	HORNER	County ID:	25	
County Name:	Lea	Operator ID:	13300	
Op. Name:	LEWIS B BURLESON I	NC		
Latitude:	32.11291			
Longitude:	-103.18111	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1650	
Ft. N/S dir:	S	Ft. E/W Dist:	1650	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

NNW 0 - 1/8 Mile

Api ID:	3002527542	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	rvrs (Pradicipas)	003	
Well Name:	BATES	County ID:	25	
County Name:	Lea	Operator ID:	26485	
Op. Name:	BURLINGTON RESOU	RCES OIL & GAS CO		
Latitude:	32.11287			
Longitude:	-103.18906	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	к	Ft. N/S Dist:	1635	
Ft. N/S dir:	S	Ft. E/W Dist:	1210	
Ft. E/W Dir:	w	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

East 1/2 -

1/2 - 1 Mile)
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Api ID:	3002526155	Pool ID:	33820
Pool Name:	JALMAT; TAN-YATES-7 RVRS	(OW)ell ID:	004
Well Name:	LANEHART	County ID:	25
County Name:	Lea	Operator ID:	13300
Op. Name:	LEWIS B BURLESON INC		
Latitude:	32.11281		
Longitude:	-103.17471	Section:	21
Township:	25.0S	Range:	37E
Unit ID:	L	Ft. N/S Dist:	1650
Ft. N/S dir:	S	Ft. E/W Dist:	330
Ft. E/W Dir:	W	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	1994-06-08	Datasource:	Ongard

OIL_GAS

OIL_GAS

NMOG064134

NMOG062525

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IZ-1 Mile OIL_GAS NMOG064843 Api ID: 3002528519 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PMQIGBS) 008 Well Name: UNNINGHAM County ID: 25 County Name: Lea Operator ID: 162683 Op. Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 32.11158 Longitude: 132.11158 19 Township: 25.0S Range: 37E Unit ID: O Pt. N/S Dist: 1160 Ft. EW Dir: E Elevation: 3058 GL Depth: O Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest /2-1 Mile Out_GAS Section: 19 Voglate: Not Reported Datasource: Ongard Vest ////////////////////////////////////	Api ID: 3002528519 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PMalCBS) 008 Well Name: Lea Operator ID: 152833 Op. Name: GRUY PETROLEUM MANAGEMENT CO. 152883 Lafitude: 22.11158 1600 Longitude: 23.03 Range: 37E Unit ID: O F1.NS Dist: 1160 FR. KNS dir: S F1.EW Dist: 1610 FR. KNS dir: S F1.EW Dist: 1610 PL. WS dir: E Elevation: 3058 GL Dopth: 0 Compdate: Not Reported Datasource: Pugdate: Not Reported Datasource: Ongard Vest 3002511623 Pool ID: 79240 County Name: Laa Out_GAS Out_GAS Api ID: 3002511623 Pool ID: 79240 County Name: Laa Out_GAS Out_GAS Op. Name: JALMAT;TAN-YATES-7 RVRS (PMaiDES) 001 Out_GAS Api ID: 3002511623 Pool ID: 198294	nce			Database	EDR ID Numbe
Pool Name: JALMATTAN-YATES-7 RVRS (PRAIDS) 008 Well Name: Vell Name: County (D: 25 County Name: Lea Operator (D: 162883 Op. Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: Jatitude: -103.19917 Saction: 19 Longitude: -103.19917 Saction: 19 Longitude: -103.19917 Saction: 19 Township: 25.0S Range: 37E Unit ID: O FL KV Dist: 1610 FL NS dir: S FL EW Dist: 1610 Plugdate: Not Reported Datasource: Ongard Pool Name: JALMATTRN-YATES-7 RVRS (PRAIDES) 001 Vest Vest Saction: 19 County ID: 25 County Name: Lea Operator ID: 198294 Op. Vest Jatimatr: Saction: 19 County ID: 25 County Name: Lea County ID: 25 County ID: 26	Pool Name: JALMAT,TAN-YATES-7 RVRS (PR&IGTBS) 008 Well Name: Lea Operator ID: 25 County Name: Lea Operator ID: 162683 Op, Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 32.11153 Longitude: -103.19917 Section: 19 Township: 25.0S Range: 37E Unit ID: O FL.NS Dist: 1160 FL.EW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Nor Reported Plugdate: Not Reported Datasource: Ongard Vest 25 County Name: 25 County Name: Vest StockES B 19 County ID: 25 County Name: County Name: Lea Operator ID: 18294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E				OIL_GAS	NMOG064843
Pool Name: JALMATTAN-YATES-7 RVRS (PRAIDS) 008 Well Name: Lea Operator ID: 162683 Op. Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 32.11138 Longitude: -103.19817 Section: 19 Township: 25.0S Range: 37E Unit ID: O FL N/S Gir: 1610 FL N/S Gir: S FL EW Dist: 1610 FL N/S Gir: S FL EW Dist: 1610 Plugdate: Not Reported Datasource: Ongard Vest 2002511623 Pool ID: 79240 Vest Song2510623 Pool ID: 79240 Vest County ID: 25 County Name: LAMATTAN-YATES-7 RVRS (PRAIDS) 001 001 Well Name: SHOLES B 19 County ID: 25 25 County Name: Laag Operator ID: 188294 00 Op. Name: JAMEICAN INLAND RESOURCE COMPANY LLC 188294 00	Pool Name: JALMAT,TAN-YATES-7 RVRS (PR@IGBS) 008 Well Name: WINNINGHAM County ID: 25 County Name: Lea Operator ID: 162683 Op. Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 32,11158 Longitude: -103,19917 Section: 19 Township: 25.0S Range: 37E Unit ID: O FL M/S Dist: 1160 FL KVS dir: S FL EW Dist: 1610 PL EW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Pool Name: JALMAT,TAN-YATES-7 RVRS (PR@IBS) 001 West 3002511623 Pool ID: 79240 Pool Name: JALMAT,TAN-YATES-7 RVRS (PR@IBS) 001 West SudMAT,TAN-YATES-7 RVRS (PRMIDES) 001 Vest Scoort 19 79240 Op. Name: JALMAT,TAN-YATES-7 RVRS (PRMIDES) 001 Op, Name: JALMAT,TAN-YATES-7 RVRS (PMIDES) 011	i ID:	3002528519	Pool ID:	79240	
Well Name: WINNINGHAM County (ID: 25 County Name: GRUY PETROLEUM MANAGEMENT CO. 162683 Latitude: 32.11159 19 Longitude: -103.19917 Section: 19 Township: 25.0S Range: 37E Unit ID: O P1. NS Dist: 1160 Pt. EW Dist: 160 P1. WS dist: 1160 Pt. EW Dist: 1610 OIL_GAS NMOG054950 Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PMAIDES) 001 Vest 25 Oparator ID: 188294 Oparator ID: 188294 19 19 County Name: Lea Oparator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC 19 Latitude: 32.11023 Section: 19 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: <t< td=""><td>Well Name: WINNINGHAM County ID: 25 County Name: GRUY PETROLEUM MANAGEMENT CO. 162683 Latitude: 32.11158 103.19817 Section: 19 Longitude: -103.19817 Section: 19 106.000 Township: 25.05 Range: 37E 1160 PL KW Dir: E Elevation: 3058 GL 205.05 PL EW Dir: E Elevation: 3058 GL 205.05 Pugdate: Not Reported Datasource: Ongard Vest 2.11623 Pool ID: 79240 Pool Name: JALMAT.TAN-YATES-7 RVRS (PMAICIBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.05 Range: 37E Unit ID: N FL EW Dist:</td><td></td><td></td><td></td><td></td><td></td></t<>	Well Name: WINNINGHAM County ID: 25 County Name: GRUY PETROLEUM MANAGEMENT CO. 162683 Latitude: 32.11158 103.19817 Section: 19 Longitude: -103.19817 Section: 19 106.000 Township: 25.05 Range: 37E 1160 PL KW Dir: E Elevation: 3058 GL 205.05 PL EW Dir: E Elevation: 3058 GL 205.05 Pugdate: Not Reported Datasource: Ongard Vest 2.11623 Pool ID: 79240 Pool Name: JALMAT.TAN-YATES-7 RVRS (PMAICIBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.05 Range: 37E Unit ID: N FL EW Dist:					
County Name: Lea Operator ID: 162883 Op. Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 32.11158 Latitude: 32.11158 Section: 19 Township: 25.05 Range: 37E Unit ID: O FL MX Sir: 1610 FL N/S dir: S FL EW Dist: 1610 FL N/S dir: S FL EW titt: 1610 Plugdate: Not Reported Datasource: Ongard Pugdate: Not Reported Datasource: Ongard Vest Z: 1 Mile OIL_GAS NMOG054950 Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT, TAN-YATES-7 RVRS (PMAIEBS) 001 25 County Name: Lea Operator ID: 188294 00 Op. Name: JALMAT, TAN-YATES-7 RVRS (PMAIEBS) 01 186294 Op. Name: JALMAT, TAN-YATES-7 RVRS (PMAIES) 186294 00 Op. Name: JALMAT, TAN-YATES-7 RVRS (OMANY LLC 188294 0	County Name: Lea Operator ID: 162683 Op. Name: GRUY PETROLEUM ANNAGEMENT CO. 19 1 Latitude: 32.11158 3 19 Longitude: -103.19917 Section: 19 Township: 25.0S Range: 37E Unit ID: O FL.M/S Dist: 1160 FL.KW Dir: E Elevation: 3056 GL Depth: O Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest ////////////////////////////////////					
Op, Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 103.19817 Section: 19 Township: 25.0S Particular: 101.1D: O Pt. N/S Dist: 1160 Pt. KYS dir: S Pt. EWD Dist: 1160 Pt. EWD Dist: 100 OBS GL 005 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Api ID: 3002511623 Pool ID: 79240 Yest Ze -1 Mile Out_GAS NMOG054950 Api ID: 3002511623 Pool ID: 79240 County Name: JALMAT;TAN-YATES-7 RVRS (PRAIBES) 001 25 County Name: JALMAT;TAN-YATES-7 RVRS (PRAIBES) 001 24 Vest autide: -103.20353 Section: 19 Township: 2.5.0S Range: 37E 37E Unit ID: N FL KVS Dist: 660 FL KVS Dist: 1980 Plugdate: Not Reported Datasource: Ongard 19	Op. Name: GRUY PETROLEUM MANAGEMENT CO. Latitude: 32.11158 Longitude: 103.19817 Section: 19 Township: 25.0S Range: 37E Unit ID: O Pi. LFW Dist: 1160 FL KW Dir: E Elevation: 3058 GL Depth: O Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard					
Laitlude: 32.11158 Longitude: -03.19817 Section: 19 Township: 25.0S Range: 37E Unit ID: 0 Ft. V/S Dist: 1160 Ft. IV/S dir: 160 Ft. IV/S dir: 160 Plugdate: Not Reported Datasource: Ongard Vest /2-1 Mile OIL_GAS NMOG054950 Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT,TAN-YATES-7 RVRS (PR&IDES) 001 Vell Name: ShOLES B 19 County ID: 25.0S Range: 37E Laitlude: -22.1023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N Ft. IV/S Dist: 1980 Ft. IV/S dir: 5 Ft. IV/S Dist: 1980 Section: 1980 Township: 25.0S Range: 37E Unit ID: N Ft. IV/S Dist: 1980 Ft. IV/S Dist: 1980 Section: 1960 Ft. IV/S dir: 5 Ft. IV/S Dist: 1980 Api ID: N Reported Datasource: Ongard Api ID: Not Reported Laitlude: 32.1103 Api ID: Not Reported Laitlude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E County ID: 25 County ID: 25 County ID: 39820 OIL_GAS MMOG006230 Api ID: 00 Compdate: Not Reported Laitlude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E County ID: 25 County ID: 25	Laitude: 32.1158 Longitude: 103.19817 Section: 19 Township: 25.05 Range: 37E Unit ID: 0 Ft. N/S Dist: 1160 Ft. I/S dir: S Ft. E/W Dist: 1610 Pt. I/S dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Plugdate: Not Reported Datasource: 0ngard Vest Z-1 Mile OLL_GAS Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT,TAN-YATES-7 RVRS (PKGIGBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N Ft. INS SECTION Not Reported Plugdate: Not Reported Datasource: Ongard SE A-1/2 Mile OLL: 3357 RVRS (OKM) ID: 33820 Api ID: 0. 0. Compdate: Not Reported SE A-1/2 Mile OLL: 3357 RVRS (OKM) ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: -32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N F1. N/S Dist: 660 Ft. I/S dir: S F1. E/W Dist: 1980 Ft. E/W Dir: W Elevation: 3157 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard SE A-1/2 Mile OLC: 25 County Name: Lea Operator ID: 33820 Pool Name: JALMAT,TAN-YATES-7 RVRS (OMM) ID: 01 Well Name: HARNER County ID: 25 County Name: Lea Operator ID: 0 Township: 25.0S Range: 37E County ID: 0 O Compdate: Not Reported Latitude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E County Name: Lea Operator ID: 0 Township: 25.0S Range: 37E County Name: Lea Operator ID: 0 Township: 25.0S Range: 37E County ID: 25.0S Range: 37E County Name: Lea Operator ID: 0 O O, Name: Not Reported Latitude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E County Name: Not Reported Latitude: S2.1019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E County ID: 0 O F1. N/S Dist: 1980 Ft. E/W Dir: E E Elevation: Not Reported Latitude: Not Reported Latitude: Not Reported Latitude: Not Report		GRUY PETROLEUM MANAGI			
Tomship: 25.0S Range: 37E Unit ID: O FL M/S Dist: 1160 FL M/S dir: S FL E/W Dist: 1610 PL W/S dir: E Elevation: 3038 GL Depth: O Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest Compdate: Not Reported Datasource: On_gard Vest Compdate: Not Reported Datasource: On_gard Vest Compdate: Not Reported Datasource: On_gard Vest County Ion: 25 County Ion: 25 County Name: JALMAT,TAN-YATES-7 RVRS (PMGIDS) 001 West Veil Name: JALMAT,TAN-YATES-7 RVRS (PMGIDS) 001 Unit ID: Conny Name: Lea Operator ID: 188294 Op. Name: Jon, Name: JALMAT,TAN-YATES-7 RVRS (OMPANY LLC) Latitude: 32.1023 Langitude: -03.20353 Section: 19 Tow	Township: 25.0S Range: 37E Unit ID: O PI. N/S Dist: 1160 FL N/S dir: S PI. E/W Dist: 1610 FL EW Dir: E Elevation: 3058 GL Depth: O Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest County Dir: 3002511623 Pool ID: 79240 Pool Name: JALMAT,TAN-YATES-7 RVRS (PK@IGBS) 001 188294 Op, Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op, Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 3211023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N FL N/S Dist: 660 FL N/S dir: S FL E/W Dist: 1980 Township: 25.0S Range: 37E Unit ID: N		•			
Unit D: Pt. N/S dir; F. L/X dir; F. E/X Dir; E O Ft. K/S Dist: E 1160 Elevation: Stepht: 0 1160 Compdate: Datasource: OIL_GAS NMO Reported Plugdate: Not Reported Datasource: OIL_GAS NMOG054950 Api ID: Pool Name: JALMAT;TAN-YATES-7 RVRS (PRAICIBS) OPAMINE: Languide: 	Unit ID: O FL M/S Dist: 1160 FL R/NS dir: S FL EW Dist: 1610 PE, EW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest 0 Source: Ongard Vest 0 Compdate: Not Reported Vest 0 Out_GAS Ongard Vest 0 Compdate: Ongard Vest 0 Out_GAS Ongard Vest 0 Support Optic T9240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PRAIGBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Optics 38294 Optics 38294 Unit ID: N FL NZD Dist: 19 Township: 25.0S Range: 37E Unit ID: N FL EW Dist: 1980 FL EW Dist: 1980	ngitude:	-103.19817	Section:	19	
Ft. NXS dir: S Ft. EVW Dir: B10 Ft. EVW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest	Ft. N/S dir: S Ft. EAW Dist: 1610 PL EW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest		25.0S	Range:	37E	
P. E.W Dir: E Elevation: 308 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest 0 0 Ompdate: Not Reported Vest 0 0 Out_GAS NMOG054950 Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PRGIGRS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 182294 Op. Name: AMERICAN INLAND RESOURCES COMPARY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N FL KW Dist: 1980 FL LVS dir: S FL EW Dist: 1980 FL LVS dir: S FL EW Dist: 1980 FL NS dir: S FL EW Dist: 1980 FL NS dir: S SE Out_GAS NMOG006230 Api ID: 3052510420 <td>FL EW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest Datasource: OIL_GAS Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PRGIGBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N FL EW Dist: 1980 Ft. EW Dir: V Elevation: 3157 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest Section: 25 County ID: 25 County Name: JALMAT;TAN-YATES-7 RVRS (OMpHI ID: 01 Ongard Pool Name: JALMAT;TAN-YATES-7 RV</td> <td>it ID:</td> <td>0</td> <td>Ft. N/S Dist:</td> <td>1160</td> <td></td>	FL EW Dir: E Elevation: 3058 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest Datasource: OIL_GAS Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PRGIGBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N FL EW Dist: 1980 Ft. EW Dir: V Elevation: 3157 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest Section: 25 County ID: 25 County Name: JALMAT;TAN-YATES-7 RVRS (OMpHI ID: 01 Ongard Pool Name: JALMAT;TAN-YATES-7 RV	it ID:	0	Ft. N/S Dist:	1160	
Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vest 2-1 Mile 0IL_GAS NMOG054950 Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT,TAN-YATES-7 RVRS (PRGIGBS) 001 Well Name: SHOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op. Name: AMERICAN INLAND RESOURCES COMPANY LLC Latitude: 32.11023 Longitude: -103.20353 Section: 19 Township: 25.0S Range: 37E Unit ID: Not Reported Datasource: Ongard Plugdate: Not Reported Datasource: Ongare Vell Name: -103.20353 Section: 19 Longitude: -103.20353 Section: 19 Plugdate: Not Reported Datasource: Ongard Vell Name: Q. Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vell Name: <	Depth: Plugdate: 0 Compdate: Datasource: Not Reported Vest Z-1 Mile OIL_GAS Api ID: 3002511623 Pool ID: 79240 Pool Name: JALMAT;TAN-YATES-7 RVRS (PM@ICIBS) 001 Well Name: SAOLES B 19 County ID: 25 County Name: Lea Operator ID: 188294 Op, Name: AMERICAN INLAND RESOURCES COMPANY LLC 188294 Latitude: 32,11023 Section: 19 Longitude: -103,20353 Section: 19 Township: 25.0S Range: 37E Unit ID: N FL EW Dist: 1980 Ft. EW Dir: W Elevation: 3157 GL Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Ongard Vell Name: JALMAT;TAN-YATES-7 RVRS (OMMPI ID: 25 01L_GAS SE 60 Compdate: Not Reported Operator ID: 3820 Op Name: JALMAT;TAN-YATES-7 RVRS (OMMPI ID: 25 001 OUt_GAS Api ID:<	N/S dir:		Ft. E/W Dist:	1610	
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Api ID:3052510420Pool ID:33820Pool Name:JALMAT;TAN-YATES-7 RVRS (OWell ID:001Well Name:HARNERCounty ID:25County Name:LeaOperator ID:0Op. Name:Not ReportedLatitude:Latitude:32.1101920Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	Api ID:3052510420Pool ID:33820Pool Name:JALMAT;TAN-YATES-7 RVRS (OWell ID:001Well Name:HARNERCounty ID:25County Name:LeaOperator ID:0Op. Name:Not ReportedJALMAT:Latitude:32.1101920Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported					
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Pool Name:JALMAT;TAN-YATES-7 RVRS (OWell ID:001Well Name:HARNERCounty ID:25County Name:LeaOperator ID:0Op. Name:Not ReportedLatitude:32.11019Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	Pool Name:JALMAT;TAN-YATES-7 RVRS (OWell ID:001Well Name:HARNERCounty ID:25County Name:LeaOperator ID:0Op. Name:Not ReportedLatitude:32.11019Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	ID:	3052510420	Pool ID:	33820	
Well Name:HARNERCounty ID:25County Name:LeaOperator ID:0Op. Name:Not Reported-Latitude:32.11019-Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	Well Name:HARNERCounty ID:25County Name:LeaOperator ID:0Op. Name:Not Reported-Latitude:32.11019-Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported					
County Name:LeaOperator ID:0Op. Name:Not ReportedLatitude:32.11019Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S dir:SSFt. E/W Dist:Ft. E/W Dir:EDepth:0KernerNot Reported	County Name:LeaOperator ID:0Op. Name:Not ReportedLatitude:32.11019Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S dir:SSFt. E/W Dist:1980Ft. E/W Dir:EDepth:0OCompdate:Not Reported					
Op. Name:Not ReportedLatitude:32.11019Longitude:-103.18208Section:20Township:25.0SRange:37EUnit ID:OFt. N/S dir:SSFt. E/W Dist:Ft. E/W Dir:ELongitude:0Compdate:Not Reported	Op. Name: Not Reported Latitude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E Unit ID: O Ft. N/S Dist: 660 Ft. N/S dir: S Ft. E/W Dist: 1980 Ft. E/W Dir: E Elevation: Not Reported Depth: 0 Compdate: Not Reported		Lea		0	
Latitude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E Unit ID: O Ft. N/S Dist: 660 Ft. N/S dir: S Ft. E/W Dist: 1980 Ft. E/W Dir: E Elevation: Not Reported Depth: 0 Compdate: Not Reported	Latitude: 32.11019 Longitude: -103.18208 Section: 20 Township: 25.0S Range: 37E Unit ID: O Ft. N/S Dist: 660 Ft. N/S dir: S Ft. E/W Dist: 1980 Ft. E/W Dir: E Elevation: Not Reported Depth: 0 Compdate: Not Reported		Not Reported			
Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	itude:	-			
Township: 25.0S Range: 37E Unit ID: O Ft. N/S Dist: 660 Ft. N/S dir: S Ft. E/W Dist: 1980 Ft. E/W Dir: E Elevation: Not Reported Depth: 0 Compdate: Not Reported	Township:25.0SRange:37EUnit ID:OFt. N/S Dist:660Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	ngitude:	-103.18208	Section:		
Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported	Ft. N/S dir:SFt. E/W Dist:1980Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported		25.0S	Range:		
Ft. E/W Dir: E Elevation: Not Reported Depth: 0 Compdate: Not Reported	Ft. E/W Dir:EElevation:Not ReportedDepth:0Compdate:Not Reported					
Depth: 0 Compdate: Not Reported	Depth: 0 Compdate: Not Reported			Ft. E/W Dist:		
Plugdate: Not Reported Datasource: Preongard	Plugdate: Not Reported Datasource: Preongard			•		
	5 , · · · · · · · · · · · · · · · · · ·	gdate:	Not Reported	Datasource:	Preongard	

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Direction Distance

Database EDR ID Number

NMOG005902

NMOG054978

NMOG005873

OIL_GAS

OIL_GAS

OIL_GAS

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ESE 1/4 - 1/2 Mile

Api ID:	3052510419	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 R	/RS-Q-GRWHEBUDRG	001	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	-		
Latitude:	32.11019			
Longitude:	-103.18208	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	0	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

ESE 1/4 - 1/2 Mile

		5 115	00000	
Api ID:	3002511673	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (OW)ell ID:	001	
Well Name:	HARNER	County ID:	25	
County Name:	Lea	Operator ID:	22659	
Op. Name:	TEXAS PACIFIC OIL C	O INC		
Latitude:	32.11019			
Longitude:	-103.18208	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	0	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	
-	•			

ESE 1/2 - 1 Mile

Api ID:	3052510421	Pool ID:	74800	
Pool Name:	CHAVEROO;CANYON,	NORTH (12/46)D:	003	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11019			
Longitude:	-103.17782	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	Р	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

그는 물건에 다 가슴을 물을 통하는 것 같아요. 것 같아요.

Direction Distance			Database	EDR ID Numbe
SE				
52 /2 - 1 Mile	•		OIL_GAS	NMOG054930
Api ID:	3002511670	Pool ID:	79240	
Pool Name:	JALMAT; TAN-YATES-7 RVRS		001	
Well Name:	LEONARD	County ID:	25	
County Name:	Lea	Operator ID:	13300	
Op. Name:	LEWIS B BURLESON INC			
Latitude:	32.11019			
Longitude:	-103.17782	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	Р	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	Ē	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	1994-12-23	Datasource:	Ongard	
SE /2 - 1 Mile	1		OIL_GAS	NMOG005946
Api ID:	3052510422	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 RVRS-Q-0	GRWABUERG	001	
Well Name:	LEONARD	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11019			
Longitude:	-103.17782	Section:	20	
Township:	25.0S	Range:	37E	
Unit ID:	P	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	
	· · · · · · · · · · · · · · · · · · ·			
SE /2 - 1 Mile			OIL_GAS	NMOG006172
Api ID:	3052510421	Pool ID:	75480	
Pool Name:	CROSBY;DEVONIAN (GAS)	Well ID:	003	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11019			
Longitude:	-103.17782	Section:	20	
Township:	25.0S	Range:	37E	
	P	Ft. N/S Dist:	660	
Unit ID:	S	Ft. E/W Dist:	660	
Ft. N/S dir:				
Ft. N/S dir: Ft. E/W Dir:	E	Elevation:	Not Reported	
Ft. N/S dir: Ft. E/W Dir: Depth:	E 0	Compdate:	Not Reported	
Ft. N/S dir: Ft. E/W Dir:	E			
Ft. N/S dir: Ft. E/W Dir: Depth:	E 0	Compdate:	Not Reported	

Direction Distance

East 1/2 - 1 Mile

Database EDR ID Number

NMOG054979

NMOG005934

NMOG005949

OIL_GAS

OIL_GAS

OIL_GAS

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Api ID:	3002511678	Pool ID:	79240
Pool Name:	JALMAT;TAN-YATES-7 RVRS (P ra idas)	001
Well Name:	LANEHART	County ID:	25
County Name:	Lea	Operator ID:	13300
Op. Name:	LEWIS B BURLESON INC	-	
Latitude:	32.11006		
Longitude:	-103.17355	Section:	21
Township:	25.0S	Range:	37E
Unit ID:	Μ	Ft. N/S Dist:	660
Ft. N/S dir:	S	Ft. E/W Dist:	660
Ft. E/W Dir:	W	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Hobbs

East 1/2 - 1 Mile

Api ID:	3052510433	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (PRAGICIDAS)	001	
Well Name:	EVA OWENS D	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11006			
Longitude:	-103.17355	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	M	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	w	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

East 1/2 - 1 Mile

Api ID:	
Pool Name:	
Well Name:	
wen name:	

Api ID:	3052510432	Pool ID:	13440	
Pool Name:	CROSBY;DEVONIAN (A	BANDONALE) ID:	001	
Well Name:	EVA OWENS D	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.11006			
Longitude:	-103.17355	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	M	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	w	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

Direction Ľ

Direction Distance			Database	EDR ID Numbe
ast	i -			
/2 - 1 Mile			OIL_GAS	NMOG055075
Api ID:	3002511677	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 RVRS-Q-		001Y	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	188294	
Op. Name:	AMERICAN INLAND RESOUR	CES COMPANY LLC		
Latitude:	32.11006			
Longitude:	-103.17307	Section:	21	
Township:	25.0S	Range:	37E	
Unit ID:	М	Ft. N/S Dist:	660	
Ft. N/S dir:	S	Ft. E/W Dist:	810	
Ft. E/W Dir:	W	Elevation:	3037 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	
VSW /4 - 1/2 Mile			OIL_GAS	NMOG054894
Api ID:	3002511621	Pool ID:	Not Reported	
Pool Name:	Not Reported	Well ID:	002	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	26485	
Op. Name:	BURLINGTON RESOURCES	OIL & GAS CO		
Latitude:	32.11002			
Longitude:	-103.19508	Section:	19	
Township:	25.0S	Range:	37E	
Unit ID:	P	Ft. N/S Dist:	598	
Ft. N/S dir:	S	Ft. E/W Dist:	653	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	
+ +				
SE /2 - 1 Mile			OIL_GAS	NMOG054954
Api ID:	3002511672	Pool ID:	75480	
Pool Name:	CROSBY;DEVONIAN (GAS)	Well ID:	003	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	21806	
Op. Name:	SUN OIL CO	·		
	00 40000			

Op. Name: Latitude: Longitude: Township: Unit ID: Ft. N/S dir: Ft. E/W Dir: Depth:

Plugdate:

32.10929

25.0S

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0

-103.17672

Not Reported

Range: Ft. N/S Dist: Ft. E/W Dist: Elevation: Compdate: Datasource:

Section:

TC01286300.1r Page A-33

20 37E

330 330

Not Reported

Not Reported Hobbs

Direction Distance

Database EDR ID Number

NMOG065120

NMOG055195

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/SW /2 - 1 Mile			OIL_GAS	NMOG055054
Api ID:	3002511842	Pool ID:	Not Reported	
Pool Name:	Not Reported	Well ID:	001	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	26485	
Op. Name:	BURLINGTON RESOU	RCES OIL & GAS CO		
Latitude:	32.1066			
Longitude:	-103.20353	Section:	30	
Township:	25.0S	Range:	37E	
Unit ID:	С	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

WSW 1/2 - 1 Mile

Api ID:	3002528637	Pool ID:	79240
Pool Name:	JALMAT;TAN-YATES-7	RVRS (PRAGIGLES)	009
Well Name:	WINNINGHAM	County ID:	25
County Name:	Lea	Operator ID:	162683
Op. Name:	GRUY PETROLEUM MA	ANAGEMENT CO.	
Latitude:	32.10658		
Longitude:	-103.19937	Section:	30
Township:	25.0S	Range:	37E
Unit ID:	В	Ft. N/S Dist:	660
Ft. N/S dir:	N	Ft. E/W Dist:	1980
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Ongard

SSW 1/4 - 1/2 Mile

Api ID:	3002511826	Pool ID:	Not Reported
Pool Name:	Not Reported	Well ID:	002
Well Name:	BATES	County ID:	25
County Name:	Lea	Operator ID:	2175
Op. Name:	BETTIS BOYLE & STOVALL		
Latitude:	32.10656		
Longitude:	-103.19085	Section:	29
Township:	25.0\$	Range:	37E
Unit ID:	D	Ft. N/S Dist:	660
Ft. N/S dir:	N	Ft. E/W Dist:	660
Ft. E/W Dir:	W	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	1992-09-23	Datasource:	Ongard

OIL_GAS

OIL_GAS

Direction Distance Database EDR ID Number SSE 1/4 - 1/2 Mile OIL_GAS NMOG005689 Api ID: 3052510616 Pool ID: 33820 JALMAT; TAN-YATES-7 RVRS (OW)ell ID: Pool Name: 001 Well Name: County ID: BATES 25 County Name: **Operator ID:** Lea 0 Op. Name: Not Reported 32.10656 Latitude: Longitude: -103.18658 Section: 29 Township: 25.0S 37E Range: Unit ID: С Ft. N/S Dist: 660 Ft. N/S dir: Ν Ft. E/W Dist: 1980 Ft. E/W Dir: W Elevation: Not Reported Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Preongard SSE 1/4 - 1/2 Mile NMOG005744 OIL_GAS Api ID: 3052510618 Pool ID: 79240 Pool Name: JALMAT; TAN-YATES-7 RVRS (PROIDES) 002 Well Name: BATES County ID: 25 County Name: Lea **Operator ID:** 0 Op. Name: Not Reported Latitude: 32.10656 Longitude: -103.18658 Section: 29 Township: 25.0S Range: 37E Unit ID: С Ft. N/S Dist: 660 Ft. N/S dir: Ν Ft. E/W Dist: 1980 Ft. E/W Dir: W Elevation: Not Reported Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Preongard SSE 1/4 - 1/2 Mile NMOG005730 OIL_GAS 052510610 F

Api ID:	3052510619	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (PRAQICIDES)	001	
Well Name:	BATES	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10656			
Longitude:	-103.18658	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	С	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	: W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

Direction Distance

Database EDR ID Number

NMOG006026

NMOG055270

SE /4 - 1/2 Mile			OIL_GAS	NMOG006004
Api ID:	3052510617	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (PRAGIGLAS)	001	
Well Name:	BATES	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10656			
Longitude:	-103.18658	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	С	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SSE 1/4 - 1/2 Mile

Api ID:	3052510615	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 R\	/RS-Q-GRAMEBUDRG	001	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10656			
Longitude:	-103.18658	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	С	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	1980	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SE 1/2 - 1 Mile

Api ID:	3002511832	Pool ID:	96838
Pool Name:	DRY & ABND	Well ID:	001
Well Name:	COLL	County ID:	25
County Name:	Lea	Operator ID:	999535
Op. Name:	OLSEN-BLOUNT OIL CO	-	
Latitude:	32.10656		
Longitude:	-103.18204	Section:	29
Township:	25.0S	Range:	37E
Unit ID:	В	Ft. N/S Dist:	660
Ft. N/S dir:	N	Ft. E/W Dist:	1980
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Hobbs

OIL_GAS

OIL_GAS

Direction Distance	1		Database	EDR ID Numbe
SE				
/2 - 1 Mile	:		OIL_GAS	NMOG005940
Api ID:	3052510614	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7 RVRS (I	Praiges)	001	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	•		
Latitude:	32.10656			
Longitude:	-103.17777	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	Α	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	ō	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	
SE				
/2 - 1 Mile			OIL_GAS	NMOG005958
Api ID:	3052510598	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 RVRS-Q-GF	RWHEBULERG	001	
Well Name:	LANEHART	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10643			
Longitude:	-103.17352	Section:	28	
Township:	25.0S	Range:	37E	
Unit ID:	D	Ft. N/S Dist:	660	
Ft. N/S dir:	Ň	Ft. E/W Dist:	660	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	
<u>,</u>			·	
SE /2 - 1 Mile			OIL_GAS	NMOG005671
Api ID:	3052510600	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7 RVRS (F		001	
Well Name:	SAUNDERS ESTATE	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10643			
Longitude:	-103.17352	Section:	28	
Township:	25.0S	Range:	37E	
Unit ID:	D	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	Ŵ	Elevation:	Not Reported	
Depth: Plugdate:	0 Not Reported	Compdate: Datasource:	Not Reported Preongard	

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Direction Distance

		Database	EDR ID Number
		OIL_GAS	NMOG005718
3052510599	Pool ID:	37240	
		003	
SAUNDERS ESTATE	County ID:	25	
Lea	Operator ID:	0	
Not Reported			
	SAUNDERS ESTATE Lea	LANGLIE MATTIX;7 RVRS-Q-GRW48UURG SAUNDERS ESTATE County ID: Lea Operator ID:	OIL_GAS 3052510599 Pool ID: 37240 LANGLIE MATTIX;7 RVRS-Q-GRWWEBUERG 003 SAUNDERS ESTATE County ID: 25 Lea Operator ID: 0

Section:

Ft. N/S Dist:

Ft. E/W Dist:

Elevation:

Compdate:

Datasource:

Range:

28

37E

660

660

Not Reported Not Reported

OIL_GAS

OIL_GAS

NMOG062510

NMOG055156

Preongard

ESE			
1/2 -	1	Mi	le

Latitude:

Longitude:

Township:

Ft. N/S dir:

Ft. E/W Dir:

Unit ID:

Depth:

Plugdate:

32.10643

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W

0

-103.17352

Not Reported

Api ID:	3002526077	Pool ID:	79240	
Pool Name:	JALMAT; TAN-YATES-7 RV	RS (PRAGICIPAS)	003	
Well Name:	SAUNDERS ESTATE	County ID:	25	
County Name:	Lea	Operator ID:	13300	
Op. Name:	LEWIS B BURLESON INC			
Latitude:	32.10643			
Longitude:	-103.17352	Section:	28	
Township:	25.0S	Range:	37E	
Unit ID:	D	Ft. N/S Dist:	660	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	w	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

SSE 1/4 - 1/2 Mile

Api ID:	3002511825	Pool ID:	79240
Pool Name:	JALMAT; TAN-YATES-7 RVRS (F	'ragicias)	001
Well Name:	EXXON C T BATES	County ID:	25
County Name:	Lea	Operator ID:	999715
Op. Name:	XL TRANSPORTATION CO	-	
Latitude:	32.10585		
Longitude:	-103.18597	Section:	29
Township:	25.0S	Range:	37E
Unit ID:	С	Ft. N/S Dist:	920
Ft. N/S dir:	N	Ft. E/W Dist:	2170
Ft. E/W Dir:	W	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Hobbs

i.

Direction Distance Database EDR ID Number SE 1/2 - 1 Mile OIL_GAS NMOG055244 Api ID: 3002511837 Pool ID: 79240 Pool Name: JALMAT; TAN-YATES-7 RVRS (PROIDES) 001 Well Name: County ID: 25 LANEHART County Name: Operator ID: 22351 Lea **TEXACO EXPLORATION & PRODUCTION INC** Op. Name: 32.10475 Latitude: Longitude: -103.17992 Section: 29 Township: 25.0S Range: 37E Ft. N/S Dist: Unit ID: 1320 Α Ft. N/S dir: Ν Ft. E/W Dist: 1320 Ft. E/W Dir: Е Elevation: Not Reported Not Reported Depth: Compdate: 0 Plugdate: Not Reported Datasource: Hobbs SSW 1/2 - 1 Mile OIL_GAS NMOG063066 Pool ID: 79240 Api ID: 3002526595 JALMAT; TAN-YATES-7 RVRS (PROIDES) Pool Name: 001 Well Name: BATES B B & S County ID: 25 County Name: Operator ID: 14538 Lea Op. Name: MERIDIAN OIL INC Latitude: 32.10323 Longitude: -103,19209 Section: 29 37E Township: 25.0S Range: Unit ID: Ε Ft. N/S Dist: 1870 Ft. N/S dir: Ν Ft. E/W Dist: 280 Ft. E/W Dir: Not Reported w Elevation: Compdate: Not Reported Depth: 0 Plugdate: Not Reported Datasource: Hobbs SSW 1/2 - 1 Mile OIL_GAS NMOG055259 Api ID: 3002511838 Pool ID: Not Reported Pool Name: Well ID: Not Reported 007 Well Name: WINNINGHAM County ID: 25 **County Name:** Lea **Operator ID:** 26485 **BURLINGTON RESOURCES OIL & GAS CO** Op. Name: Latitude: 32.1031 -103.19456 Longitude: 30 Section: Township: 25.0S Range: 37E Unit ID: н Ft. N/S Dist: 1922 Ft. N/S dir: Ν Ft. E/W Dist: 488 Ft. E/W Dir: Not Reported Elevation: Ε

Compdate:

Datasource:

Depth:

Plugdate:

0

Not Reported

Not Reported

Ongard

Direction Distance

Database EDR ID Number

OIL_GAS

SE 1/2 - 1 Mile			OIL_GAS	NMOG062608
Api ID:	3002526191	Pool ID:	96838	
Pool Name:	DRY & ABND	Well ID:	002	
Well Name:	COLL A	County ID:	25	
County Name:	Lea	Operator ID:	3065	
Op. Name:	BURLESON & HUFF			
Latitude:	32.10297			
Longitude:	-103.17675	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	330	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

SSW 1/2 - 1 Mile

Api ID:	3052510633	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (PRAGICIDES)	007	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10294			
Longitude:	-103.19511	Section:	30	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	ε	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SSW 1/2 - 1 Mile

Unit ID:

Depth:

Plugdate:

Ft. N/S dir:

Ft. E/W Dir:

Api ID:	3052
Pool Name:	LAN
Well Name:	WINI
County Name:	Lea
Op. Name:	Not F
Latitude:	32.10
Longitude:	-103.
Township:	25.03

Not Reported

2510632 Pool ID: GLIE MATTIX;7 RVRS-Q-GRAMEBUORG NINGHAM County ID: Operator ID: Reported 0294 .19511 Section: 25.0S Range: н Ft. N/S Dist: Ν Ft. E/W Dist: Ε Elevation: 0 Compdate:

Datasource:

30 37E 1980 660 Not Reported Not Reported Preongard

37240

007

25

0

OIL_GAS

NMOG005721

NMOG005705

Direction EDR ID Number Distance Database SSE 1/2 - 1 Mile OIL_GAS NMOG005719 Api ID: 3052510621 Pool ID: 79240 Pool Name: JALMAT; TAN-YATES-7 RVRS (PROIDES) 001 Well Name: COLL A County ID: 25 Operator ID: County Name: Lea 0 Op. Name: Not Reported Latitude: 32.10294 Longitude: -103.18208 Section: 29 Township: 37E 25.0S Range: Unit ID: Ft. N/S Dist: 1980 G Ft. N/S dir: Ν Ft. E/W Dist: 1980 Ft. E/W Dir: Е Elevation: Not Reported Not Reported Depth: Compdate: 0 Plugdate: Not Reported Datasource: Preongard SSE 1/2 - 1 Mile OIL_GAS NMOG054972 Api ID: 3002511828 Pool ID: 79240 Pool Name: JALMAT; TAN-YATES-7 RVRS (PROIDES) 001 Well Name: COLL A County ID: 25 County Name: Operator ID: 13300 Lea LEWIS B BURLESON INC Op. Name: Latitude: 32.10294 Longitude: -103.18208 Section: 29 Township: 37E 25.0S Range: Unit ID: G Ft. N/S Dist: 1980 1980 Ft. N/S dir: Ft. E/W Dist: Ν Ft. E/W Dir: Е Elevation: Not Reported Depth: 0 Compdate: Not Reported Plugdate: Not Reported Datasource: Hobbs SSE 1/2 - 1 Mile NMOG005676 OIL_GAS

Api ID:	3052510620	Pool ID:	37240
Pool Name:	LANGLIE MATTIX;7 RVRS-Q-G	Rkangebuorg	001
Well Name:	COLL A	County ID:	25
County Name:	Lea	Operator ID:	0
Op. Name:	Not Reported		
Latitude:	32.10294		
Longitude:	-103.18208	Section:	29
Township:	25.0S	Range:	37E
Unit ID:	G	Ft. N/S Dist:	1980
Ft. N/S dir:	N	Ft. E/W Dist:	1980
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Preongard

Direction Distance

Database EDR ID Number

NMOG005664

NMOG005759

SE 1/2 - 1 Mile			OIL_GAS	NMOG055142
Api ID:	3002511824	Pool ID:	75760	
Pool Name:	CROSBY;DEVONIAN (GAS)	Well ID:	001	
Well Name:	ARCO SRC	County ID:	25	
County Name:	Lea	Operator ID:	999027	
Op. Name:	ARCO OIL & GAS CO			
Latitude:	32.10294			
Longitude:	-103.17782	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

SE 1/2 - 1 Mile

Api ID:	3052510622	Pool ID:	75480	
Pool Name:	CROSBY;DEVONIAN (GAS)	Well ID:	001	
Well Name:	COLL	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10294			
Longitude:	-103.17782	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SE 1/2 - 1 Mile

Api ID:	3052510622	Pool ID:	74800	
Pool Name:	CHAVEROO;CANYON, N	IORTH (12/48)D:	001	
Well Name:	COLL	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.10294			
Longitude:	-103.17782	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	н	Ft. N/S Dist:	1980	
Ft. N/S dir:	N	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

OIL_GAS

OIL_GAS

. A¹1 GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance

EDR ID Number Database

SSE 1/2 - 1 Mile			OIL_GAS	NMOG055121
Api ID:	3002511830	Pool ID:	96131	
Pool Name:	SWD;SEVEN RIVERS	Well ID:	002	
Well Name:	GUTMAN SWD	County ID:	25	
County Name:	Lea	Operator ID:	188294	
Op. Name:	AMERICAN INLAND RESO	URCES COMPANY LLC		
Latitude:	32.1002			
Longitude:	-103.18105	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	2310	
Ft. N/S dir:	S	Ft. E/W Dist:	1650	
Ft. E/W Dir:	E	Elevation:	3028 GL	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Ongard	

South 1/2 - 1 Mile

Api ID:	3052510626	Pool ID:	79240	
Pool Name:	JALMAT; TAN-YATES-7	rvrs (PRAGICIES)	002	
Well Name:	JENKINS	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.0993			
Longitude:	-103.1866	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	к	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

South 1/2 - 1 Mile

Api ID:	3002511833	Pool ID:	
Pool Name:	JALMAT;TAN-YATES-7 RV	(RS (PRAGICIDES)	
Well Name:	CARRIE L JENKINS	County ID:	
County Name:	Lea	Operator ID:	
Op. Name:	TEXAS PACIFIC OIL CO IN	1C .	
Latitude:	32.0993		
Longitude:	-103.1866	Section:	
Township:	25.0S	Range:	
Unit ID:	к	Ft. N/S Dist:	
Ft. N/S dir:	S	Ft. E/W Dist:	
Ft. E/W Dir:	W	Elevation:	
Depth:	0	Compdate:	
Plugdate:	Not Reported	Datasource:	

OIL_GAS

79240

22659

002

25

29 37E

1980

1980 Not Reported

Not Reported Hobbs

OIL_GAS

NMOG055105

NMOG005690

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Direction Distance

Database EDR ID Number

SSE 1/2 - 1 Mile

OIL_GAS NMOG005760

Api ID:	3052510625	Pool ID:	37240	
Pool Name:	LANGLIE MATTIX;7 R\	LANGLIE MATTIX;7 RVRS-Q-GRWHBUBRG		
Well Name:	GUTMAN	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.0993			
Longitude:	-103.18212	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	J	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	1980	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

South 1/2 - 1 Mile

2 - 1 Mile			OIL_GAS	NMOG005691
Api ID:	3052510627	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	7 RVRS (OW)ell ID:	004	
Well Name:	JENKINS	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.09929			
Longitude:	-103.19086	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	L	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

South

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Api ID:	3002511835	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	004	
Well Name:	JENKINS	County ID:	25	
County Name:	Lea	Operator ID:	22659	
Op. Name:	TEXAS PACIFIC OIL CO) INC		
Latitude:	32.09929			
Longitude:	-103.19038	Section:	29	
Township:	25.0S	Range:	37E	
Unit ID:	L	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	810	
Ft. E/W Dir:	W	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

OIL_GAS

NMOG055182

Direction Distance

EDR ID Number Database

SSW 1/2 - 1 Mile			OIL_GAS	NMOG005929
Api ID:	3052510635	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (PRAGICIDES)	003	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	-		
Latitude:	32.09928			
Longitude:	-103.19512	Section:	30	
Township:	25.0S	Range:	37E	
Unit ID:	1	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SSW 1/2 - 1 Mil

		OIL_GAS	NMOG006027
3052510637	Pool ID:	33820	
JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	004	
WINNINGHAM	County ID:	25	
Lea	Operator ID:	0	
Not Reported	-		
32.09928			
-103.19512	Section:	30	
25.0S	Range:	37E	
1	Ft. N/S Dist:	1980	
S	Ft. E/W Dist:	660	
E	Elevation:	Not Reported	
0	Compdate:	Not Reported	
Not Reported	Datasource:	Preongard	
	JALMAT;TAN-YATES-7 WINNINGHAM Lea Not Reported 32.09928 -103.19512 25.0S I S E O	JALMAT;TAN-YATES-7 RVRS (OWell ID: WINNINGHAM County ID: Lea Operator ID: Not Reported 32.09928 -103.19512 Section: 25.0S Range: I Ft. N/S Dist: S Ft. E/W Dist: E Elevation: 0 Compdate:	JALMAT;TAN-YATES-7 RVRS (OW)BII ID:004WINNINGHAMCounty ID:25LeaOperator ID:0Not Reported32.09928-103.19512Section:3025.0SRange:37EIFt. N/S Dist:1980SFt. E/W Dist:660EElevation:Not Reported0Compdate:Not Reported

SSW 1/2 - 1 Mile

OIL_GAS NMOG005928

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Api ID:	3052510634	Pool ID:	37240
Pool Name:	LANGLIE MATTIX;7 RVRS-Q-G	RXXXXBUDRG	003
Well Name:	WINNINGHAM	County ID:	25
County Name:	Lea	Operator ID:	0
Op. Name:	Not Reported		
Latitude:	32.09928		
Longitude:	-103.19512	Section:	30
Township:	25.0S	Range:	37E
Unit ID:	ł	Ft. N/S Dist:	1980
Ft. N/S dir:	S	Ft. E/W Dist:	660
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Preongard

10.

OIL_GAS

OIL_GAS

Direction Distance

4

Database EDR ID Number

NMOG005722

NMOG005761

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SSW 1/2 - 1 Mile			OIL_GAS	NMOG005706
Api ID:	3052510638	Pool ID:	33820	
Pool Name:	JALMAT; TAN-YATES-7	RVRS (OW/ell ID:	006	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported	·		
Latitude:	32.09928			
Longitude:	-103.19512	Section:	30	
Township:	25.0S	Range:	37E	
Unit ID:	I	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SSW 1/2 - 1 Mile

Api ID:	3052510639	Pool ID:	33820	
Pool Name:	JALMAT;TAN-YATES-7	RVRS (OW)ell ID:	004	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	0	
Op. Name:	Not Reported			
Latitude:	32.09928			
Longitude:	-103.19512	Section:	30	
Township:	25.0S	Range:	37E	
Unit ID:	1	Ft. N/S Dist:	1980	
Ft. N/S dir:	S	Ft. E/W Dist:	660	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Preongard	

SSW 1/2 - 1 Mile

Api ID:	3052510636	Pool ID:	33820
Pool Name:	JALMAT; TAN-YATES-7 RVR	S(OWU)ellID:	005
Well Name:	WINNINGHAM	County ID:	25
County Name:	Lea	Operator ID:	0
Op. Name:	Not Reported		
Latitude:	32.09928		
Longitude:	-103.19512	Section:	30
Township:	25.0S	Range:	37E
Unit ID:	I	Ft. N/S Dist:	1980
Ft. N/S dir:	S	Ft. E/W Dist:	660
Ft. E/W Dir:	E	Elevation:	Not Reported
Depth:	0	Compdate:	Not Reported
Plugdate:	Not Reported	Datasource:	Preongard

Direction Distance

Database EDR ID Number

SSW 1/2 - 1 Mile			OIL_GAS	NMOG055211
Api ID:	3002511843	Pool ID:	79240	
Pool Name:	JALMAT;TAN-YATES-7	• •	003	
Well Name:	WINNINGHAM	County ID:	25	
County Name:	Lea	Operator ID:	14538	
Op. Name:	MERIDIAN OIL INC			
Latitude:	32.09915			
Longitude:	-103.19406	Section:	30	
Township:	25.0S	Range:	37E	
Unit ID:	1	Ft. N/S Dist:	1930	
Ft. N/S dir:	S	Ft. E/W Dist:	330	
Ft. E/W Dir:	E	Elevation:	Not Reported	
Depth:	0	Compdate:	Not Reported	
Plugdate:	Not Reported	Datasource:	Hobbs	

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AREA RADON INFORMATION

State Database: NM Radon

Radon Test Results

Zip	Total Sites	Pct. < 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	> 20 Pci/L
_	<u></u>				
88252	2	100.0	0.0	0.0	0.0

Federal EPA Radon Zone for LEA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 88252

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

i.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Amdt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

- **Oil and Gas Well Locations**
 - Source: New Mexico Institute of Mining and Technology Telephone: 505-835-5142

RADON

State Database: NM Radon

Source: Environment Department Telephone: 505-827-1093 Radon Test Results

Area Radon Information

Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a completion of the EPA/State Residential Badon Survey and the National Basid

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX G

LABORATORY REPORTS WITH CHAIN-OF-CUSTODY FORMS

<u></u>		RUNCO SO	IL SAN	IPLES	QUICK	(LOO	K SH	EET		
		Conductivity	pН	pН	4	TPH	.	TPH DRO	TPH GRO	Chloride
		(µs)		Lab	PID	<>>500	LAB	(mg/Kg)	(mg/Kg)	(mg/Kg)
	<u>EXC1@8'</u>	25	7.65	7.50	0		X	<50.0	<1.00	20.0
8/24/2004	EXC2N@1.5	282	8.86		0					
	EXC2N@3'	252	7.97		0					
8/24/2004	EXC2S@1.5	81	10.01	9.96	0		Х	<50.0	<1.00	339.0
8/24/2004	EXC2S@3'	56	9.77		0					
8/24/2004	EXC3M@1.5'	81	9.3	9.12	0		X	<50.0	<1.00	985.0
8/24/2004	EXC3M@3'	207	7.93		0					
8/24/2004	EXC3N@1.5'	101	8.84	8.81	0		X	<50.0	<1.00	957.0
8/24/2004	EXC3N@3'	40	8.79	8.93	0		X	<50.0	<1.00	323.0
8/24/2004	EXC3S@1.5'	409	9.59		0					
8/24/2004	EXC3S@3'	241	9.67	9.37	0		Х	<50.0	<1.00	5790.0
8/24/2004	EXC4M@3'	130	8.67	8.60	0		X	<50.0	<1.00	1800.0
8/24/2004	EXC4N@1.5'	56	8.5		0					
8/24/2004	EXC4N@3'	81	8.1		0					
8/24/2004	EXC4S@1.5'	121	8.32	8.48	0		X	<50.0	<1.00	913.0
8/24/2004	EXC4S@3'	89	8.17		0	1				
8/25/2004		130	8.54		0					
8/25/2004		94	8.44	8.68	0		X	<50.0	<1.00	1610.0
8/25/2004	SB1@20'	94	8.4		0					···
8/25/2004		25	7.97	8.44	0		X	<50.0	<1.00	107.0
8/25/2004		100	8.07		0	1				
8/25/2004		78	8.11	8.14	0		Х	<50.0	<1.00	699.0
8/25/2004		78	8.2		0					
8/25/2004	the second secon	38	9.01	8.52	0	<u> </u>	X	<50.0	<1.00	121.0
8/26/2004		130	9.01		0	1			1	······································
8/26/2004	SB3@10'	159	7.95	8.28	0		Х	<50.0	<1.00	600.0
8/26/2004		51	8.36		0					
8/26/2004		38	8.39	8.73	0	1	X	<50.0	<1.00	90.1
	SB4@2-5'	51	7.94		0	1				
the second s	SB4@9-10'	25	8.2	8.59	0	+	X	<50.0	<1.00	29.6
	SB4@19-20'	59	8.45		0	1				·
	SB4@25-27'	94	8.32		0			······		
	SB4@30-32'	94	8.19	8.43	0	1	X	<50.0	<1.00	275.0

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			RUNCO	WATER	WATER SAMPLES - QUICK LOOK SHEET	S - QUIC	K LOOK	SHEET			
Date Sample ID:	Conductivity (µs)	Hd	Temp (C)	DTW (ft)	œ	BTEX T	(mg/L) E	*	Naph (mg/L)	Chloride (mg/L)	TDS (mg/L) NOTES
8/27/2004 MW-1	3.0	7.51	21.8	29.55	<0.00100	<0.00100	<0.00100	<0.00100	<0.000200	472	2560
8/27/2004 MW-2	3.7	7.44	22.6	29.78	<0.00100	•		<0.00100		731	3015
8/27/2004 MW-3	4.3	7.33	22.7	24.70	<0.00100	•		<0.00100		965	3185
8/27/2004 MW-4	4.9	7.28	22.7	26.91	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1200	3630
NMWQCC Stds.					10	750	750	620	30	250	1000

Report Date: September 15, 2004 1507-1.0

Work Order: 4083002 RUNCO Page Number: 1 of 4 Jal,NM

Summary Report

Ginger Gritzo RESPEC 4775 Indian School Rd. NE Suite 300 Albuquerque, NM 87110

Project Location:Jal,NMProject Name:RUNCOProject Number:1507-1.0

Report Date: September 15, 2004

Work Order: 4083002

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
42479	Exc @ 8'	soil	2004-08-23	15:05	2004-08-28
42480	Exc 25 @ 1.5'	soil	2004-08-23	15:10	2004-08-28
42481	Exc 35 @ 3'	soil	2004-08-23	15:15	2004-08-28
42482	Exc 4M @ 3'	soil	2004-08-23	15:20	2004-08-28
42483	Exc 3M @ 1.5'	soil	2004-08-23	15:25	2004-08-28
42484	Exc 3N @ 3'	soil	2004-08-23	15:30	2004-08-28
424 85	Exc 4S @ 1.5'	soil	2004-08-23	15:35	2004-08-28
42486	Exc 3N @ 1.5'	soil	2004-08-23	15:40	2004-08-28
42487	SB1 @ 10	soil	2004-08-25	11:00	2004-08-28
42488	SB1 @ 30	soil	2004-08-25	11:30	2004-08-28
42489	SB2 @ 10	soil	2004-08-25	14:00	2004-08-28
42490	SB2 @ 30	soil	2004-08-25	14:30	2004-08-28
42491	SB3 @ 10	soil	2004-08-26	09:00	2004-08-28
42492	SB3 @ 30	soil	2004-08-26	09:30	2004-08-28
42493	SB4 @ 9-10	soil	2004-08-26	13:00	2004-08-28
42494	SB4 @ 30-32	soil	2004-08-26	13:30	2004-08-28

Comment(s)

Work Order 4083002: Sample #42496 and #42497 Were stored in plastic containers for PAH.

	TPH DRO	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
42479 - Exc @ 8'	<50.0	<1.00
42480 - Exc 25 @ 1.5'	<50.0	<1.00
42481 - Exc 35 @ 3'	<50.0	<1.00
42482 - Exc 4M @ 3'	<50.0	<1.00
42483 - Exc 3M @ 1.5'	<50.0	<1.00
42484 - Exc 3N @ 3'	<50.0	<1.00
42485 - Exc 4S @ 1.5'	<50.0	<1.00
42486 - Exc 3N @ 1.5'	<50.0	<1.00
42487 - SB1 @ 10	<50.0	<1.00
42488 - SB1 @ 30	<50.0	<1.00
42489 - SB2 @ 10	<50.0	<1.00
42490 - SB2 @ 30	<50.0	<1.00

continued ...

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Report Date: September 15, 2004	Work Order: 4083002	Page Number: 2 of 4
1507-1.0	RUNCO	Jal,NM

... continued

	TPH DRO DRO	TPH GRO GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
42491 - SB3 @ 10	<50.0	<1.00
42492 - SB3 @ 30	<50.0	<1.00
42493 - SB4 @ 9-10	<50.0	<1.00
42494 - SB4 @ 30-32	<50.0	<1.00

Sample: 42479 - Exc @ 8'

Param	Flag	Result	Units	RL
Chloride		20.0	mg/Kg	1.00
pН		7.50	s.u.	0.00

Sample: 42480 - Exc 25 @ 1.5'

Param	Flag	Result	Units	RL
Chloride		339	mg/Kg	1.00
pH		9.96	s.u.	0.00

Sample: 42481 - Exc 35 @ 3'

Param	Flag	Result	Units	RL
Chloride		5790	mg/Kg	1.00
pH		9.37	s.u.	0.00

Sample: 42482 - Exc 4M @ 3'

Param	Flag	Result	Units	RL
Chloride		1800	mg/Kg	1.00
pH		8.60	s.u.	0.00

Sample: 42483 - Exc 3M @ 1.5'

Param	Flag	Result	Units	RL
Chloride	· • • • • • • • • • • • • • • • • • • •	985	mg/Kg	1.00
<u>pH</u>		9.12	s.u.	0.00

Sample: 42484 - Exc 3N @ 3'

Param	Flag	Result	Units	RL
Chloride		323	mg/Kg	1.00
<u>pH</u>		8.93	s.u.	0.00

Sample: 42485 - Exc 4S @ 1.5'

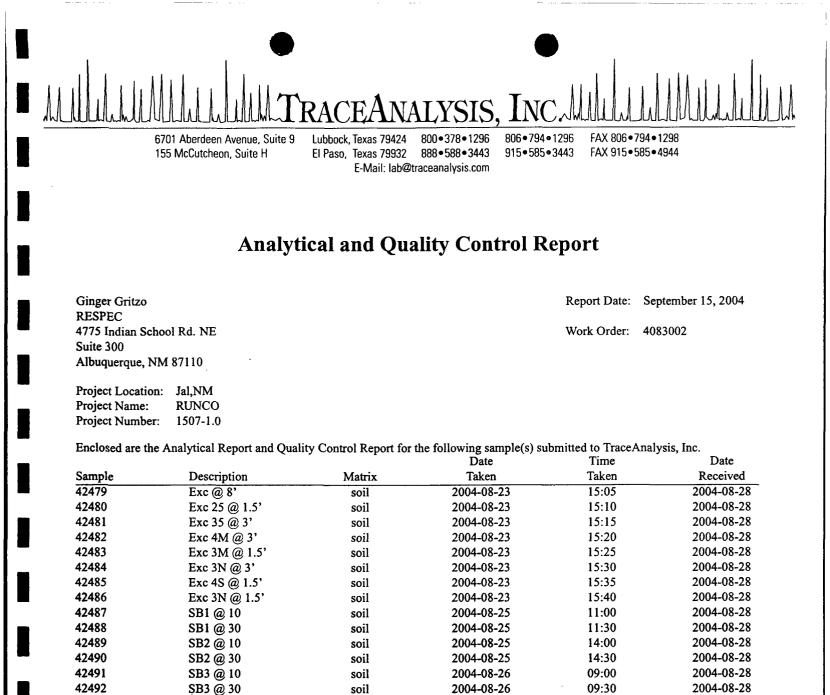
Report Date: September 15, 2004 1507-1.0		Work Order: 4083002 RUNCO		Page Number: 3 of 4 Jal,NM	
Param	Flag	Result	Units	RI	
Chloride	1100	913	mg/Kg	1.0	
рН		8.48	<u>s.u.</u>	0.0	
Sample: 42486 -	Exc 3N @ 1.5'				
Param	Flag	Result	Units	RI	
Chloride		957	mg/Kg	1.0	
pH		8.81	s.u.	0.0	
Sample: 42487 -	SB1 @ 10				
Param	Flag	Result	Units	R	
Chloride		1610	mg/Kg	1.0	
рН		8.68	S.U.	0.0	
Sample: 42488 - Param	SB1 @ 30 Flag	Result	Units	R	
		107 8.44	mg/Kg s.u.		
pH Sample: 42489 -		8.44	<u>s.u.</u>	0.0	
pH Sample: 42489 - Param	SB2 @ 10 Flag	8.44 Result	s.u. Units	0.0	
pH Sample: 42489 - Param Chloride		8.44 Result 699 8.14	s.u. Units mg/Kg s.u.	0.0 R 1.0	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride	Flag	8.44 Result 699 8.14	s.u. Units mg/Kg	0.0 R 1.0 0.0 R 1.0	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH	Flag SB2 @ 30 Flag	8.44 Result 699 8.14 Result 121	S.u. Units mg/Kg s.u. Units mg/Kg	0.0 R 1.0 0.0 R 1.0	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH Sample: 42491 - Param	Flag SB2 @ 30 Flag	8.44 Result 699 8.14 Result 121 8.52 Result	Units mg/Kg s.u. Units mg/Kg s.u. Units	0.0 RJ 1.0 0.0 RJ 1.0 0.0 RJ RJ	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH Sample: 42491 - Param Chloride	Flag SB2 @ 30 Flag SB3 @ 10	8.44 Result 699 8.14 Result 121 8.52 Result 600	Units mg/Kg s.u. Units mg/Kg s.u.	0.0 RJ 1.0 0.0 RJ 1.0 0.0 RJ 1.0	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH Sample: 42491 - Param Chloride	Flag SB2 @ 30 Flag SB3 @ 10	8.44 Result 699 8.14 Result 121 8.52 Result	Units mg/Kg s.u. Units mg/Kg s.u. Units	0.0 R 1.0 0.0 R 1.0 0.0 R 1.0 1.0	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH Sample: 42491 - Param Chloride pH	Flag SB2 @ 30 Flag SB3 @ 10 Flag	8.44 Result 699 8.14 Result 121 8.52 Result 600	Units mg/Kg s.u. Units mg/Kg s.u. Units mg/Kg	0.0 R 1.0 0.0 R 1.0 0.0 R 1.0 1.0	
pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH Sample: 42491 - Param Chloride pH Sample: 42492 - Param	Flag SB2 @ 30 Flag SB3 @ 10 Flag	8.44 Result 699 8.14 Result 121 8.52 Result 600 8.28	Units mg/Kg s.u. Units mg/Kg s.u. Units mg/Kg s.u. Units	0.0 RJ 1.0 0.0 RJ 1.0 0.0 RJ 1.0 0.0	
Chloride pH Sample: 42489 - Param Chloride pH Sample: 42490 - Param Chloride pH Sample: 42491 - Param Chloride pH Sample: 42492 - Param Chloride pH	Flag SB2 @ 30 Flag SB3 @ 10 Flag SB3 @ 30	8.44 Result 699 8.14 Result 121 8.52 Result 600 8.28	Units mg/Kg s.u. Units mg/Kg s.u. Units mg/Kg s.u.	1.00 0.00 RI 1.00 0.00 RI 1.00 0.00 RI 1.00 0.00 RI 1.00 0.00	

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Report Date: Sept 1507-1.0	ember 15, 2004	Work Order: 4083002 RUNCO		Page Number: 4 of 4 Jal,NM
Sample: 42493 -	SB4 @ 9-10			
Param	Flag	Result	Units	RL
Chloride		29.6	mg/Kg	1.00
pH		8.59	s.u.	0.00

Sample: 42494 - SB4 @ 30-32

Param	Flag	Result	Units	RL
Chloride		275	mg/Kg	1.00
pН		8.43	s.u.	0.00



Comment(s)

42493

42494

Work Order 4083002: Sample #42496 and #42497 Were stored in plastic containers for PAH.

soil

soil

SB4 @ 9-10

SB4 @ 30-32

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.

2004-08-26

2004-08-26

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

13:00

13:30

Dr. Blair Leftwich, Director

2004-08-28

2004-08-28

Report Date: September 15, 2004	Work Order: 4083002
1507-1.0	RUNCO

Analytical Report

Sample: 42479 - Exc @ 8'

Chloride (IC)		Analytical Method:	E 300.0		Prep Method:	N/A
12420		Date Analyzed:	2004-08-31		Analyzed By:	MW
10968		Date Prepared:	2004-08-31		Prepared By:	MW
		RL				
F	lag	Result	Units	Dilution		RL
		20.0	mg/Kg	10		1.00
	12420 10968	12420	12420 Date Analyzed: 10968 Date Prepared: RL Flag Result	12420Date Analyzed:2004-08-3110968Date Prepared:2004-08-31RLFlagResultUnits	12420Date Analyzed:2004-08-3110968Date Prepared:2004-08-31RLFlagResultUnitsDilution	12420Date Analyzed:2004-08-31Analyzed By:10968Date Prepared:2004-08-31Prepared By:RLFlagResultUnitsDilution

Sample: 42479 - Exc @ 8'

Analysis: QC Batch: Prep Batch:	рН 12428 10979		Analytical Method: Date Analyzed: Date Prepared:	SM 4500-H+ 2004-08-31 2004-08-31		Prep Method: Analyzed By: Prepared By:	MW
Parameter		Flag	RL Result	Units	Dilution		RL
pH			7.50	s.u.	1		0.00

Sample: 42479 - Exc @ 8'

Analysis:	TPH DRO			Analytical Metho	d: Mod. 80	15B	Prep	Method:	N/A
QC Batch:	12399			Date Analyzed:	2004-08-	-31	Anal	yzed By:	BP
Prep Batch:	10948			Date Prepared:	2004-08-	-30	Prepa	ared By:	DS
				RL					
Parameter		Flag		Result	Uni	ts	Dilution		RL
DRO	· · · · ·			<50.0	mg/K	g	1		50.0
						Spike	Percent	Recov	very
Surrogate	Fla	g	Result	Units	Dilution	Amount	Recovery	Lim	its
n-Triacontan	e		169	mg/Kg	1	150	112	64.7 -	162

Sample: 42479 - Exc @ 8'

Analysis: QC Batch: Prep Batch:	TPH GRO 12391 10942		Analytical Date Analy Date Prepa	zed:	S 8015B 2004-08-30 2004-08-30		•	nod: S 5035 By: MS By: MS
			RL					
Parameter	Flag		Result		Units	Di	lution	RL
GRO			<1.00		mg/Kg		10	0.100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.746	mg/Kg	10	0.100	75	70 - 130
4-Bromofluo	robenzene (4-BFB)		0.940	mg/Kg	10	0.100	94	70 - 130

1507-1.0	: September 15,	2004		Work	Order: 40830 RUNCO	002			Page Number	: 3 of 2 Jal,NN
Sample: 424	480 - Exc 25 @	1.5'								
Analysis:	Chloride (IC)			Analytical Me	thod: E 300	0.0			Prep Method	: N/A
QC Batch:	12420			Date Analyze		-08-31			Analyzed By	
Prep Batch:	10968			Date Prepared		-08-31			Prepared By:	
				RL						
Parameter		Flag		Result	Un	nits		Dilution		R
Chloride	····			339	mg/l	Kg		50		1.0
Sample: 424	480 - Exc 25 @ 1	1.5'								
Analysis:	pН			Analytical Method					Prep Method:	
QC Batch:	12428			Date Analyzed:	2004-08-3				Analyzed By:	
Prep Batch:	10979			Date Prepared:	2004-08-3	51			Prepared By:	M١
_				RL						
Parameter		Flag		Result	Uni			Dilution		R
pH				9.96	S.	.u.		1		0.0
Analysis:	480 - Exc 25 @ 1 TPH DRO 12399	1.5'		Analytical Meth					Prep Method Analyzed By	
Analysis: QC Batch:	-	1.5'		Analytical Meth Date Analyzed: Date Prepared:	od: Mod. 86 2004-08 2004-08	8-31			Prep Method Analyzed By Prepared By:	: BP
Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948			Date Analyzed: Date Prepared: RL	2004-08 2004-08	8-31 8-30		Dilution	Analyzed By	: BP DS
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948	1.5' Flag		Date Analyzed: Date Prepared: RL Result	2004-08 2004-08 Un	8-31 8-30 hits		Dilution	Analyzed By	: BP DS R
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948			Date Analyzed: Date Prepared: RL	2004-08 2004-08	8-31 8-30 hits Kg		1	Analyzed By Prepared By:	: BP DS R 50.
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 12399 10948		Result	Date Analyzed: Date Prepared: RL Result	2004-08 2004-08 Un	8-31 8-30 hits Kg			Analyzed By Prepared By: nt Re	: BP DS R 50.
Sample: 424 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	TPH DRO 12399 10948 Flag		Result 162	Date Analyzed: Date Prepared: RL Result <50.0	2004-08 2004-08 Un mg/I	8-31 8-30 hits Kg	-	1 Percer	Analyzed By Prepared By: nt Re ry I	: BP DS R 50.
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	TPH DRO 12399 10948 Flag	Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units	2004-08 2004-08 Un mg/I Dilution 1	3-31 3-30 iits Kg A -30	mount	1 Percer Recove 108 P A	Analyzed By Prepared By: nt Re rry I 64. Prep Method: analyzed By:	BP DS <u>R</u> 50. cover jimits 7 - 16
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 Flag e 180 - Exc 25 @ 1 TPH GRO 12391	Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Methe Date Analyzed:	2004-08 2004-08 Un mg/I Dilution 1 od: S 8015B 2004-08	3-31 3-30 iits Kg A -30	mount	1 Percer Recove 108 P A	Analyzed By Prepared By: nt Re rry I 64. Prep Method: analyzed By:	BP DS <u>R</u> 50. cover jimits 7 - 16 S 503 MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 180 - Exc 25 @ 1 TPH GRO 12391 10942	Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Methe Date Analyzed: Date Prepared: RL Result	2004-08 2004-08 Un mg/I Dilution 1 0d: S 8015B 2004-08 2004-08 2004-08	3-31 3-30 iits Kg A -30 -30 -30 ts	imount 150	1 Percer Recove 108 P A P Dilution	Analyzed By Prepared By: nt Re rry I 64. Prep Method: analyzed By:	E BP DS 50. 50. 50. 50. 50. 7 - 16 S 503 MS MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 180 - Exc 25 @ 1 TPH GRO 12391 10942	Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Metho Date Analyzed: Date Prepared: RL	2004-08 2004-08 Un mg/J Dilution 1 od: S 8015B 2004-08- 2004-08-	3-31 3-30 iits Kg A -30 -30 -30 ts	imount 150	1 Percer Recove 108 P A P	Analyzed By Prepared By: nt Re rry I 64. Prep Method: analyzed By:	R DS S 50. Cover, Cimits 7 - 16 S 503 MS MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 180 - Exc 25 @ 1 TPH GRO 12391 10942	Flag	162	Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Methe Date Analyzed: Date Prepared: RL Result	2004-08 2004-08 Un mg/I Dilution 1 od: S 8015B 2004-08 2004-08 2004-08 Uni mg/K	3-31 3-30 iits Kg A -30 -30 -30 ts g	Spike	1 Percer Recove 108 P A P Dilution 10 Per	Analyzed By Prepared By: nt Re ery <u>I</u> 64. Prep Method: analyzed By: Prepared By: Prepared By: Prepared By:	BP DS R 50. cover jimits 7 - 16 S 503 MS MS MS MS MS R 0.10 cover
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: GRO	TPH DRO 12399 10948 Flag e 180 - Exc 25 @ 1 TPH GRO 12391 10942	Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Methe Date Analyzed: Date Prepared: RL Result <1.00 Result Un	2004-08 2004-08 Un mg/I Dilution 1 od: S 8015B 2004-08 2004-08 2004-08 Uni mg/K	3-31 3-30 iits Kg A -30 -30 -30 ts g ution	Spike Amount	1 Percer Recove 108 P A P Dilution 10 Per Rec	Analyzed By Prepared By: nt Re ry L 64. Prep Method: analyzed By: prepared By: prepared By: repared By: repared By: Prepared By: Prepar	BP DS S 50. Cover Jimits 7 - 16 S 503 MS MS MS MS R 0.10 Cover Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu	TPH DRO 12399 10948 Flag e 180 - Exc 25 @ 1 TPH GRO 12391 10942	Flag 1.5'	162	Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Methe Date Analyzed: Date Prepared: RL Result <1.00	2004-08 2004-08 Un mg/I Dilution 1 od: S 8015B 2004-08 2004-08 2004-08 2004-08 Uni mg/K	3-31 3-30 iits Kg A -30 -30 -30 ts g	Spike	1 Percer Recove 108 P A P Dilution 10 Per Rec	Analyzed By Prepared By: nt Re Prep Method: Analyzed By: Prepared By:	BP DS S 50. cover jimits 7 - 16 S 503 MS MS MS MS MS Cover cover

Sample: 42481 - Exc 35 @ 3'

1507-1.0	e: September 15	5, 2004				rder: 4083002 RUNCO	11		Page Number:	4 of 24 Jal,NM
Analysis:	Chloride (IC)			Analy	tical Meth	od: E 300.0			Prep Method:	N/A
QC Batch:	12420				Analyzed:	2004-08-3	31		Analyzed By:	
Prep Batch:	10968				Prepared:	2004-08-3	31		Prepared By:	MW
				RL						
Parameter		Flag		Result		Units		Dilution		RL
Chloride				5790		mg/Kg		500		1.00
Sample: 424	481 - Exc 35 @	3'								
Analysis:	pН			Analytical	Method:	SM 4500-H+			Prep Method:	N/A
QC Batch:	12428			Date Analy		2004-08-31			Analyzed By:	MW
Prep Batch:	10979			Date Prepa		2004-08-31			Prepared By:	MW
				RL						
Parameter		Flag		Result		Units		Dilution		RL
ъH	·	. <u>.</u>	,	9.37		s.u.		1		0.00
Analysis: QC Batch: ^A rep Batch:	TPH DRO 12399 10948			Analytic Date An Date Pre		: Mod. 8015E 2004-08-31 2004-08-30	3		Prep Method: Analyzed By: Prepared By:	N/A BP DS
									•	
				RL						
		Flag		Result		Units		Dilution		
Parameter DRO		Flag				Units mg/Kg		Dilution 1		RL 50.0
DRO		Flag	Recult	Result <50.0		mg/Kg	Spike	l Percen		50.0
DRO	Flag	Flag	Result 171	Result <50.0 Units			Spike Amount 150	1	y L	50.0 covery imits
DRO Surrogate -Triacontane	Flag			Result <50.0		mg/Kg Dilution	Amount	l Percen Recover	y L	50.0 covery imits
DRO Surrogate -Triacontanc ample: 424	Flag e 81 - Exc 35 @ 3			Result <50.0 Units mg/Kg		mg/Kg Dilution 1	Amount	l Percen Recover 114	<u>y L</u> 64.	50.0 covery imits 7 - 162
DRO Surrogate -Triacontanc Sample: 424 Analysis:	Flag e 81 - Exc 35 @ 3 TPH GRO			Result <50.0 Units mg/Kg Analytica	l Method:	mg/Kg Dilution 1 S 8015B	Amount	1 Percen Recover 114	ry L 64.7 ep Method: S	50.0 covery imits 7 - 162
ample: 424 Caralysis: C Batch:	Flag e 81 - Exc 35 @ 3 TPH GRO 12391			Result <50.0 Units mg/Kg Analytica Date Ana	l Method: lyzed:	mg/Kg Dilution 1 S 8015B 2004-08-30	Amount	1 Percen Recover 114 Pr An	ep Method: S halyzed By: 1	50.0 covery imits 7 - 162 S 5035 MS
DRO Gurrogate I-Triacontance Sample: 424 Analysis: QC Batch:	Flag e 81 - Exc 35 @ 3 TPH GRO			Result <50.0 Units mg/Kg Analytica	l Method: lyzed:	mg/Kg Dilution 1 S 8015B	Amount	1 Percen Recover 114 Pr An	ep Method: S halyzed By: 1	50.0 covery imits 7 - 162
Surrogate -Triacontance Sample: 424 Analysis: C Batch: rep Batch:	Flag e 81 - Exc 35 @ 3 TPH GRO 12391 10942	3,		Result <50.0 Units mg/Kg Analytica Date Ana Date Prep RL	l Method: lyzed:	mg/Kg Dilution 1 \$ 8015B 2004-08-30 2004-08-30	Amount 150	1 Percen Recover 114 Pr Ar Pr	ep Method: S halyzed By: 1	50.0 covery imits 7 - 162 S 5035 MS MS MS
Surrogate -Triacontance Sample: 424 Analysis: OC Batch: rep Batch: arameter	Flag e 81 - Exc 35 @ 3 TPH GRO 12391 10942			Result <50.0 Units mg/Kg Analytica Date Ana Date Prep	l Method: lyzed:	mg/Kg Dilution 1 S 8015B 2004-08-30	Amount 150	1 Percen Recover 114 Pr An	ep Method: S halyzed By: 1	50.0 covery imits 7 - 162 S 5035 MS
Surrogate -Triacontance Sample: 424 Analysis: OC Batch: Prep Batc	Flag e 81 - Exc 35 @ 3 TPH GRO 12391 10942	3,	171	Result <50.0 Units mg/Kg Analytica Date Ana Date Prep RL Result <1.00	Il Method: lyzed: pared:	mg/Kg Dilution 1 \$ 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg	Amount 150 Spike	1 Percen Recover 114 Pr An Pr Dilution 10 Perc	ep Method: S halyzed By: 1 epared By: 1	50.0 covery imits 7 - 162 5 5035 MS MS MS MS MS MS Covery
Surrogate -Triacontance Sample: 424 Analysis: OC Batch: rep Batch: arameter	Flag e 81 - Exc 35 @ 3 TPH GRO 12391 10942 H	3,		Result <50.0 Units mg/Kg Analytica Date Ana Date Prep RL Result	l Method: lyzed:	mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Amount 150 Spike	1 Percen Recover 114 Pr An Pr Dilution 10	ep Method: S halyzed By: 1 epared By: 1 cent Revery L	50.0 covery imits 7 - 162 5 5035 MS MS MS MS MS MS MS

Sample: 42482 - Exc 4M @ 3'

¹Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

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Report Date: 1507-1.0	: September 15	5, 2004		Woi		er: 4083002 NCO			Page Numbe	r: 5 of 2 Jal,N
Analysis: QC Batch: Prep Batch:	Chloride (IC) 12420 10968)		Analytical M Date Analyz Date Prepare	zed:	E 300.0 2004-08-31 2004-08-31			Prep Metho Analyzed By Prepared By	y: MV
				RL						
Parameter		Flag		Result		Units		Dilution		R
Chloride			- e, a e	1800		mg/Kg		100		1.0
Sample: 424	182 - Exc 4M (@ 3'								
Analysis:	pН			Analytical Metho	od: S!	M 4500-H+			Prep Method	i: N/2
QC Batch:	12428			Date Analyzed:		004-08-31			Analyzed By	
Prep Batch:	10979			Date Prepared:	20	004-08-31			Prepared By	
_				RL						_
Parameter		Flag		Result		Units		Dilution		R
pH				8.60		s.u.	-	1		0.0
Analysis:	82 - Exc 4M (TPH DRO 12399	@ 3'		Analytical Me Date Analyzed		Mod. 8015B 2004-08-31			Prep Metho Analyzed B	
Analysis: QC Batch:	TPH DRO	@ 3'		Date Analyzed Date Prepared	1:					y: BP
Analysis: QC Batch: Prep Batch:	TPH DRO 12399	-		Date Analyzed Date Prepared RL	1:	2004-08-31 2004-08-30		Dilution	Analyzed B	y: BF r: DS
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399	@ 3' Flag		Date Analyzed Date Prepared	1:	2004-08-31		Dilution 1	Analyzed B	y: BF r: DS R
Sample: 424 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRO 12399	Flag	Result	Date Analyzed Date Prepared RL Result	1: : 	2004-08-31 2004-08-30 Units mg/Kg	Spike Amount		Analyzed By Prepared By	y: BP y: DS
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 12399 10948 Flag	Flag	Result 167	Date Analyzed Date Prepared RL Result <50.0	l: : Dilu	2004-08-31 2004-08-30 Units mg/Kg	-	l Percen	Analyzed By Prepared By ut R	y: BP y: DS R 50. Lecover Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane	TPH DRO 12399 10948 Flag	Flag		Date Analyzed Date Prepared RL Result <50.0 Units	l: : Dilu	2004-08-31 2004-08-30 Units mg/Kg ution	Amount	1 Percen Recove	Analyzed By Prepared By ut R	y: BP y: DS R 50. Lecover Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis:	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO	Flag		Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met	l: Dilu	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B	Amount	1 Percen Recove 112 Pr	Analyzed By Prepared By nt R ry 64	y: BP 7: DS 8 50. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391	Flag		Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Meth Date Analyzed	l: Dilu hod:	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30	Amount	1 Percen Recove 112 Pr A	Analyzed By Prepared By nt R ry 64 rep Method: nalyzed By:	y: BP y: DS R 50. Lecover Limits 4.7 - 16 S 503 MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO	Flag		Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met	l: Dilu hod:	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B	Amount	1 Percen Recove 112 Pr A	Analyzed By Prepared By nt R Ty 64 rep Method:	y: BP y: DS R 50. ecover Limits 4.7 - 16 S 503
Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391	Flag 3		Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met Date Analyzed Date Prepared: RL	l: Dilu hod:	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30 2004-08-30	Amount 150	1 Percen Recover 112 Pr A Pr	Analyzed By Prepared By nt R ry 64 rep Method: nalyzed By:	y: BP y: DS R 50. Lecover Limits 4.7 - 16 S 503 MS MS
Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391	Flag		Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met Date Analyzed Date Prepared: RL Result	l: Dilu hod:	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30 2004-08-30 Units	Amount 150	1 Percen Recover 112 Pr A Pr Dilution	Analyzed By Prepared By nt R ry 64 rep Method: nalyzed By:	y: BP y: DS r: DS solution Lecover Limits 4.7 - 16 S 503 MS MS MS R
Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391	Flag 3		Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met Date Analyzed Date Prepared: RL	l: Dilu hod:	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30 2004-08-30	Amount 150	1 Percen Recover 112 Pr A Pr	Analyzed By Prepared By nt R ry 64 rep Method: nalyzed By: repared By:	y: BP y: DS R 50. Lecover Limits 4.7 - 16 S 503 MS MS MS R 0.10
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391	Flag 3	167	Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met Date Analyzed Date Prepared: RL Result <1.00	l: Dih	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg	Amount 150 Spike	1 Percen Recover 112 Pr A Pr Dilution 10 Perc	Analyzed By Prepared By nt R ry 64 rep Method: nalyzed By: repared By: repared By:	y: BP y: DS R 50. Lecover Limits 4.7 - 16 S 503 MS MS MS R 0.10 Recover
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391 10942	Flag 3	167 Flag	Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Met Date Analyzed Date Prepared: RL Result <1.00 Result U	l: Dih hod: 1 :	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Amount 150 Spike Amount	1 Percen Recover 112 Pr A Pr Dilution 10 Perc	Analyzed By Prepared By nt R ry 64 rep Method: nalyzed By: repared By: repared By:	y: BP y: DS R 50. Limits 4.7 - 16 S 503 MS MS MS R 0.10 Recover Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Frifluorotoluc	TPH DRO 12399 10948 Flag e 82 - Exc 4M (TPH GRO 12391 10942	Flag a) 3'	167	Date Analyzed Date Prepared RL Result <50.0 Units mg/Kg Analytical Mett Date Analyzed Date Prepared: RL Result <1.00 Result U 0.645 mg	l: Dih	2004-08-31 2004-08-30 Units mg/Kg ution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg	Amount 150 Spike	1 Percen Recove 112 Pr A Pr Dilution 10 Per Reco	Analyzed By Prepared By it R ry 64 rep Method: nalyzed By: repared By: cent R overy 4	y: BP 7: DS 8 50. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Sample: 42483 - Exc 3M @ 1.5'

²Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

Report Date 1507-1.0	e: September 15, 2004			Order: 4083002 RUNCO			Page Number:	6 of 24 Jal,NM
Analysis: QC Batch: Prep Batch:	Chloride (IC) 12420 10968		Analytical Met Date Analyzed Date Prepared:	: 2004-08-			Prep Method: Analyzed By: Prepared By:	N/A MW MW
			RL					
Parameter	Flag		Result	Units		Dilution		RL
Chloride			985	mg/Kg		100	·····	1.00
Sample: 424	483 - Exc 3M @ 1.5'							
Analysis:	pH		Analytical Method:	SM 4500-H+			Prep Method:	N/A
QC Batch:	12428		Date Analyzed:	2004-08-31			Analyzed By:	MW
Prep Batch:	10979		Date Prepared:	2004-08-31			Prepared By:	MW
-								
Parameter	Flag		RL Result	Units		Dilution		RL
pH	riag		9.12	s.u.	· · · · ·	1		0.00
Sample: 424	183 - Exc 3M @ 1.5'							
Analysis:	TPH DRO		Analytical Metho Date Analyzed:				Prep Method: Analyzed By:	
Analysis: QC Batch:	Ū.		Analytical Metho Date Analyzed: Date Prepared:	d: Mod. 80151 2004-08-31 2004-08-30			Prep Method: Analyzed By: Prepared By:	N/A BP DS
Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948		Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30			Analyzed By:	BP DS
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399		Date Analyzed: Date Prepared: RL Result	2004-08-31 2004-08-30 Units		Dilution	Analyzed By:	BP DS RL
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948		Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30		Dilution 1	Analyzed By:	BP DS RL
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 12399 10948 Flag		Date Analyzed: Date Prepared: RL Result <50.0	2004-08-31 2004-08-30 Units mg/Kg			Analyzed By: Prepared By: t Rec	BP DS RL 50.0
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRO 12399 10948 Flag	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	1 Percen Recover	Analyzed By: Prepared By: t Rec	BP DS RL 50.0 covery mits
Sample: 424 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontane	TPH DRO 12399 10948 Flag	Result 169	Date Analyzed: Date Prepared: RL Result <50.0	2004-08-31 2004-08-30 Units mg/Kg	Spike	1 Percen	Analyzed By: Prepared By: t Rec	BP DS RL 50.0
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontane	TPH DRO 12399 10948 Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	1 Percen Recover	Analyzed By: Prepared By: t Rec	BP DS RL 50.0 covery imits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontane Sample: 424	TPH DRO 12399 10948 Flag Flag		Date Analyzed: Date Prepared: RL Result <50.0 Units	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1	Spike Amount	1 Percen Recover 113	Analyzed By: Prepared By: t Rec ry Li 64.7	BP DS RL 50.0 covery imits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontance Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 Flag Flag e 83 - Exc 3M @ 1.5'		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed:	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1	Spike Amount	1 Percen Recover 113 Pr Ar	Analyzed By: Prepared By: t Rec ty Li 64.7 rep Method: S nalyzed By: M	BP DS RL 50.0 covery mits 7 - 162 S 5035 MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontane	TPH DRO 12399 10948 Flag Flag e 83 - Exc 3M @ 1.5' TPH GRO		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 : S 8015B	Spike Amount	1 Percen Recover 113 Pr Ar	Analyzed By: Prepared By: t Rec ty Li 64.7 rep Method: S nalyzed By: M	BP DS <u>RL</u> 50.0 covery <u>mits</u> 7 - 162
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate I-Triacontance Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 Flag e 83 - Exc 3M @ 1.5' TPH GRO 12391		Date Analyzed: Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 : \$ 8015B 2004-08-30	Spike Amount	1 Percen Recover 113 Pr Ar	Analyzed By: Prepared By: t Rec ty Li 64.7 rep Method: S nalyzed By: M	BP DS RL 50.0 covery mits 7 - 162

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.726	mg/Kg	10	0.100	73	70 - 130
4-Bromofluorobenzene (4-BFB)	-	0.906	mg/Kg	10	0.100	91	70 - 130

Sample: 42484 - Exc 3N @ 3'

Analysis: Chloride (IC)

1507-1.0	: September 15, 200	4		rder: 4083002 UNCO		Pa	ge Number:	7 of 2 Ial,NN
QC Batch: Prep Batch:	12420 10968		Date Analyzed: Date Prepared:	2004-08-3 2004-08-3			nalyzed By: repared By:	MW MW
			RL					
Parameter	Flag	5	Result	Units		Dilution		RI
Chloride			323	mg/Kg		10		1.00
Sample: 424	484 - Exc 3N @ 3'							
Analysis:	pН		Analytical Method:	SM 4500-H+		Pr	rep Method:	N/A
QC Batch:	12428		Date Analyzed:	2004-08-31			nalyzed By:	M٧
Prep Batch:	10979		Date Prepared:	2004-08-31			epared By:	М٧
			D.					
Parameter	Flag		RL Result	Units		Dilution		R
pH	r iag	5	8.93	s.u.		1		0.0
Analysis:	TPH DRO							
Analysis:	TOU NON					~		3.7/
			Analytical Method		5		rep Method:	
QC Batch:	12399		Date Analyzed:	2004-08-31	5	A	nalyzed By:	BP
QC Batch:					5	A		BP
QC Batch: Prep Batch:	12399 10948		Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30		A: Pr	nalyzed By:	BP DS
QC Batch: Prep Batch: Parameter	12399		Date Analyzed: Date Prepared: RL Result	2004-08-31 2004-08-30 Units		Ai Pr Dilution	nalyzed By:	BP DS RJ
QC Batch: Prep Batch: Parameter	12399 10948		Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30		A: Pr	nalyzed By:	BP DS RI
QC Batch: Prep Batch: Parameter DRO	12399 10948 Flag		Date Analyzed: Date Prepared: RL Result <50.0	2004-08-31 2004-08-30 Units mg/Kg	Spike	A: Pr Dilution 1 Percent	nalyzed By: repared By: 	BP DS RI 50.
QC Batch: Prep Batch: Parameter DRO Surrogate	12399 10948 Flag Flag	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units I	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	A: Pr Dilution 1 Percent Recovery	nalyzed By: repared By: Rec Li	BP DS RI 50.
QC Batch: Prep Batch: Parameter DRO Surrogate	12399 10948 Flag Flag		Date Analyzed: Date Prepared: RL Result <50.0	2004-08-31 2004-08-30 Units mg/Kg	Spike	A: Pr Dilution 1 Percent	nalyzed By: repared By: Rec Li	BP DS RI 50. overy mits
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	12399 10948 Flag Flag	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units I	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	A: Pr Dilution 1 Percent Recovery	nalyzed By: repared By: Rec Li	N/A BP DS RI 50. overy mits 7 - 16.
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	12399 10948 Flag Flag	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	A: Pr Dilution 1 Percent Recovery	nalyzed By: repared By: Rec Li	BP DS RI 50.
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis:	12399 10948 Flag Flag e 884 - Exc 3N @ 3' TPH GRO	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method:	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	A: Pr Dilution 1 Percent Recovery 120 Prep	nalyzed By: repared By: Rec Li 64.7	BP DS 8 50. 000000000000000000000000000000000
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch:	12399 10948 Flag e 184 - Exc 3N @ 3' TPH GRO 12391	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30	Spike Amount	A: Pr Dilution 1 Percent Recovery 120 Prep Anal	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M	BP DS 50. over mits - 16
QC Batch: Prep Batch: DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch:	12399 10948 Flag Flag e 884 - Exc 3N @ 3' TPH GRO	Result	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed: Date Prepared:	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1 S 8015B	Spike Amount	A: Pr Dilution 1 Percent Recovery 120 Prep Anal	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M	BP DS 8 50. 000000000000000000000000000000000
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424	12399 10948 Flag e 184 - Exc 3N @ 3' TPH GRO 12391	Result 180	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30	Spike Amount	A: Pr Dilution 1 Percent Recovery 120 Prep Anal	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M	BP DS 50. over mits - 16 5 503 AS AS
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	12399 10948 Flag Flag e 184 - Exc 3N @ 3' TPH GRO 12391 10942	Result 180	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Spike Amount	Ai Pr Dilution 1 Percent Recovery 120 Prep Anal Prep	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M	BP DS 50. over mits - 16 5 503 AS AS
QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	12399 10948 Flag Flag e 184 - Exc 3N @ 3' TPH GRO 12391 10942	Result 180	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed: Date Prepared: RL Result	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units	Spike Amount	A: Pr Dilution 1 Percent Recovery 120 Prep Anal Prep Dilution	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M ared By: M	BP DS 50. over: mits - 16 - 16 - 16 - 16 - 16 - 16 - 16 - 16
QC Batch: Prep Batch: DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate	12399 10948 Flag re 184 - Exc 3N @ 3' TPH GRO 12391 10942 Flag	Result 180 Flag	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed: Date Prepared: RL Result <1.00 Result Units	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Spike Amount 150 Spike Amount	A: Pr Dilution 1 Percent Recovery 120 Prep Anal Prep Dilution 10 Percent Recove	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M ared By: M ared By: M	BP DS 50. over mits - 16 5 503 AS AS AS RI 0.10 cover mits
QC Batch: Prep Batch: DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolu	12399 10948 Flag re 184 - Exc 3N @ 3' TPH GRO 12391 10942 Flag	Result 180	Date Analyzed: Date Prepared: RL Result <50.0 Units I mg/Kg Analytical Method: Date Analyzed: Date Prepared: RL Result <1.00	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution 3 10	Spike Amount 150 Spike	A: Pr Dilution 1 Percent Recovery 120 Prep Anal Prep Dilution 10 Percen	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: M ared By: M ared By: M	BP DS 50. over mits - 16 5 503 AS AS AS AS RI 0.10 cover

Sample: 42485 - Exc 4S @ 1.5'

³Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

1507-1.0	e: September 1	5, 2004	. <u> </u>			rder: 4083002 RUNCO			Page Number:	8 of 24 Jal,NM
Analysis:	Chloride (IC	C)		Analy	tical Meth	od: E 300.0			Prep Method:	N/A
QC Batch:	12420				Analyzed:	2004-08-3	31		Analyzed By:	
Prep Batch:					Prepared:	2004-08-3			Prepared By:	MW
				RL						
Parameter		Flag		Result		Units		Dilution		RL
Chloride				913		mg/Kg		100		1.00
Sample: 424	485 - Exc 4S (@ 1.5'								
Analysis:	pH	9		Analytical	Mathadi	SM 4500-H+			Prep Method:	N/A
QC Batch:	12428			Date Analy		2004-08-31			Analyzed By:	
rep Batch:	10979			Date Prepa		2004-08-31			Prepared By:	MW
				RL						
Parameter		Flag		Result		Units		Dilution		RL
H				8.48		s.u.		1		0.00
QC Batch:	12399			Date An		2004-08-31			Prep Method: Analyzed By:	BP
C Batch: rep Batch: arameter DRO	12399 10948	Flag		•	alyzed:			Dilution 1	-	BP DS RL
rep Batch: arameter		Flag		Date An Date Pre RL Result	alyzed:	2004-08-31 2004-08-30 Units			Analyzed By: Prepared By: nt Re	BP DS RL 50.0
rep Batch: arameter DRO urrogate	10948 Flag		Result	Date An Date Pre RL Result <50.0 Units	alyzed: pared:	2004-08-31 2004-08-30 Units	Spike Amount	1 Percer Recove	Analyzed By: Prepared By: nt Re- rry L	BP DS RL 50.0 covery imits
rep Batch: arameter	10948 Flag		Result 168	Date An Date Pre RL Result <50.0	alyzed: pared:	2004-08-31 2004-08-30 Units mg/Kg	Spike	1 Percer	Analyzed By: Prepared By: nt Re- rry L	BP DS RL 50.0 covery imits
rep Batch: arameter PRO urrogate -Triacontan	10948 Flag	g		Date An Date Pre RL Result <50.0 Units	alyzed: pared:	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution	Spike Amount	1 Percer Recove	Analyzed By: Prepared By: nt Re- rry L	BP DS RL 50.0 covery imits
rep Batch: arameter DRO urrogate -Triacontan ample: 424 nalysis:	10948 Flag e 85 - Exc 4S @ TPH GRO	g		Date An Date Pre RL Result <50.0 Units mg/Kg	alyzed: pared: E	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1	Spike Amount	1 Percer Recove 112	Analyzed By: Prepared By: nt Re rty L 64.	BP DS RL 50.0 covery imits 7 - 162 S 5035
rep Batch: arameter DRO urrogate -Triacontan ample: 424 nalysis: C Batch:	10948 Flag e 185 - Exc 4S @ TPH GRO 12391	g		Date An Date Pre RL Result <50.0 Units mg/Kg Analytica Date Ana	alyzed: pared: E	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1 S 8015B 2004-08-30	Spike Amount	1 Percer Recove 112 Pr	Analyzed By: Prepared By: nt Reary L 64. rep Method: 1 nalyzed By:	BP DS RL 50.0 covery imits 7 - 162 S 5035 MS
rep Batch: Parameter DRO -urrogate -Triacontan	10948 Flag e 85 - Exc 4S @ TPH GRO	g		Date An Date Pre RL Result <50.0 Units mg/Kg	alyzed: pared: E	2004-08-31 2004-08-30 <u>Units</u> mg/Kg Dilution 1 S 8015B	Spike Amount	1 Percer Recove 112 Pr	Analyzed By: Prepared By: nt Reary L 64. rep Method: analyzed By:	BP DS RL 50.0 covery imits 7 - 162
ample: 424 analysis: C Batch: rep Batch:	10948 Flag e 185 - Exc 4S @ TPH GRO 12391	g		Date An Date Pre RL Result <50.0 Units mg/Kg Analyticz Date Ana Date Prep RL	alyzed: pared: E	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Spike Amount 150	1 Percer Recove 112 Pr	Analyzed By: Prepared By: nt Reary L 64. rep Method: 1 nalyzed By:	BP DS <u>RL</u> 50.0 covery imits 7 - 162 S 5035 MS MS
rep Batch: arameter PRO urrogate -Triacontan ample: 424 nalysis: C Batch: rep Batch: arameter	10948 Flag e 185 - Exc 4S @ TPH GRO 12391	g		Date An Date Pre RL Result <50.0 Units mg/Kg Analytica Date Ana Date Prep	alyzed: pared: E	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units	Spike Amount 150	1 Percer Recove 112 P A P	Analyzed By: Prepared By: nt Reary L 64. rep Method: 1 nalyzed By:	BP DS RL 50.0 covery imits 7 - 162 S 5035 MS MS MS MS RL
arameter PRO UNTOGATE -Triacontan ample: 424 Malysis: OC Batch: rep Batch: rep Batch: arameter	10948 Flag e 185 - Exc 4S @ TPH GRO 12391	g		Date An Date Pre RL Result <50.0 Units mg/Kg Analyticz Date Ana Date Prep RL Result	alyzed: pared: E	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Spike Amount 150	1 Percer Recove 112 Pr A Pr Dilution 10	Analyzed By: Prepared By: nt Rea rry L 64. rep Method: nalyzed By: repared By:	BP DS RL 50.0 covery imits 7 - 162 S 5035 MS MS MS MS RL 0.100
arameter PRO urrogate -Triacontan ample: 424 nalysis: C Batch: rep Batch: arameter RO	10948 Flag e 185 - Exc 4S @ TPH GRO 12391	g	168	Date An Date Pre RL Result <50.0 Units mg/Kg Analyticz Date Ana Date Prep RL Result	alyzed: pared: E	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units	Spike Amount 150 Spike	1 Percer Recove 112 Pr A Pr Dilution 10 Per	Analyzed By: Prepared By: nt Rea rry L 64. rep Method: nalyzed By: repared By: repared By:	BP DS RL 50.0 covery imits 7 - 162 S 5035 MS
rep Batch: arameter DRO urrogate -Triacontan ample: 424 nalysis: C Batch:	10948 Flag e 85 - Exc 4S @ TPH GRO 12391 10942	g		Date An Date Pre- RL Result <50.0 Units mg/Kg Analyticz Date Ana Date Prep RL Result <1.00	alyzed: pared: lyzed: pared:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Spike Amount 150 Spike	1 Percer Recove 112 Pr A Pr Dilution 10 Per Reco	Analyzed By: Prepared By: nt Re rep Method: 64. rep Method: 1 repared By: 1 repared By: 1 cent Re overy L	BP DS RL 50.0 covery imits 7 - 162 S 5035 MS MS MS MS RL 0.100 covery

Sample: 42486 - Exc 3N @ 1.5'

⁴Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

Report Date: 1507-1.0	September 15, 200	4			er: 4083002 NCO		Page N	umber: 9 o Jal,	
Analysis:	Chloride (IC)		Analytic	al Method	l: E 300.0		Prep M	lethod: N	N//
QC Batch:	12420		Date An		2004-08-3	1	Analyz		M٧
Prep Batch:	10968		Date Pro	epared:	2004-08-3	1	Prepare	ed By: N	MV
			RL						_
Parameter	Flag	5	Result		Units		Dilution		R
Chloride	······		957		mg/Kg		100		1.0
Sample: 424	86 - Exc 3N @ 1.5	,							
Analysis:	pН		Analytical N	lethod: S	SM 4500-H+		Prep M		N//
QC Batch:	12428		Date Analyz		004-08-31		Analyz	-	٨N
Prep Batch:	10979		Date Prepare	ed: 2	004-08-31		Prepare	ed By: N	۸ı
n .			RL				D 11 - 1		-
Parameter	Fla	5	Result		Units		Dilution		$\frac{R}{\sqrt{2}}$
pH	·		8.81	<u> </u>	s.u.		1	0).(
QC Batch: Prep Batch:	12399 10948		Date Anal Date Prep RL		2004-08-31 2004-08-30		Analyz Prepare	ed By: B ed By: D	
Parameter	Flag	Ş	Result		Units		Dilution		R
DRO		· · · · · · · · · · · · · · · · · · ·	<50.0	· · · · · · · · · · · · · · · · · · ·	mg/Kg		1	5	50
						Spike	Percent	Recove	
Surrogate	Flag	Result	Units	Di	lution	Amount	Recovery	Limit	
n-Triacontan	e	168	mg/Kg		1	150	112	64.7 - 1	10
Sample: 424 Analysis: QC Batch: Prep Batch:	86 - Exc 3N @ 1.5' TPH GRO 12391 10942		Analytical Date Analy Date Prepa	zed:	S 8015B 2004-08-30 2004-08-30		Prep Met Analyzed Prepared	By: MS	5
Parameter	Flag		RL Result		Units	т	Dilution		R
GRO	riag		<1.00	·····	mg/Kg	1	10	0.1	
···· ·························					<u> </u>	Spike	Percent	Recov	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limi	its
Trifluorotolu			0.809	mg/Kg	10	0.100	81	70 - 1	
4-Bromofluor	robenzene (4-BFB)	<u>-</u>	0.899	mg/Kg	10	0.100	90	70 - 1	3
Sample: 474	87 - SB1 @ 10								

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Report Date 1507-1.0	e: September 15, 20		Wor	k Order: 4083002 RUNCO		Page Nu	mber: 10 o Jal	of 24 I,NM
QC Batch: Prep Batch:	12420 10968		Date Analyz Date Prepare				-	MW MW
			RL					
Parameter	Fla	ıg	Result	Units		Dilution		RL
Chloride		······································	1610	mg/Kg		100		1.00
Sample: 424	487 - SB1 @ 10							
Analysis:	pН		Analytical Metho	od: SM 4500-H+		Prep M	fethod: 1	N/A
QC Batch:	12428		Date Analyzed:	2004-08-31				MW
Prep Batch:	10979		Date Prepared:	2004-08-31		Prepar		MW
			RL					
Parameter	Fla	ıg	Result	Units		Dilution		RL
ьН			8.68	s.u.	<u> </u>	1		0.00
Analysis: QC Batch: Yrep Batch:	TPH DRO 12399 10948		Analytical Met Date Analyzed Date Prepared:	l: 2004-08-31	5		zed By: 1	N/A BP DS
arameter	Fla	~	RL Result	Units		Dilution		RL
DRO	Fla	<u> </u>	<50.0	mg/Kg		1		50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recov Limi	-
-Triacontane		165	mg/Kg	1	150	110	64.7 -	
-	87 - SB1 @ 10							
nalysis:	TPH GRO		Analytical Meth			Prep Met		
nalysis: C Batch:	TPH GRO 12391		Date Analyzed:	2004-08-30		Analyzed	By: MS	5
nalysis: C Batch:	TPH GRO						By: MS	5
Analysis: C Batch: rep Batch:	TPH GRO 12391 10942		Date Analyzed: Date Prepared: RL	2004-08-30 2004-08-30		Analyzed Prepared	By: MS By: MS	5
analysis: C Batch: rep Batch: arameter	TPH GRO 12391	3	Date Analyzed: Date Prepared: RL Result	2004-08-30 2004-08-30 Units		Analyzed Prepared Dilution	By: MS By: MS	RL
analysis: C Batch: rep Batch: arameter	TPH GRO 12391 10942	<u> </u>	Date Analyzed: Date Prepared: RL	2004-08-30 2004-08-30		Analyzed Prepared	By: MS By: MS	RL 100
analysis: C Batch: rep Batch: arameter RO	TPH GRO 12391 10942		Date Analyzed: Date Prepared: RL Result <1.00	2004-08-30 2004-08-30 Units mg/Kg	Spike	Analyzed Prepared Dilution 10 Percent	By: MS By: MS 0. Recov	RL 100 very
analysis: C Batch: rep Batch: arameter RO urrogate	TPH GRO 12391 10942 Flag	5 Flag	Date Analyzed: Date Prepared: RL Result <1.00 Result Un	2004-08-30 2004-08-30 <u>Units</u> mg/Kg nits Dilution	Spike Amount	Analyzed Prepared Dilution 10 Percent Recovery	By: MS By: MS 0. Recov Limi	RL 100 very its
analysis: C Batch: rep Batch: arameter RO urrogate rifluorotolue	TPH GRO 12391 10942 Flag	Flag	Date Analyzed: Date Prepared: RL Result <1.00 Result Un 0.604 mg	2004-08-30 2004-08-30 Units mg/Kg	Spike	Analyzed Prepared Dilution 10 Percent	By: MS By: MS 0. Recov	RL 100 very its 130

Sample: 42488 - SB1 @ 30

⁵Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

1507-1.0	: September 15,	, 2004				der: 4083002 UNCO	<u></u>	Pag	ge Number: 1	1 of 24 Jal,NM
Analysis:	Chloride (IC)			Analyt	ical Meth	od: E 300.0		Pi	rep Method:	N/A
QC Batch:	12420				nalyzed:	2004-08-3	1		nalyzed By:	MW
Prep Batch:	10968				repared:	2004-08-3	1	Pi	repared By:	MW
				RL						
Parameter		Flag		Result		Units		Dilution		RL
Chloride				107	<u></u> .	mg/Kg		5		1.00
Sample: 424	188 - SB1 @ 30									
Analysis:	pН			Analytical	Method:	SM 4500-H+		Pr	rep Method:	N/A
QC Batch:	12428			Date Analy		2004-08-31			nalyzed By:	М₩
Prep Batch:	10979			Date Prepar		2004-08-31		Pr	repared By:	MW
D		F1 .		RL		TT * 4 -		D:14!		٦Ŧ
Parameter pH		Flag		Result		Units		Dilution		RI 0.00
pm				8.44		s.u.		I		0.0
Analysis: QC Batch:	188 - SB1 @ 30 TPH DRO 12399			Date Ana		2004-08-31	1	A	rep Method: .nalyzed By:	BP
Analysis: QC Batch:	TPH DRO			Date Ana Date Prej	alyzed:			A		
Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948			Date Ana Date Prej RL	alyzed:	2004-08-31 2004-08-30		A Pr	nalyzed By:	BP DS
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948	Flag		Date Ana Date Prej	alyzed:	2004-08-31 2004-08-30 Units		A	nalyzed By:	BP DS RI
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948			Date Ana Date Prej RL Result	alyzed:	2004-08-31 2004-08-30		A Pr Dilution 1	nalyzed By: repared By:	BP DS RI 50.0
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 12399 10948		Result	Date Ana Date Prep RL Result <50.0	alyzed: pared:	2004-08-31 2004-08-30 Units mg/Kg	Spike	A Pr Dilution 1 Percent	nalyzed By: repared By: Rec	BP DS RI 50.0
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRO 12399 10948 Flag		Result 166	Date Ana Date Prej RL Result	alyzed: pared:	2004-08-31 2004-08-30 Units		A Pr Dilution 1	nalyzed By: repared By: Rec	BP DS RI 50.0 sovery mits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424	TPH DRO 12399 10948 Flag e 888 - SB1 @ 30			Date Ana Date Prep RL Result <50.0 Units mg/Kg	alyzed: pared: 	2004-08-31 2004-08-30 Units mg/Kg Dilution 1	Spike Amount	A Pr Dilution 1 Percent Recovery 110	nalyzed By: repared By: Rec Li 64.7	BP DS RI 50.0 wovery mits 7 - 162
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis:	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO			Date Ana Date Prep RL Result <50.0 Units mg/Kg	alyzed: pared: I Method:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1	Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep	nalyzed By: repared By: Rec Li 64.7	BP DS RL 50.0 covery mits 7 - 162
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO 12391			Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal	I Method:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30	Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep Anal	Rec Li 64.7 Method: S lyzed By: M	BP DS RI 50.0 mits 7 - 162 S 5032 MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO			Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytica Date Anal Date Prep	I Method:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1	Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep Anal	Rec Li 64.7 Method: S lyzed By: N	BP DS RI 50.0 covery mits 7 - 162
Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO 12391 10942			Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal	I Method:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30	Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep Anal	Rec Li 64.7 Method: S lyzed By: M	BP DS RI 50.0 mits 7 - 162 S 5035 MS MS MS
Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO 12391 10942	Flag		Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytica Date Anal Date Prep RL	I Method:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep Anal Prep	Rec Li 64.7 Method: S lyzed By: M	BP DS RL 50.0 covery mits 7 - 162 S 5035 MS MS MS MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO 12391 10942	Flag	166	Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytica Date Anal Date Prep RL Result	I Method:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units	Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep Anal Prep	nalyzed By: repared By: Rec Li 64.7 9 Method: S lyzed By: M pared By: M	BP DS RI 50.0 covery mits 7 - 162 S 5035 MS MS MS MS RI 0.100 covery
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: GRO	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO 12391 10942	Flag	166 Flag	Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytica Date Anal Date Prep RL Result <1.00	I Method: yzed: ared: Units	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Spike Amount 150 Spike Amount	A Pr Dilution 1 Percent Recovery 110 Prep Anal Prep Dilution 10 Percer Recove	nalyzed By: repared By: Rec Li 64.7 Method: S lyzed By: N bared By: N mared By: N	DS RL 50.0 covery mits 7 - 162 S 5035 MS MS MS MS MS MS MS MS MS MS MS MS
Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Triacontand Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotoluc	TPH DRO 12399 10948 Flag e 88 - SB1 @ 30 TPH GRO 12391 10942	Flag	166	Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytica Date Anal Date Prep RL Result <1.00	alyzed: pared: [] Method: lyzed: ared:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution 10	Spike Amount 150 Spike	A Pr Dilution 1 Percent Recovery 110 Prep Anal Prep Dilution 10 Percer	nalyzed By: repared By: Rec Li 64.7 9 Method: S lyzed By: N bared By: N nared By: N nared By: N	BP DS RL 50.0 covery mits 7 - 162 S 5035 MS MS MS MS RL 0.100 covery

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Sample: 42489 - SB2 @ 10

⁶Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

Report Date 1507-1.0	e: September	15, 2004				rder: 4083002 RUNCO		Page	e Number: 1	2 of 24 Jal,NM
Analysis:	Chloride (IC	7)		Analy	tical Meth	nod: E 300.0		Pr	ep Method:	N/A
QC Batch:	12422	-)			Analyzed:		1		nalyzed By:	MW
Prep Batch:	10969				Prepared:	2004-08-3			repared By:	MW
	10909			Date	riepareu.	2004-08-5	1	11	cparcu by.	141 44
Parameter		Flag		RL Result		Units		Dilution		рт
Chloride	<u>-</u>	Flag		<u>699</u>		mg/Kg		50		RL 1.00
				079		ng			<u></u>	1.00
Sample: 424	489 - SB2 @ 1	10								
Analysis:	рН			Analytical	Method:	SM 4500-H+		Pr	ep Method:	N/A
QC Batch:	12427			Date Anal	yzed:	2004-08-31		Aı	nalyzed By:	RS
Prep Batch:	10980			Date Prepa		2004-08-31		Pr	epared By:	MW
				RL						
Parameter		Flag		Result		Units		Dilution		RL
pH				8.14		s.u.		1		0.00
Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948			Analytic Date An Date Pre		1: Mod. 8015B 2004-08-31 2004-08-30	5	Aı	ep Method: nalyzed By: epared By:	N/A BP DS
rrep Batch:	10948			Date Pre	epared:	2004-08-30		PT	epared By:	D2
				RL						
Parameter		Flag		Result		Units		Dilution		RL
DRO			·····	<50.0	, .	mg/Kg		1		50.0
							Spike	Percent	Rec	overy
Surrogate	Fla	g	Result	Units	I	Dilution	Amount	Recovery		mits
n-Triacontan	e		168	mg/Kg		1	150	112	64.7	- 162
Sample: 424	89 - SB2 @ 1	0								
Analysis:	TPH GRO			Analytica	al Method:	S 8015B		Prep	Method: S	5035
QC Batch:	12391			Date Ana		2004-08-30			• •	ЛS
rep Batch:	10942			Date Prep	pared:	2004-08-30		Prepa	ared By: N	ЛS
la ma ma a ta a		Elec		RL Davit		T Inita		Dilution		RL
arameter RO		Flag		Result		Units mg/Kg		10		0.100
JKU	· · · · · · · · · · · · · · · · · · ·			<1.00		mg/Kg		10		
			F 1	De- 14	T I	D:1	Spike	Percen		overy
umo este			Flag	Result	Units	Dilution	Amount	Recover	ιy Li	mits
urrogate					- 17	10	0 100	07		120
rifluorotolue	ene (TFT) robenzene (4-1			0.830 0.929	mg/Kg mg/Kg		0.100 0.100	83 93	70	- 130 - 130

Sample: 42490 - SB2 @ 30

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

Report Date 1507-1.0	: September 15,	2004				der: 4083002 JNCO		f	Page Number	Jal,N
QC Batch: Prep Batch:	12422 10969			Date Ar Date Pr		2004-08-3 2004-08-3			Analyzed E Prepared B	
				RL					-	
Parameter Chloride		Flag		Result		Units		Dilution 5		R 1.0
				121		mg/Kg		J	<u></u>	1.0
Sample: 424	190 - SB2 @ 30									
Analysis:	pН			Analytical N	fethod:	SM 4500-H+			Prep Metho	d: N/A
QC Batch:	12427			Date Analyz		2004-08-31			Analyzed B	y: RS
Prep Batch:	10980			Date Prepare	ed:	2004-08-31			Prepared B	y: MV
D		T =1		RL		TTATA		Dilation		п
Parameter pH		Flag		Result 8.52		Units s.u.		Dilution 1		R 0.0
	190 - SB2 @ 30									
Analysis: QC Batch:	TPH DRO 12399			Analytica Date Anal Date Pren	lyzed:	2004-08-31			Prep Metho Analyzed B Prenared B	By: BP
Analysis:	TPH DRO			Date Anal Date Prep	lyzed:					By: BP
Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948			Date Anal Date Prep RL	lyzed:	2004-08-31 2004-08-30		Dilution	Analyzed E	By: BP y: DS
Analysis: QC Batch:	TPH DRO 12399 10948	Flag		Date Anal Date Prep	lyzed:	2004-08-31		Dilution 1	Analyzed E	By: BP y: DS R
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 12399 10948		Result	Date Anal Date Prep RL Result	lyzed: ared:	2004-08-31 2004-08-30 Units	Spike Amount	1 Percer	Analyzed B Prepared B	By: BP y: DS R 50.
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948 Flag		Result 157	Date Anal Date Prep RL Result <50.0	lyzed: ared:	2004-08-31 2004-08-30 Units mg/Kg	Spike	1	Analyzed E Prepared B nt I	By: BP y: DS R 50. Recover Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	TPH DRO 12399 10948 Flag			Date Anal Date Prep RL Result <50.0 Units	lyzed: ared: Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg	Spike Amount	1 Percer Recove 105 P	Analyzed E Prepared B nt I	By: BP y: DS <u>Recover</u> Limits 54.7 - 16
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 90 - SB2 @ 30 TPH GRO 12391 10942	Flag		Date Anal Date Prep RL Result <50.0 Units mg/Kg Analytical Date Analy Date Prepa RL	lyzed: ared: Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Spike Amount 150	1 Percer Recove 105 P A P	Analyzed E Prepared B nt I ry 6 rep Method: nalyzed By:	By: BP y: DS So. Recover Limits 4.7 - 16 S 503 MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 90 - SB2 @ 30 TPH GRO 12391 10942			Date Anal Date Prep RL Result <50.0 Units mg/Kg Analytical Date Analy Date Prepa RL Result	lyzed: ared: Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units	Spike Amount 150	1 Percer Recove 105 P A P	Analyzed E Prepared B nt I ry 6 rep Method: nalyzed By:	By: BP y: DS 50. Recover: Limits 4.7 - 16 S 503 MS MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 90 - SB2 @ 30 TPH GRO 12391 10942	Flag		Date Anal Date Prep RL Result <50.0 Units mg/Kg Analytical Date Analy Date Prepa RL	lyzed: ared: Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Spike Amount 150	1 Percer Recove 105 P A P Dilution	Analyzed B Prepared B nt I ry 6 rep Method: nalyzed By: repared By:	By: BP y: DS Recover Limits 4.7 - 16 S 503 MS MS MS R 0.10
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 90 - SB2 @ 30 TPH GRO 12391 10942	Flag	157	Date Anal Date Prep RL Result <50.0 Units mg/Kg Analytical Date Analy Date Prepa RL Result <1.00	lyzed: ared: E E E E 	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg	Spike Amount 150 Spike	1 Percer Recove 105 P A P Dilution 10 Per	Analyzed B Prepared B nt I rry 6 rep Method: nalyzed By: repared By: repared By:	By: BP y: DS Recover: Limits 4.7 - 16 S 503 MS MS MS R1 0.10 Recover
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 Flag e 90 - SB2 @ 30 TPH GRO 12391 10942	Flag		Date Anal Date Prep RL Result <50.0 Units mg/Kg Analytical Date Analy Date Prepa RL Result	lyzed: ared: Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Spike Amount 150	1 Percer Recove 105 Pr A Pr Dilution 10 Per Reco	Analyzed B Prepared B nt I rry 6 rep Method: nalyzed By: repared By: repared By:	By: BP y: DS Recover Limits 4.7 - 16 S 503 MS MS MS R 0.10

Sample: 42491 - SB3 @ 10

⁷Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

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Report Date 1507-1.0	: September	15, 2004				rder: 4083002 RUNCO		P	age Number:	14 of 24 Jal,NM
Analysis:	Chloride (IC	C)		Analy	tical Meth	nod: E 300.0			Prep Method	l: N/A
QC Batch:	12422				Analyzed:		31		Analyzed By	
Prep Batch:	10969				Prepared:	2004-08-3	31		Prepared By	
				RL						
Parameter		Flag		Result		Units		Dilution		RL
Chloride			- <u>-</u>	600		mg/Kg		100		1.00
Sample: 424	91 - SB3 @ 1	10								
Analysis:	pН			Analytical	Method:	SM 4500-H+			Prep Method	: N/A
QC Batch:	12427			Date Analy		2004-08-31			Analyzed By	
Prep Batch:	10980			Date Prepa	ired:	2004-08-31			Prepared By:	
				RL						
Parameter		Flag		Result		Units		Dilution		RL
pH				8.28		s.u.		1		0.00
Analysis: QC Batch: Prep Batch:	91 - SB3 @ 1 TPH DRO 12399 10948			Analytic Date An Date Pre	•	l: Mod. 8015E 2004-08-31 2004-08-30	3		Prep Method Analyzed By Prepared By:	r: BP
				RL						
Parameter		Flag		Result		Units		Dilution		RL
DRO				<50.0		mg/Kg			-t	50.0
	Fla		Result	T In:ta	T	Dilution	Spike	Percent		ecovery
Surrogate I-Triacontane	Flag	3	163	Units mg/Kg		Dilution 1	Amount 150	Recover 108		Limits .7 - 162
- macontant	·····		105	iiig/Kg		1	150	100		.7 - 102
Sample: 424	91 - SB3 @ 1	0								
Analysis:	TPH GRO			Analytica	ıl Method:	S 8015B		Pr	ep Method:	S 5035
QC Batch:	12391			Date Ana		2004-08-30			nalyzed By:	MS
rep Batch:	10942			Date Prep	ared:	2004-08-30		Pr	epared By:	MS
arameter		Floo		RL Bogult		Units		Dilution		זמ
GRO		Flag		Result <1.00		mg/Kg		Dilution 10		RL 0.100
					•••		Spike	Perc	ent R	ecovery
urrogate			Flag	Result	Units	Dilution	Amount			Limits
rifluorotolue	ne (TFT) obenzene (4-I			0.697	mg/Kg		0.100			0 - 130
				0.913	mg/Kg	; 10	0.100	91	. 7	0 - 130

Sample: 42492 - SB3 @ 30

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Analysis: Chloride (IC)

1507-1.0	: September 15, 2	2004				der: 4083002 JNCO		I	Page Number	Jal,N
QC Batch: Prep Batch:	12422 10969				nalyzed: repared:	2004-08-31 2004-08-31			Analyzed B Prepared By	
				RL						
Parameter	F	Flag		Result		Units		Dilution		R
Chloride				90.1		mg/Kg		5		1.0
Sample: 424	192 - SB3 @ 30									
Analysis:	pН			Analytical N	Method:	SM 4500-H+			Prep Method	1: N/A
QC Batch:	12427			Date Analy:		2004-08-31			Analyzed B	
	10980			Date Prepar	ed:	2004-08-31			Prepared By	: MV
				RL						
Parameter	I	Flag		Result		Units		Dilution		R
pH				8.73		s.u.	····	1		0.0
Analysis:	192 - SB3 @ 30 TPH DRO 12399			Analytica Date Ana	ıl Method: llyzed:	: Mod. 8015B 2004-08-31			Prep Metho Analyzed B	
Analysis: QC Batch:	TPH DRO			Date Ana Date Prep	lyzed:					y: BP
Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948	lag		Date Ana Date Prep RL	lyzed:	2004-08-31 2004-08-30		Dilution	Analyzed B	y: BP /: DS
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 12399 10948	lag		Date Ana Date Prep	lyzed:	2004-08-31		Dilution 1	Analyzed B	y: BP /: DS R
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 12399 10948		Result	Date Ana Date Prep RL Result	lyzed: pared:	2004-08-31 2004-08-30 Units mg/Kg	Spike Amount		Analyzed B Prepared By nt R	y: BP /: DS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRO 12399 10948 F Flag		Result 167	Date Ana Date Prep RL Result <50.0	lyzed: pared:	2004-08-31 2004-08-30 Units mg/Kg		1 Percer	Analyzed B Prepared By nt R	y: BP y: DS R 50. Limits
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch:	TPH DRO 12399 10948 F Flag			Date Ana Date Prep RL Result <50.0 Units	lyzed: pared: D Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution	Amount	1 Percer Recove 111 P A	Analyzed B Prepared By nt R	y: BP r: DS RI 50. Lecovery Limits 4.7 - 16
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch:	TPH DRO 12399 10948 F Flag e 92 - SB3 @ 30 TPH GRO 12391 10942	I		Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal Date Prepa RL	lyzed: pared: D Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Amount 150	1 Percer Recove 111 P A P	Analyzed B Prepared By nt R ry 64 rep Method: nalyzed By:	y: BP r: DS r: DS 50. tecovery Limits 4.7 - 16 S 503. MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 F Flag e 92 - SB3 @ 30 TPH GRO 12391 10942			Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal Date Prepa RL Result	lyzed: pared: D Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30	Amount 150	1 Percer Recove 111 P A P	Analyzed B Prepared By nt R ry 64 rep Method: nalyzed By:	y: BP 7: DS 50. tecover: Limits 4.7 - 16 S 503 MS MS MS
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 F Flag e 92 - SB3 @ 30 TPH GRO 12391 10942	I		Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal Date Prepa RL	lyzed: pared: D Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30	Amount 150	1 Percer Recove 111 P A P Dilution 10	Analyzed B Prepared By nt R ry 64 rep Method: nalyzed By: repared By:	y: BP 7: DS 50. 2000 2000 2000 2000 2000 2000 2000
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	TPH DRO 12399 10948 F Flag e 92 - SB3 @ 30 TPH GRO 12391 10942	I	167	Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal Date Prepa RL Result <1.00	Method: yzed: ared:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg	Amount 150 Spike	1 Percer Recove 111 P A P Dilution 10 Per	Analyzed B Prepared By nt R ry 64 rep Method: repared By: repared By: repared By:	y: BP 7: DS 8: 50. 1: 50. 50. 1: 50. 1: 50. 50. 1: 50. 50. 1: 50. 50. 1: 50. 50. 50. 50. 50. 50. 50. 50. 50. 50.
Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	TPH DRO 12399 10948 F Flag e 92 - SB3 @ 30 TPH GRO 12391 10942 F	I		Date Ana Date Prep RL Result <50.0 Units mg/Kg Analytical Date Anal Date Prepa RL Result	lyzed: pared: D Method: yzed:	2004-08-31 2004-08-30 Units mg/Kg Dilution 1 S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg Dilution	Amount 150	1 Percer Recove 111 P A P A P Dilution 10 Per Rec	Analyzed B Prepared By nt R ry 64 rep Method: nalyzed By: repared By: repared By: repared F	y: BP 7: DS 50. 4.7 - 16 50. 4.7 - 16 50. 503. MS MS MS MS MS

Sample: 42493 - SB4 @ 9-10

⁸Low TFT surrogate recovery due to matrix interference. BFB surrogate recovery shows the method to be in control.

Report Date 1507-1.0	e: September 15, 2	2004			rder: 4083002 UNCO		P:	age Number: 1	6 of 24 Jal,NM
Analysis: QC Batch: Prep Batch:	Chloride (IC) 12422 10969		Date A	cal Meth nalyzed: repared:	od: E 300.0 2004-08-3 2004-08-3			Prep Method: Analyzed By: Prepared By:	N/A MW MW
			RL						
Parameter	F	Flag	Result		Units		Dilution		RL
Chloride			29.6		mg/Kg	· · · · · · · · · · · · · · · · · · ·	5		1.00
Sample: 424	493 - SB4 @ 9-10)							
Analysis:	pН		Analytical N	Aethod:	SM 4500-H+			Prep Method:	N/A
QC Batch:	12427		Date Analyz		2004-08-31			Analyzed By:	RS
rep Batch:	10980		Date Prepar	ed:	2004-08-31			Prepared By:	MW
			RL						
Parameter	F	Flag	Result		Units		Dilution		RL
H	<u></u>		8.59		<u>s.u.</u>		1		0.00
C Batch: rep Batch:	12399 10948		Date Ana Date Prep	•	2004-08-31 2004-08-30			Analyzed By: Prepared By:	BP DS
arameter	F	lag	RL Result		Units		Dilution		RL
DRO	I `!	lag	<50.0		mg/Kg		1		50.0
						Spike	Percent		covery
urrogate	Flag	Result	Units	T	Dilution	Amount	Recover		imits
	Flag	Result 157	Units mg/Kg	Ι	Dilution 1	Amount 150	Recover 105	,	
-Triacontan		157		<u> </u>				,	
-	ie 193 - SB4 @ 9-10	157	mg/Kg		1		105	64.5	7 - 162
-Triacontan ample: 424 nalysis:	e	157	mg/Kg Analytical	Method:	1 S 8015B		105 Pre	64.5	7 - 162
-Triacontan	ie 193 - SB4 @ 9-10 TPH GRO	157	mg/Kg	Method: /zed:	1		105 Pre An	64.7 ep Method: S alyzed By: 1	7 - 162 5 5035
-Triacontan ample: 424 nalysis: C Batch:	193 - SB4 @ 9-10 TPH GRO 12391	157	mg/Kg Analytical Date Analy	Method: /zed:	1 S 8015B 2004-08-30		105 Pre An	64.7 ep Method: S alyzed By: 1	7 - 162 5 5035 MS
-Triacontan ample: 424 nalysis: C Batch: rep Batch: arameter	193 - SB4 @ 9-10 TPH GRO 12391 10942	157	mg/Kg Analytical Date Analy Date Prepa RL Result	Method: /zed:	1 S 8015B 2004-08-30	150	105 Pre An	64.7 ep Method: S alyzed By: 1	7 - 162 S 5035 MS MS MS RL
-Triacontan ample: 424 nalysis: C Batch: rep Batch: arameter	193 - SB4 @ 9-10 TPH GRO 12391 10942	157	mg/Kg Analytical Date Analy Date Prepa RL	Method: /zed:	1 S 8015B 2004-08-30 2004-08-30	150	105 Pre An Pre	64.7 ep Method: S alyzed By: 1	7 - 162 S 5035 MS MS MS RL
ample: 424 nalysis: C Batch: rep Batch: arameter RO	193 - SB4 @ 9-10 TPH GRO 12391 10942	157 ag	mg/Kg Analytical Date Analy Date Prepa RL Result <1.00	Method: /zed: red:	1 S 8015B 2004-08-30 2004-08-30 Units mg/Kg	150 Spike	105 Pre An Pre Dilution 10 Perc	64.7 ep Method: S halyzed By: P epared By: P ent Rec	7 - 162 5 5035 MS MS MS RL 0.100 covery
-Triacontan ample: 424 nalysis: C Batch: rep Batch: arameter RO urrogate	ie 193 - SB4 @ 9-10 TPH GRO 12391 10942 Fl	157	mg/Kg Analytical Date Analy Date Prepa RL Result <1.00 Result	Method: /zed: red: Units	1 \$ 8015B 2004-08-30 2004-08-30 Units mg/Kg Dilution	150 Spike Amount	105 Pre An Pre Dilution 10 Perc Reco	64.7 ep Method: S halyzed By: P epared By: P ent Rec very L	7 - 162 S 5035 MS MS RL 0.100 covery imits
ample: 424 nalysis: C Batch: rep Batch: arameter RO urrogate rifluorotolue	ie 193 - SB4 @ 9-10 TPH GRO 12391 10942 Fl	ag Flag	mg/Kg Analytical Date Analy Date Prepa RL Result <1.00	Method: /zed: red:	1 \$ 8015B 2004-08-30 2004-08-30 Units mg/Kg Dilution 10	150 Spike	105 Pre An Pre Dilution 10 Perc	64.7 ep Method: S lalyzed By: P epared By: P ent Rec very L 5 70	7 - 162 5 5035 MS MS MS RL 0.100 covery

Sample: 42494 - SB4 @ 30-32

Analysis: Chloride (IC)

1507-1.0	: September 1	15, 2004			rder: 4083002 RUNCO		Pag	ge Number: 1	7 of 2 Jal,NI
QC Batch: Prep Batch:	12422 10969			Date Analyzed: Date Prepared:	2004-08-3 2004-08-3			Analyzed By: Prepared By:	MV MV
riep Dateii.	10909			Date Flepareu.	2004-08-3	1	1	Tepareu Dy.	101 0
				RL					
Parameter		Flag	······	Result	Units		Dilution		RI
Chloride		<u>.</u>	· · · · · · · · · · · · · · · · · · ·	275	mg/Kg		50		1.0
Sample: 424	194 - SB4 @ 3	30-32							
Analysis:	рH			Analytical Method:	SM 4500-H+		Р	rep Method:	N/A
QC Batch:	12427			Date Analyzed:	2004-08-31		А	nalyzed By:	RS
Prep Batch:	10980			Date Prepared:	2004-08-31			repared By:	MV
_				RL					_
Parameter		Flag		Result	Units		Dilution		R
pH	- <u></u>			8.43	s.u		1		0.0
OC Batah	1.1.200				2004-08-31			noluzod kim	מם
	12399 10948			Date Analyzed: Date Prepared:	2004-08-30			Analyzed By: repared By:	
QC Batch: Prep Batch:				Date Prepared: RL	2004-08-30		Р		DS
Prep Batch: Parameter		Flag		Date Prepared: RL Result	2004-08-30 Units		P Dilution		DS R
Prep Batch: Parameter		Flag		Date Prepared: RL	2004-08-30		P Dilution 1	repared By:	DS R 50.
Prep Batch: Parameter DRO	10948	<u></u>	Recult	Date Prepared: RL Result <50.0	2004-08-30 Units mg/Kg	Spike	P Dilution 1 Percent	Prepared By:	DS R 50.
Prep Batch: Parameter DRO	10948	<u></u>	Result	Date Prepared: RL Result <50.0	2004-08-30 Units	Spike Amount	P Dilution 1	Prepared By:	DS R 50 cover
	10948 Fla	<u></u>	Result 163	Date Prepared: RL Result <50.0	2004-08-30 Units mg/Kg		P Dilution 1 Percent	Prepared By: Rec	DS R 50. cover
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424	10948 Fla e 194 - SB4 @ 3	eg		Date Prepared: RL Result <50.0 Units mg/Kg	2004-08-30 Units mg/Kg Dilution 1	Amount	P Dilution 1 Percent Recovery 109	Rec	DS R 50. cover imits 7 - 16
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis:	10948 Fla e 194 - SB4 @ 3 TPH GRO	eg		Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method	2004-08-30 <u>Units</u> mg/Kg Dilution 1 : S 8015B	Amount	P Dilution 1 Percent Recovery 109 Prep	Rea Li 64.7	DS R) 50. 50. mits 7 - 16 5 503
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch:	10948 Fla e 194 - SB4 @ 3 TPH GRO 12391	eg		Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed:	2004-08-30 Units mg/Kg Dilution 1 : S 8015B 2004-08-30	Amount	P Dilution 1 Percent Recovery 109 Prep Ana	Rec Li 64.7	DS <u>R</u> 50. cover: imits 7 - 16 5 503 MS
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch:	10948 Fla e 194 - SB4 @ 3 TPH GRO	eg		Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed: Date Prepared:	2004-08-30 <u>Units</u> mg/Kg Dilution 1 : S 8015B	Amount	P Dilution 1 Percent Recovery 109 Prep Ana	Rec Li 64.7	DS <u>R</u> 50. 50. mits 7 - 16 5 503
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424	10948 Fla e 194 - SB4 @ 3 TPH GRO 12391	9g 30-32		Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed:	2004-08-30 Units mg/Kg Dilution 1 : S 8015B 2004-08-30	Amount	P Dilution 1 Percent Recovery 109 Prep Ana	Rec Li 64.7	DS R 50. covery mits 7 - 16 S 503 MS MS
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	10948 Fla e 194 - SB4 @ 3 TPH GRO 12391	eg		Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed: Date Prepared: RL	2004-08-30 Units mg/Kg Dilution 1 : S 8015B 2004-08-30 2004-08-30	Amount	P Dilution 1 Percent Recovery 109 Prep Ana Prep	Rec Li 64.7	DS R 50. covery mits 7 - 16 S 503 MS MS MS R
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO	10948 Fla e 194 - SB4 @ 3 TPH GRO 12391	9g 30-32	163	Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed: Date Prepared: RL Result <1.00	2004-08-30 Units mg/Kg Dilution 1 : S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg	Amount 150 Spike	P Dilution 1 Percent Recovery 109 Prep Ana Prep Dilution 10 Perce	Rec Li 64.7 o Method: S alyzed By: I pared By: I	DS R 50. covery mits 7 - 16 S 503 MS MS MS MS 0.10 covery
Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	10948 Fla e 194 - SB4 @ 3 TPH GRO 12391 10942	9g 30-32		Date Prepared: RL Result <50.0 Units mg/Kg Analytical Method Date Analyzed: Date Prepared: RL Result	2004-08-30 Units mg/Kg Dilution 1 : S 8015B 2004-08-30 2004-08-30 2004-08-30 Units mg/Kg s Dilution	Amount 150 Spike	P Dilution 1 Percent Recovery 109 Prep Ana Prep Dilution 10 Perce	Rec Li 64. 9 Method: S alyzed By: 1 bared By: 1 bared By: 1 cant Rec ery L	7 - 16 5 503 MS

Method Blank (1) QC Batch: 12391

Report Date: Septer 1507-1.0	mber 15, 2004		Work Order: 40 RUNCO			Page Nu	mber: 18 of 2 Jal,NN
Parameter	Flag		Result		Un		RI
GRO		·	1.68		mg/	Kg	0.1
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recover: Limits
Trifluorotoluene (TF	FT)	0.936	mg/Kg	10	0.100	94	70 - 130
4-Bromofluorobenze	ene (4-BFB)	0.802	mg/Kg	10	0.100	80	70 - 130
Method Blank (1)	QC Batch: 12399						
Parameter	Flag		Result		Uni		RI
DRO	· · · · · · · · · · · · · · · · · · ·		<50.0		mg/l	Kg	50
Surrogate	Flag Result	Units	Dilutior	n	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	174	mg/Kg	1	*	150	116	64.7 - 162
Parameter	QC Batch: 12420 Flag		Result 12.1		Uni mg/J		RI 1
Parameter					Uni mg/I		
Parameter Chloride							
Matrix Blank (1) Parameter Chloride Matrix Blank (1) Parameter	Flag		12.1 Result		mg/I Uni	Kg ts	1 RL
Parameter Chloride Matrix Blank (1) Parameter	Flag QC Batch: 12422		12.1		mg/I	Kg ts	1
Parameter Chloride Matrix Blank (1) Parameter Chloride	Flag QC Batch: 12422		12.1 Result		mg/I Uni	Kg ts	1 RI
Parameter Chloride Matrix Blank (1) Parameter Chloride	Flag QC Batch: 12422 Flag	Sample Result	12.1 Result		mg/I Uni	Kg ts	l RI I RPD
Parameter Chloride Matrix Blank (1) Parameter Chloride Duplicate (1) QC	Flag QC Batch: 12422 Flag C Batch: 12427 Duplicate		12.1 Result 12.1	<u>s</u>	mg/I Uni mg/I	Kg ts Kg	I RI I RPD
Parameter Chloride Matrix Blank (1) Parameter Chloride Duplicate (1) QC Param	Flag QC Batch: 12422 Flag C Batch: 12427 Duplicate Result	Result	12.1 Result 12.1 Unit	<u></u>	mg/l Uni mg/l	Kg ts Kg RPD	I RI I RPD Limi
Parameter Chloride Matrix Blank (1) Parameter Chloride Duplicate (1) QC Param	Flag QC Batch: 12422 Flag C Batch: 12427 Duplicate Result 8.40	Result	12.1 Result 12.1 Unit		mg/l Uni mg/l	Kg ts Kg RPD	I RL I RPD Limit

Laboratory Control Spike (LCS-1) QC Batch: 12391

ion: 12391

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	LCS	LCSD			Spike	Matrix			Rec.	RPI
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limi
GRO	10.2	10.4	mg/Kg	10	1.00	<0.381	102	2	70 - 130	20
Percent reco	very is based on	the spike re	sult. RPD is	based on th	ne spike and	spike duplic	ate resul	t.		
			LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate			Result	Result	Units	Dil.	Amoun	t Rec.	Rec.	Limit
Trifluorotolu			1.02	0.999	mg/Kg	10	0.100	102	100	70 - 13
4-Bromofluc	probenzene (4-B	FB)	0.997	0.987	mg/Kg	10	0.100	100	99	70 - 13
Laboratory	v Control Spike	(LCS-1)	QC Batch:	12399						
	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limi
DRO	271	274	mg/Kg	1	250	<12.0	108	1	64.2 - 138	20
Percent reco	very is based on	the spike re	sult. RPD is	based on th	e spike and	spike duplic	ate result	t.		
		LCS	LCSD			Spike	e	LCS	LCSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amou		Rec.	Rec.	Limit
n-Triacontan	e	164	162	mg/Kg	1	150		109	108	64.7 - 162
Laboratory	Control Spike		QC Batch:		I	130		107	100	04.7 - 10.
Param	v Control Spike LCS Result	(LCS-1) LCSD Result	QC Batch: Units	12420 Dil.	Spike Amount	Matrix Result	Rec	. RPD	Rec. Limit	RPI Limi
Param Chloride	Control Spike LCS	(LCS-1) LCSD Result 23.9	QC Batch: Units mg/Kg	12420 Dil. 1	Spike Amount 12.5	Matrix Result 12.1	97	. RPD 1	Rec.	RPI
Param Chloride Percent reco Laboratory Param	r Control Spi ke LCS Result 24.2	(LCS-1) LCSD Result 23.9 the spike res	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units	12420 Dil. 1 based on th	Spike Amount 12.5	Matrix Result 12.1	97	. RPD 1	Rec. Limit 90 - 110 Rec.	RPD Limi 20 RPD
Param Chloride Percent reco Laboratory Param Chloride	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg	12420 Dil. 1 based on th 12422 Dil.	Spike Amount 12.5 te spike and s Spike Amount 12.5	Matrix Result 12.1 spike duplic Matrix Result 12.1	97 ate result Rec. 95	RPD 1	Rec. Limit 90 - 110 Rec. Limit	RPL Limi 20 RPL Limi
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on very is based on the (MS-1) Qe MS	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391	12420 Dil. 1 based on th 12422 Dil. . 1 based on th	Spike Amount 12.5 te spike and s Spike Amount 12.5 te spike and s Spike	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix	97 ate result <u>Rec</u> 95 ate result	RPD 1	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec.	RPE Limi 20 RPE Limi 20 RPE
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik Param	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on very is based on the (MS-1) Qe MS Result	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD Result	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391 Units	12420 Dil. 1 based on th 12422 Dil. . 1 based on th Dil.	Spike Amount 12.5 The spike and s Spike Amount 12.5 The spike and s Spike Amount	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix Result	97 ate result Rec. 95 ate result Rec.	RPD 0	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec. Limit	RPD Limi 20 RPD Limi 20 RPD Limi
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik Param	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on very is based on the (MS-1) Qe MS	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391	12420 Dil. 1 based on th 12422 Dil. . 1 based on th	Spike Amount 12.5 te spike and s Spike Amount 12.5 te spike and s Spike	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix	97 ate result <u>Rec</u> 95 ate result	RPD 1	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec.	RPI Limi 20 RPI Limi 20 RPI Limi
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik Param GRO	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on very is based on the (MS-1) Qe MS Result	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD Result 7.33	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391 Units mg/Kg	12420 Dil. 1 based on th 12422 Dil. - 1 based on th Dil. 10	Spike Amount 12.5 he spike and s Spike Amount 12.5 he spike and s Spike Amount 1.00	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix Result <0.381	97 ate result Rec. 95 ate result Rec. 70	RPD 1 RPD 0	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec. Limit	RPI Limi 20 RPI Limi 20 RPI Limi
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik Param GRO Percent reco	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on very is based on the (MS-1) Que MS Result 6.96	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD Result 7.33	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391 Units mg/Kg sult. RPD is MS	12420 Dil. 1 based on th 12422 Dil. 1 based on th Dil. 10 based on th MSD	Spike Amount 12.5 The spike and s Spike Amount 12.5 The spike and s Spike Amount 1.00 The spike and s	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix Result <0.381 spike duplic	97 ate result Rec. 95 ate result Rec. 70 ate result Spike	RPD 1 RPD 0	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec. Limit 70 - 130 MSD	RPL Limi 20 RPL Limi 20 RPL Limi 20 Rec.
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik Param GRO Percent reco Surrogate	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on the (MS-1) Que MS Result 6.96 very is based on	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD Result 7.33	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391 Units mg/Kg sult. RPD is MS Result	12420 Dil. 1 based on th 12422 Dil. 12422 Dil. 10 based on th MSD Result	Spike Amount 12.5 The spike and s Spike Amount 12.5 The spike and s Spike Amount 1.00 The spike and s Units	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix Result <0.381 spike duplic Dil.	97 ate result Rec. 95 ate result Rec. 70 ate result Spike Amoun	RPD 1 . RPD 0	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec. Limit 70 - 130 MSD Rec.	RPI Limi 20 RPI Limi 20 RPI Limi 20 Rec. Limit
Param Chloride Percent reco Laboratory Param Chloride Percent reco Matrix Spik Param GRO Percent reco Surrogate Trifluorotolu	v Control Spike LCS Result 24.2 very is based on v Control Spike LCS Result 24.0 very is based on the (MS-1) Que MS Result 6.96 very is based on	(LCS-1) LCSD Result 23.9 the spike res (LCS-1) LCSD Result 24.1 the spike res C Batch: 123 MSD Result 7.33 the spike res	QC Batch: Units mg/Kg sult. RPD is QC Batch: Units mg/Kg sult. RPD is 391 Units mg/Kg sult. RPD is MS	12420 Dil. 1 based on th 12422 Dil. 1 based on th Dil. 10 based on th MSD	Spike Amount 12.5 The spike and s Spike Amount 12.5 The spike and s Spike Amount 1.00 The spike and s	Matrix Result 12.1 spike duplic Matrix Result 12.1 spike duplic Matrix Result <0.381 spike duplic	97 ate result Rec. 95 ate result Rec. 70 ate result Spike	RPD 1 RPD 0	Rec. Limit 90 - 110 Rec. Limit 90 - 110 Rec. Limit 70 - 130 MSD	RPI Limi 20 RPI Limi 20 RPI Limi 20 Rec.

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_	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limi
ORO	255	258	mg/Kg	1	250	<12.0	102	1	62.4 - 128	20
Percent rec	overy is based or	the spike re	sult. RPD is t	based on th	ne spike and s	spike duplic:	ate resul	t.		
		MS	MSD			Spik	e	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amou		Rec.	Rec.	Limit
n-Triaconta	ane	159	162	mg/Kg	1	150		106	108	64.7 - 162
Matrix Spi		C Batch: 12	420						_	
)	MS	MSD Data k	TT	D .1	Spike	Matrix	n	0.00	Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.		Limit	Limit
Chloride	170	169	mg/Kg	5	12.5	107	101	0	69.4 - 118	20
latrix Spi		C Batch: 124	122		Q., 11-4	Matrice			Dee	סמת
aram	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
aram hloride	MS Result 858	MSD Result 867	Units mg/Kg	50	Amount 12.5	Result 275	93	1		
erarm Chloride ercent reco	MS Result 858 overy is based on	MSD Result 867	Units mg/Kg sult. RPD is b	50 ased on th	Amount 12.5 e spike and s	Result 275 pike duplica	93 ate result	1	Limit 69.4 - 118	Limi
erarm Chloride ercent reco	MS Result 858 overy is based on	MSD Result 867 the spike res	Units mg/Kg sult. RPD is b CCVs	50 ased on th	Amount 12.5 e spike and s CCVs	Result 275 pike duplica CCVs	93 ite result	1 Percent	Limit 69.4 - 118	Limit
aram Chloride ercent reco	MS Result 858 overy is based on ICV-1) QC B	MSD Result 867 the spike res	Units mg/Kg sult. RPD is b	50 ased on th	Amount 12.5 e spike and s	Result 275 pike duplica	93 ite result	1	Limit 69.4 - 118	Limit 20
aram Chloride Percent reco Standard (1 Param	MS Result 858 overy is based on	MSD Result 867 the spike res atch: 12391	Units mg/Kg sult. RPD is b CCVs True	50 ased on th	Amount 12.5 e spike and s CCVs Found	Result 275 pike duplica CCVs Percen	93 ite result	1 Percent Recover	Limit 69.4 - 118	Limir 20 Date Analyzed
aram Chloride	MS Result 858 overy is based on ICV-1) QC B Flag	MSD Result 867 the spike res atch: 12391 Units	Units mg/Kg sult. RPD is b CCVs True Conc. 1.00	50 ased on th	Amount 12.5 e spike and s CCVs Found Conc. 0.994 CCVs	Result 275 pike duplica CCVs Percen Recove 99	93 tte result t t ry	1 Percent Recover Limits 85 - 115 Percent	Limit 69.4 - 118	Limit 20 Date Analyzed 004-08-30
aram Chloride Percent reco tandard (1 aram iRO tandard (4	MS Result 858 overy is based on ICV-1) QC B Flag CCV-1) QC B	MSD Result 867 the spike res atch: 12391 Units mg/L	Units mg/Kg sult. RPD is b CCVs True Conc. 1.00 CCVs True	50 ased on th	Amount 12.5 e spike and s CCVs Found Conc. 0.994 CCVs Found	Result 275 pike duplica CCVs Percen Recove 99 CCVs Percen	93 tte result t t ty	1 Percent Recover Limits 85 - 115 Percent Recover	Limit 69.4 - 118 y	Limit 20 Date Analyzed 004-08-30 Date
aram hloride ercent reco tandard (1 aram RO tandard (1 aram	MS Result 858 overy is based on ICV-1) QC B Flag	MSD Result 867 the spike res atch: 12391 Units mg/L Batch: 12391	Units mg/Kg sult. RPD is b CCVs True Conc. 1.00	50 ased on th	Amount 12.5 e spike and s CCVs Found Conc. 0.994 CCVs	Result 275 pike duplica CCVs Percen Recove 99	93 tte result t t ty	1 Percent Recover Limits 85 - 115 Percent	Limit 69.4 - 118 y	Limir 20 Date Analyzed 004-08-30 Date Analyzed
Param Chloride Percent reco Standard (1 Standard (1 St	MS Result 858 overy is based on ICV-1) QC B Flag CCV-1) QC B Flag	MSD Result 867 the spike res atch: 12391 Units mg/L Batch: 12391 Units	Units mg/Kg sult. RPD is b CCVs True Conc. 1.00 CCVs True Conc. 1.00	50 ased on th	Amount 12.5 e spike and s CCVs Found Conc. 0.994 CCVs Found Conc. 0.974 CCVs	Result 275 pike duplica CCVs Percen Recover 99 CCVs Percen Recover 97	93 tte result t ry t	1 Percent Recover Limits 85 - 115 Percent Recover Limits 85 - 115	Limit 69.4 - 118 y 2	Limit 20 Date Analyzed 004-08-30 Date Analyzed 004-08-30
aram chloride ercent reco tandard (aram tandard (aram RO	MS Result 858 overy is based on ICV-1) QC B Flag CCV-1) QC B Flag	MSD Result 867 the spike res atch: 12391 Units mg/L Batch: 12391 Units mg/L	Units mg/Kg sult. RPD is b CCVs True Conc. 1.00 CCVs True Conc. 1.00	50 ased on th	Amount 12.5 e spike and s CCVs Found Conc. 0.994 CCVs Found Corc. 0.994	Result 275 pike duplica CCVs Percen Recove 99 CCVs Percen Recove 97	93 tte result t Ty t	1 Percent Recover Limits 85 - 115 Percent Recover Limits 85 - 115	Limit 69.4 - 118 y 2	Limir 20 Date Analyzed 004-08-30 Date Analyzed

Standard (ICV-1) QC Batch: 12399

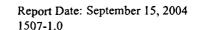
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			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	273	109	64.2 - 138	2004-08-3
Standard (4	CCV-1) QC	C Batch: 12399					
			CCVs	CCVs	CCVs	Percent	_
_			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	304	122	64.2 - 138	2004-08-3
Standard (CCV-2) QC	Batch: 12399					
-	-		CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO	1 lag	mg/Kg	250	269	108	64.2 - 138	2004-08-3
Standard ()	ICV-1) QC	Batch: 12420					
Param	ICV-1) QC Flag	Batch: 12420 Units mg/Kg	CCVs True Conc. 12.5	CCVs Found Conc. 11.8	CCVs Percent Recovery 94	Percent Recovery Limits 90 - 110	Date Analyzed 2004-08-3
Standard () Param Chloride Standard ((Flag	Units	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
Param Chloride	Flag	Units mg/Kg	True Conc.	Found Conc.	Percent Recovery	Recovery Limits 90 - 110 Percent	Analyzed
Param Chloride Standard ((Flag CCV-1) QC	Units mg/Kg	True Conc. 12.5	Found Conc. 11.8	Percent Recovery 94	Recovery Limits 90 - 110 Percent Recovery	Analyzed 2004-08-3 Date
Param Chloride Standard ((Param	Flag	Units mg/Kg Batch: 12420 Units	True Conc. 12.5 CCVs True Conc.	Found Conc. 11.8 CCVs Found Conc.	Percent Recovery 94 CCVs Percent Recovery	Recovery Limits 90 - 110 Percent Recovery Limits	Analyzed 2004-08-3 Date Analyzed
Param Chloride	Flag CCV-1) QC	Units mg/Kg Batch: 12420	True Conc. 12.5 CCVs True	Found Conc. 11.8 CCVs Found	Percent Recovery 94 CCVs Percent	Recovery Limits 90 - 110 Percent Recovery	Analyzed 2004-08-3 Date Analyzed
Param Chloride Standard (Param Chloride	Flag CCV-1) QC Flag	Units mg/Kg Batch: 12420 Units	True Conc. 12.5 CCVs True Conc.	Found Conc. 11.8 CCVs Found Conc.	Percent Recovery 94 CCVs Percent Recovery	Recovery Limits 90 - 110 Percent Recovery Limits	Analyzed 2004-08-3 Date Analyzed
Param Chloride Standard (Param	Flag CCV-1) QC Flag	Units mg/Kg 2 Batch: 12420 Units mg/Kg	True Conc. 12.5 CCVs True Conc. 12.5	Found Conc. 11.8 CCVs Found Conc. 12.0	Percent Recovery 94 CCVs Percent Recovery 96 CCVs	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent	Analyzed 2004-08-3 Date Analyzed 2004-08-3
Param Chloride Standard (Param Chloride Standard ()	Flag CCV-1) QC Flag ICV-1) QC	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery	Analyzed 2004-08-3 Date Analyzed 2004-08-3
Param Chloride Standard (Param Chloride Standard (1 Param	Flag CCV-1) QC Flag	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422 Units	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True Conc.	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found Conc.	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent Recovery	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery Limits	Analyzed 2004-08-3 Date Analyzed 2004-08-3 Date Analyzed
Param Chloride Standard (Param Chloride Standard (1 Param	Flag CCV-1) QC Flag ICV-1) QC	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery	Analyzed 2004-08-3 Date Analyzed 2004-08-3 Date Analyzed
Param Chloride Standard (Param Chloride Standard ()	Flag CCV-1) QC Flag ICV-1) QC Flag	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422 Units	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True Conc.	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found Conc.	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent Recovery	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery Limits	Analyzed 2004-08-3 Date Analyzed 2004-08-3 Date Analyzed
Param Chloride Standard (Param Chloride Standard (Param Chloride	Flag CCV-1) QC Flag ICV-1) QC Flag	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422 Units mg/Kg	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True Conc. 12.5	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found Conc. 11.8	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent Recovery 94	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110	Analyzed 2004-08-3 Date Analyzed 2004-08-3 Date Analyzed 2004-08-3
Param Chloride Standard (4 Param Chloride Standard (4 Standard (4	Flag CCV-1) QC Flag ICV-1) QC Flag CCV-1) QC	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422 Units mg/Kg	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True Conc. 12.5	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found Conc. 11.8 CCVs Found	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent Recovery 94 CCVs Percent	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110	Analyzed 2004-08-3 Date Analyzed 2004-08-3 Date Analyzed 2004-08-3
Param Chloride Standard (Param Chloride Standard (Param Chloride	Flag CCV-1) QC Flag ICV-1) QC Flag	Units mg/Kg Batch: 12420 Units mg/Kg Batch: 12422 Units mg/Kg	True Conc. 12.5 CCVs True Conc. 12.5 CCVs True Conc. 12.5	Found Conc. 11.8 CCVs Found Conc. 12.0 CCVs Found Conc. 11.8	Percent Recovery 94 CCVs Percent Recovery 96 CCVs Percent Recovery 94	Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110 Percent Recovery Limits 90 - 110	Analyzed 2004-08-3 Date Analyzed 2004-08-3 Date Analyzed 2004-08-3

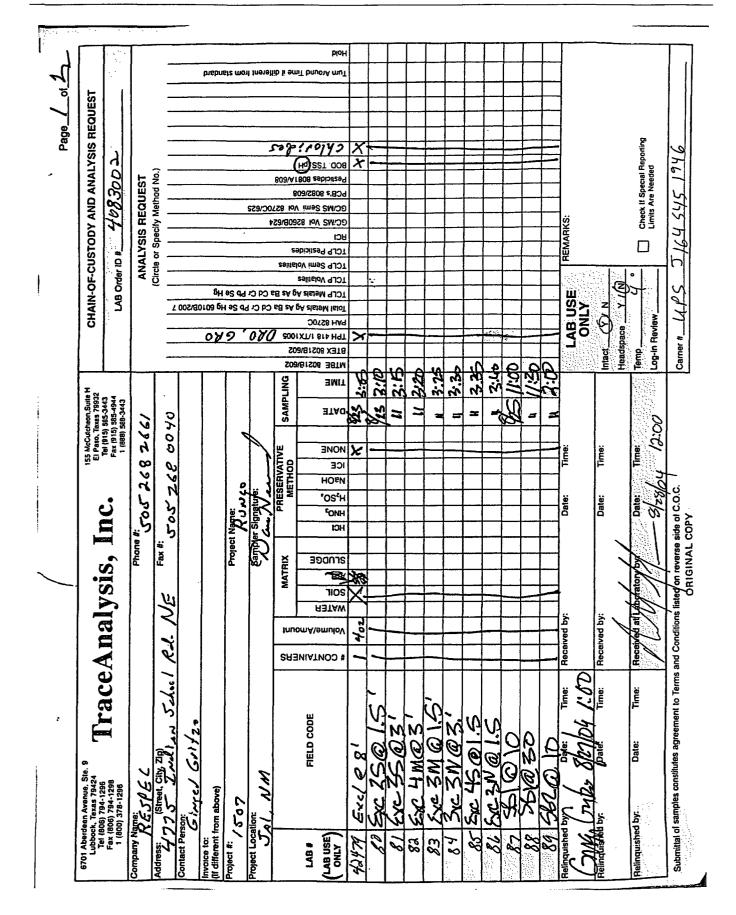
Standard (ICV-1) QC Batch: 12427

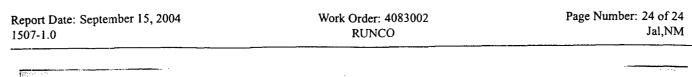
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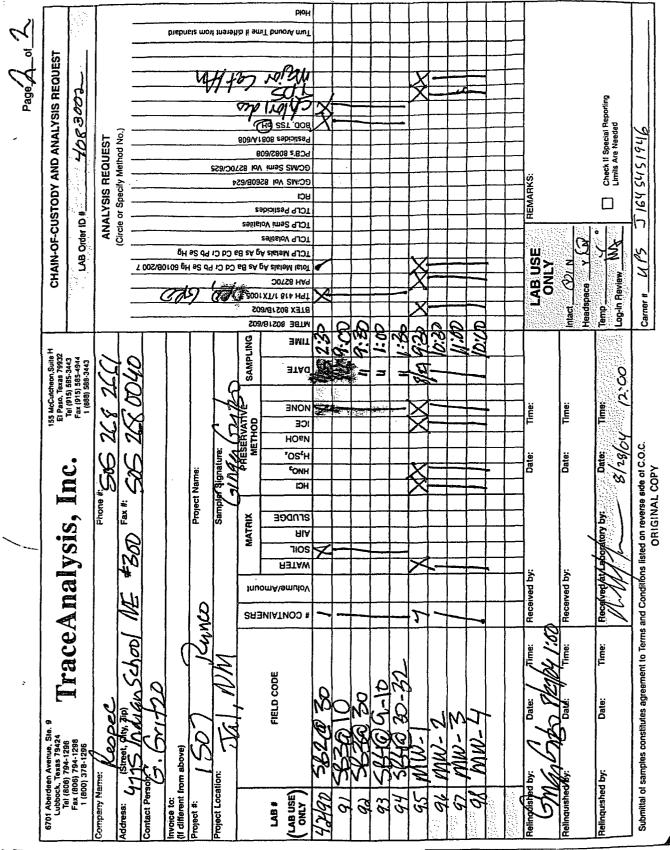
1507-1.0	ite: September 1	5, 2004		Work Order: 4 RUNCC		Page	Number: 22 of 24 Jal,NM
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
pH		s.u.	7.00	7.08	101	98 - 102	2004-08-31
Standard ((CCV-1) Q(C Batch: 12427					
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
ъH		s.u.	7.00	7.04	100	98 - 102	2004-08-31
Standard ((ICV-1) QC	Batch: 12428					
			CCVs	CCVs	CCVs	Percent	
			CUVS	CUVS	CC ¥ 3	I OLOOMU	
			True	Found	Percent	Recovery	Date
'aram	Flag	Units					Date Analyzed
Param DH	Flag	Units s.u.	True	Found	Percent	Recovery	
рН			True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
		s.u.	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
рН		s.u.	True Conc. 7.00	Found Conc. 7.04	Percent Recovery 100	Recovery Limits 98 - 102	Analyzed
ЭН		s.u.	True Conc. 7.00 CCVs	Found Conc. 7.04 CCVs	Percent Recovery 100 CCVs	Recovery Limits 98 - 102 Percent	Analyzed 2004-08-31



Work Order: 4083002 RUNCO Page Number: 23 of 24 Jal,NM







Report Date: September 15, 2004 1507-1.0

Work Order: 4083002 RUNCO

Summary Report

Ginger Gritzo RESPEC 4775 Indian School Rd. NE Suite 300 Albuquerque, NM 87110 Report Date: September 15, 2004

Work Order: 4083002

Project Location:Jal,NMProject Name:RUNCOProject Number:1507-1.0

		Date	Time	Date
Description	Matrix	Taken	Taken	Received
MW-1	water	2004-08-27	09:30	2004-08-28
MW-2	water	2004-08-27	10:30	2004-08-28
MW-3	water	2004-08-27	11:00	2004-08-28
MW-4	water	2004-08-27	10:00	2004-08-28
	MW-1 MW-2 MW-3	MW-1 water MW-2 water MW-3 water	DescriptionMatrixTakenMW-1water2004-08-27MW-2water2004-08-27MW-3water2004-08-27	Description Matrix Taken Taken MW-1 water 2004-08-27 09:30 MW-2 water 2004-08-27 10:30 MW-3 water 2004-08-27 11:00

Comment(s)

Work Order 4083002: Sample #42496 and #42497 Were stored in plastic containers for PAH.

		E	BTEX	
	Benzene	Toluene	Ethylbenzene	Xylene
Sample - Field Code	(mg/L)	(mg/L)	(mg/L)	(mg/L)
42495 - MW-1	<0.00100	<0.00100	<0.00100	< 0.00100
42496 - MW-2	< 0.00100	< 0.00100	< 0.00100	< 0.00100
42497 - MW-3	<0.00100	< 0.00100	< 0.00100	< 0.00100
42498 - MW-4	<0.00100	< 0.00100	< 0.00100	< 0.00100

Sample: 42495 - MW-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		142	mg/L as CaCo3	4.00
Total Alkalinity		142	mg/L as CaCo3	4.00
Dissolved Calcium		321	mg/L	0.500
Dissolved Potassium		34.3	mg/L	0.500
Dissolved Magnesium		90.1	mg/L	0.500
Dissolved Sodium		323	mg/L	0.500
Chloride		472	mg/L	0.500
Fluoride		73.0	mg/L	0.200
Nitrate-N	1	28.0	mg/L	0.200
Naphthalene		< 0.000200	mg/L	0.200
Acenaphthylene		< 0.000200	mg/L	0.200
				continued

 $continued \ldots$

¹Sample ran out of holding time.

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Report Date: September 15, 2004	Work Order: 4083002	Page Number: 2 of 4
1507-1.0	RUNCO	Jal,NM

sample 42495 continued ...

Param	Flag	Result	Units	\mathbf{RL}
Acenaphthene		<0.000200	mg/L	0.200
Fluorene		< 0.000200	mg/L	0.200
Phenanthrene		< 0.000200	mg/L	0.200
Anthracene		< 0.000200	mg/L	0.200
Fluoranthene		< 0.000200	m mg/L	0.200
Pyrene		< 0.000200	m mg/L	0.200
Benzo(a) anthracene		< 0.000200	m mg/L	0.200
Chrysene		< 0.000200	m mg/L	0.200
Benzo(b)fluoranthene		< 0.000200	mg/L	0.200
Benzo(k)fluoranthene		< 0.000200	mg/L	0.200
Benzo(a)pyrene		< 0.000200	m mg/L	0.200
Indeno(1,2,3-cd)pyrene		< 0.000200	mg/L	0.200
${\bf Dibenzo}({\bf a},{\bf h}){\bf anthracene}$		< 0.000200	m mg/L	0.200
Benzo(g,h,i)perylene		< 0.000200	m mg/L	0.200
Sulfate		1080	mg/L	0.500
Total Dissolved Solids		2560	$\mathrm{mg/L}$	10.00
Total Silver		< 0.0125	mg/L	0.0125
Total Arsenic		< 0.0100	m mg/L	0.0100
Total Barium		< 0.100	$\mathrm{mg/L}$	0.100
Total Cadmium		< 0.00500	mg/L	0.00500
Total Chromium		<0.0100	mg/L	0.0100
Total Mercury		< 0.000200	mg/L	0.000200
Total Lead		< 0.0100	mg/L	0.0100
Total Selenium		< 0.0500	mg/L	0.0500

Sample: 42496 - MW-2

Param	Flag	Result	Units	\mathbf{RL}
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		220	mg/L as CaCo3	4.00
Total Alkalinity		220	mg/L as CaCo3	4.00
Dissolved Calcium		707	mg/L	0.500
Dissolved Potassium		39.0	mg/L	0.500
Dissolved Magnesium		104	mg/L	0.500
Dissolved Sodium		448	mg/L	0.500
Chloride		731	mg/L	0.500
Fluoride		3.99	mg/L	0.200
Nitrate-N	2	17.8	mg/L	0.200
Naphthalene		< 0.200	mg/L	0.200
Acenaphthylene		< 0.200	mg/L	0.200
Acenaphthene		< 0.200	mg/L	0.200
Fluorene		< 0.200	mg/L	0.200
Phenanthrene		< 0.200	mg/L	0.200
Anthracene		< 0.200	mg/L	0.200
Fluoranthene		< 0.200	mg/L	0.200
Pyrene		< 0.200	mg/L	0.200
Benzo(a)anthracene		< 0.200	mg/L	0.200
Chrysene		< 0.200	mg/L	0.200
Benzo(b)fluoranthene		< 0.200	mg/L	0.200
			······································	continued

continued ...

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²sample ran out of holding time.

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Report Date: September 15, 2004	Work Order: 4083002	Page Number: 3 of 4
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sample 42496 continued ...

Param	Flag	\mathbf{Result}	Units	RL
Benzo(k)fluoranthene		<0.200	mg/L	0.200
Benzo(a)pyrene		< 0.200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		< 0.200	mg/L	0.200
Dibenzo(a,h)anthracene		< 0.200	mg/L	0.200
Benzo(g,h,i)perylene		< 0.200	mg/L	0.200
Sulfate		981	mg/L	0.500
Total Dissolved Solids		3015	mg/L	10.00
Total Silver		< 0.0125	mg/L	0.0125
Total Arsenic		0.0480	mg/L	0.0100
Total Barium		0.618	mg/L	0.100
Total Cadmium		< 0.00500	mg/L	0.00500
Total Chromium		0.0230	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		< 0.0500	mg/L	0.0500

Sample: 42497 - MW-3

Param	\mathbf{Flag}	Result	\mathbf{Units}	\mathbf{RL}
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		250	mg/L as CaCo3	4.00
Total Alkalinity		250	mg/L as CaCo3	4.00
Dissolved Calcium		403	mg/L	0.500
Dissolved Potassium		57.2	mg/L	0.500
Dissolved Magnesium		131	mg/L	0.500
Dissolved Sodium		49.4	mg/L	0.500
Chloride		965	mg/L	0.500
Fluoride		4.05	mg/L	0.200
Nitrate-N	3	15.2	mg/L	0.200
Naphthalene		< 0.200	mg/L	0.200
Acenaphthylene		< 0.200	mg/L	0.200
Acenaphthene		< 0.200	mg/L	0.200
Fluorene		< 0.200	mg/L	0.200
Phenanthrene		< 0.200	mg/L	0.200
Anthracene		< 0.200	mg/L	0.200
Fluoranthene		< 0.200	mg/L	0.200
Pyrene		<0.200	mg/L	0.200
Benzo(a)anthracene		<0.200	mg/L	0.200
Chrysene		<0.200	mg/L	0.200
Benzo(b)fluoranthene		< 0.200	mg/L	0.200
Benzo(k)fluoranthene		< 0.200	mg/L	0.200
Benzo(a)pyrene		< 0.200	mg/L	0.200
Indeno(1,2,3-cd)pyrene		< 0.200	mg/L	0.200
Dibenzo(a,h)anthracene		< 0.200	mg/L	0.200
Benzo(g,h,i)perylene		< 0.200	mg/L	0.200
Sulfate		932	mg/L	0.500
Total Dissolved Solids		3185	mg/L	10.00
Total Silver		< 0.0125	mg/L	0.0125
Fotal Arsenic		< 0.0100	mg/L	0.0100

continued ...

³sample ran out of holding time.

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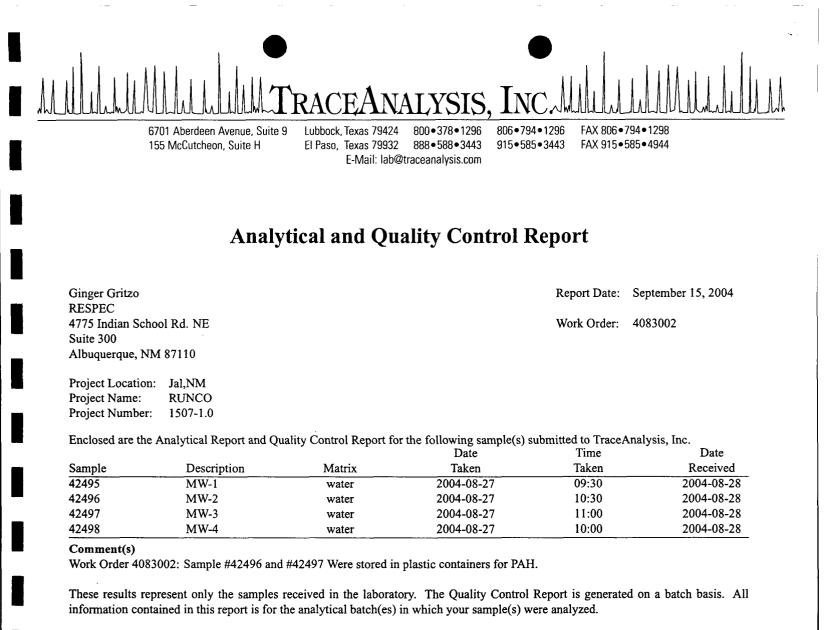
sample 42497 continued ...

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Param	Flag	Result	Units	\mathbf{RL}
Total Barium	······	0.436	mg/L	0.100
Total Cadmium		< 0.00500	mg/L	0.00500
Total Chromium		0.0110	mg/L	0.0100
Total Mercury		<0.000200	mg/L	0.000200
Total Lead		<0.0100	mg/L	0.0100
Total Selenium		< 0.0500	mg/L	0.0500

Sample: 42498 - MW-4

Hydroxide Alkalinity <1.00	Param	Flag	Result	Units	RL
Bicarbonate Alkalinity 206 mg/L as CaCo3 4.00 Total Alkalinity 206 mg/L as CaCo3 4.00 Dissolved Calcium 612 mg/L 0.500 Dissolved Potassium 52.1 mg/L 0.500 Dissolved Magnesium 557 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Dissolved Sodium 157 mg/L 0.500 Chloride 1200 mg/L 0.200 Nitrate-N 4 16.9 mg/L 0.200 Acenaphthylene <0.00100	Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Total Alkalinity 206 mg/L as CaCo3 4.00 Dissolved Calcium 612 mg/L 0.500 Dissolved Magnesium 52.1 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Chloride 1200 mg/L 0.200 Nitrate-N 4 16.9 mg/L 0.200 Naphthalene <0.00100	Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Dissolved Calcium 612 mg/L 0.500 Dissolved Potassium 52.1 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Chloride 1200 mg/L 0.500 Fluoride 1200 mg/L 0.200 Nitrate-N 4 16.9 mg/L 0.200 Acenaphthene <0.00100 mg/L 0.200 Acenaphthene <0.00100 mg/L 0.200 Fluorene <0.00100 mg/L 0.200 Phenanthene <0.00100 mg/L 0.200 Prene <0.00100 mg/L 0.200 Pryrene <0.00100 mg/L 0.200 Pyrene <0.00100 mg/L 0.200 Pyrene <0.00100 mg/L 0.200 Benzo(a)athracene <0.00100 mg/L 0.200 Benzo(a)pyrene	Bicarbonate Alkalinity		206	mg/L as CaCo3	4.00
Dissolved Potassium 52.1 mg/L 0.500 Dissolved Magnesium 157 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Chloride 1200 mg/L 0.500 Fluoride <10.0	Total Alkalinity		206	mg/L as CaCo3	4.00
Dissolved Magnesium 157 mg/L 0.500 Dissolved Sodium 500 mg/L 0.500 Chloride 1200 mg/L 0.500 Fluoride <10.0	Dissolved Calcium		612	mg/L	0.500
Dissolved Sodium 500 mg/L 0.500 Chloride 1200 mg/L 0.500 Fluoride <10.0	Dissolved Potassium		52.1	mg/L	0.500
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Dissolved Magnesium		157	mg/L	
Fluoride <10.0 mg/L 0.200 Nitrate-N 4 16.9 mg/L 0.200 Naphthalene <0.00100			500	mg/L	0.500
Nitrate-N 4 16.9 mg/L 0.200 Naphthalene <0.00100	Chloride		1200	mg/L	0.500
Napitalene10.5 $10, J$ 0.200 Napithalene<0.00100	Fluoride		<10.0	mg/L	0.200
Acenaphthylene < 0.00100 mg/L 0.200 Acenaphthene < 0.00100 mg/L 0.200 Fluorene < 0.00100 mg/L 0.200 Phenanthrene < 0.00100 mg/L 0.200 Anthracene < 0.00100 mg/L 0.200 Fluoranthene < 0.00100 mg/L 0.200 Pyrene < 0.00100 mg/L 0.200 Benzo(a)anthracene < 0.00100 mg/L 0.200 Benzo(a)anthracene < 0.00100 mg/L 0.200 Benzo(b)fluoranthene < 0.00100 mg/L 0.200 Benzo(b)fluoranthene < 0.00100 mg/L 0.200 Benzo(a)pyrene < 0.00100 mg/L 0.200 Benzo(a)pyrene < 0.00100 mg/L 0.200 Benzo(a,h)anthracene < 0.00100 mg/L 0.200 Dibenzo(a,h)anthracene < 0.00100 mg/L 0.200 Benzo(b,hi)perylene < 0.00100 mg/L 0.200 Benzo(b,hi)perylene < 0.00100 mg/L 0.200 Dibenzo(a,h)anthracene < 0.00100 mg/L 0.200 Benzo(b,hi)perylene < 0.00100 mg/L 0.200 Sulfate 1100 mg/L 0.200 Total Dissolved Solids 3630 mg/L 0.0100 Total Arsenic < 0.0125 mg/L 0.0125 Total Arsenic < 0.0100 mg/L 0.00500 Total Cadmium < 0.00500 mg/L 0.00500 Total Chromium < 0.0000 mg/L 0.00	Nitrate-N	4	16.9	mg/L	0.200
Acenaphthene < 0.00100 mg/L 0.200 Fluorene < 0.00100 mg/L 0.200 Phenanthrene < 0.00100 mg/L 0.200 Anthracene < 0.00100 mg/L 0.200 Fluoranthene < 0.00100 mg/L 0.200 Pyrene < 0.00100 mg/L 0.200 Benzo(a)anthracene < 0.00100 mg/L 0.200 Chrysene < 0.00100 mg/L 0.200 Benzo(b)fluoranthene < 0.00100 mg/L 0.200 Benzo(b)fluoranthene < 0.00100 mg/L 0.200 Benzo(a)pyrene < 0.00100 mg/L 0.200 Indeno(1,2,3-cd)pyrene < 0.00100 mg/L 0.200 Dibenzo(a,h)anthracene < 0.00100 mg/L 0.200 Sulfate1100 mg/L 0.200 Total Dissolved Solids 3630 mg/L 0.0125 Total Arsenic < 0.0125 mg/L 0.0125 Total Arsenic < 0.0100 mg/L 0.0100 Total Cadmium 0.140 mg/L 0.00500 Total Cadmium < 0.00500 mg/L 0.00500 Total Chromium < 0.00000 mg/L 0.000200	Naphthalene		< 0.00100	mg/L	0.200
Fluorene 0.00100 mg/L 0.200 Phenanthrene <0.00100 mg/L 0.200 Anthracene <0.00100 mg/L 0.200 Fluoranthene <0.00100 mg/L 0.200 Pyrene <0.00100 mg/L 0.200 Benzo(a)anthracene <0.00100 mg/L 0.200 Chrysene <0.00100 mg/L 0.200 Benzo(a)anthracene <0.00100 mg/L 0.200 Benzo(a)anthracene <0.00100 mg/L 0.200 Benzo(b)fluoranthene <0.00100 mg/L 0.200 Benzo(a)pyrene <0.00100 mg/L 0.200 Benzo(a,h)anthracene <0.00100 mg/L 0.200 Dibenzo(a,h)anthracene <0.00100 mg/L 0.200 Sulfate 1100 mg/L 0.200 Total Dissolved Solids 3630 mg/L 0.0125 Total Arsenic <0.0100 mg/L 0.0125 Total Arsenic <0.0100 mg/L 0.00500 Total Cadmium <0.00500 mg/L 0.00500 Total Chromium <0.00200 mg/L 0.000200	Acenaphthylene		< 0.00100	mg/L	0.200
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Acenaphthene		< 0.00100	mg/L	0.200
Anthracene 0.00100 mg/L 0.200 Fluoranthene 0.00100 mg/L 0.200 Pyrene 0.00100 mg/L 0.200 Benzo(a)anthracene 0.00100 mg/L 0.200 Chrysene 0.00100 mg/L 0.200 Benzo(b)fluoranthene 0.00100 mg/L 0.200 Benzo(b)fluoranthene 0.00100 mg/L 0.200 Benzo(a)pyrene 0.00100 mg/L 0.200 Benzo(a)pyrene 0.00100 mg/L 0.200 Benzo(a,h)anthracene 0.00100 mg/L 0.200 Dibenzo(a,h)anthracene 0.00100 mg/L 0.200 Benzo(g,h,i)perylene 0.00100 mg/L 0.200 Sulfate 1100 mg/L 0.200 Total Dissolved Solids 3630 mg/L 0.0125 Total Arsenic 0.0100 mg/L 0.0100 Total Gadnium 0.140 mg/L 0.0100 Total Cadmium 0.00500 mg/L 0.00500 Total Chromium <0.00500 mg/L 0.000200	Fluorene		< 0.00100	mg/L	0.200
Fluoranthene < 0.00100 mg/L 0.200 Pyrene < 0.00100 mg/L 0.200 Benzo(a)anthracene < 0.00100 mg/L 0.200 Chrysene < 0.00100 mg/L 0.200 Benzo(b)fluoranthene < 0.00100 mg/L 0.200 Benzo(k)fluoranthene < 0.00100 mg/L 0.200 Benzo(a)pyrene < 0.00100 mg/L 0.200 Indeno(1,2,3-cd)pyrene < 0.00100 mg/L 0.200 Dibenzo(a,h)anthracene < 0.00100 mg/L 0.200 Sulfate 1100 mg/L 0.200 Sulfate 1100 mg/L 0.000 Total Disolved Solids 3630 mg/L 0.0125 Total Silver < 0.0125 mg/L 0.0100 Total Arsenic < 0.0000 mg/L 0.0100 Total Cadmium < 0.00500 mg/L 0.00500 Total Cadmium < 0.00500 mg/L 0.00500 Total Cadmium < 0.00000 mg/L 0.00000 Total Cadmium < 0.00000 mg/L 0.00000 Total Cadmium < 0.00000 mg/L 0.00000 Total Chromium < 0.00000 mg/L 0.000200	Phenanthrene		< 0.00100	mg/L	0.200
Pyrene < 0.00100 mg/L 0.200 Benzo(a) anthracene < 0.00100 mg/L 0.200 Chrysene < 0.00100 mg/L 0.200 Benzo(b) fluoranthene < 0.00100 mg/L 0.200 Benzo(k) fluoranthene < 0.00100 mg/L 0.200 Benzo(a) pyrene < 0.00100 mg/L 0.200 Indeno(1,2,3-cd) pyrene < 0.00100 mg/L 0.200 Dibenzo(a,h) anthracene < 0.00100 mg/L 0.200 Benzo(g,h,i) perylene < 0.00100 mg/L 0.200 Sulfate1100mg/L 0.200 Total Dissolved Solids 3630 mg/L 10.00 Total Silver < 0.0125 mg/L 0.0125 Total Arsenic < 0.0100 mg/L 0.0100 Total Cadmium 0.140 mg/L 0.00500 Total Cadmium < 0.00500 mg/L 0.00500 Total Chromium < 0.000200 mg/L 0.000200	Anthracene		< 0.00100	mg/L	0.200
Benzo(a) anthracene<0.00100 mg/L 0.200Chrysene<0.00100	Fluoranthene		< 0.00100	mg/L	0.200
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Pyrene		< 0.00100	mg/L	0.200
Benzo(b)fluoranthene < 0.00100 mg/L 0.200 Benzo(k)fluoranthene < 0.00100 mg/L 0.200 Benzo(a)pyrene < 0.00100 mg/L 0.200 Indeno(1,2,3-cd)pyrene < 0.00100 mg/L 0.200 Dibenzo(a,h)anthracene < 0.00100 mg/L 0.200 Benzo(g,h,i)perylene < 0.00100 mg/L 0.200 Sulfate 1100 mg/L 0.200 Total Dissolved Solids 3630 mg/L 0.0125 Total Silver < 0.0125 mg/L 0.0125 Total Arsenic < 0.0100 mg/L 0.0100 Total Barium 0.140 mg/L 0.0100 Total Cadmium < 0.00500 mg/L 0.00500 Total Chromium < 0.000200 mg/L 0.000200	Benzo(a)anthracene		< 0.00100	mg/L	
Benzo(k)fluoranthene< 0.00100mg/L0.200Benzo(a)pyrene<0.00100	Chrysene		< 0.00100	mg/L	
Benzo(a)pyrene<0.00100mg/L0.200Indeno(1,2,3-cd)pyrene<0.00100			< 0.00100	mg/L	0.200
$ \begin{array}{c ccccc} Indeno(1,2,3-cd) pyrene & <0.00100 & mg/L & 0.200 \\ \hline Dibenzo(a,h) anthracene & <0.00100 & mg/L & 0.200 \\ \hline Benzo(g,h,i) perylene & <0.00100 & mg/L & 0.200 \\ \hline Sulfate & 1100 & mg/L & 0.500 \\ \hline Total Dissolved Solids & 3630 & mg/L & 10.00 \\ \hline Total Silver & <0.0125 & mg/L & 0.0125 \\ \hline Total Arsenic & <0.0100 & mg/L & 0.0100 \\ \hline Total Barium & 0.140 & mg/L & 0.100 \\ \hline Total Cadmium & <0.00500 & mg/L & 0.00500 \\ \hline Total Chromium & <0.000200 & mg/L & 0.000200 \\ \hline \end{array} $	Benzo(k)fluoranthene		< 0.00100	mg/L	0.200
Dibenzo(a,h)anthracene< 0.00100mg/L0.200Benzo(g,h,i)perylene<0.00100	Benzo(a)pyrene		< 0.00100	mg/L	0.200
Benzo(g,h,i)perylene<0.00100mg/L0.200Sulfate1100mg/L0.500Total Dissolved Solids3630mg/L10.00Total Silver<0.0125	Indeno(1,2,3-cd)pyrene		< 0.00100	mg/L	0.200
Sulfate 1100 mg/L 0.500 Total Dissolved Solids 3630 mg/L 10.00 Total Silver <0.0125	Dibenzo(a,h)anthracene		< 0.00100	mg/L	0.200
Sulfate 1100 mg/L 0.500 Total Dissolved Solids 3630 mg/L 10.00 Total Silver <0.0125	Benzo(g,h,i) perylene		< 0.00100	mg/L	0.200
Total Silver < 0.0125 mg/L 0.0125 Total Arsenic < 0.0100			1100	mg/L	0.500
Total Arsenic < 0.0100 mg/L 0.0100 Total Barium 0.140 mg/L 0.100 Total Cadmium < 0.00500	Total Dissolved Solids		3630	mg/L	10.00
Total Barium 0.140 mg/L 0.100 Total Cadmium <0.00500	Total Silver		< 0.0125	mg/L	0.0125
Total Cadmium <0.00500 mg/L 0.00500 Total Chromium <0.0100	Total Arsenic		< 0.0100	mg/L	0.0100
Total Cadmium <0.00500 mg/L 0.00500 Total Chromium <0.0100	Total Barium		0.140	mg/L	0.100
Total Mercury <0.000200 mg/L 0.000200	Total Cadmium		< 0.00500		0.00500
Total Mercury <0.000200 mg/L 0.000200	Total Chromium		< 0.0100	mg/L	0.0100
Total Lead 0.0360 mg/L 0.0100	Total Mercury		< 0.000200		0.000200
	Total Lead		0.0360	mg/L	0.0100
Total Selenium <0.0500 mg/L 0.0500	Total Selenium		< 0.0500	mg/L	0.0500



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Dr. Blair Leftwich, Director

Report Date: September 15, 2004 1507-1.0

Work Order: 4083002 RUNCO Page Number: 2 of 26 Jal,NM

Analytical Report

Sample: 42495 - MW-1

Analysis:AlkalinityQC Batch:12672Prep Batch:11204		Analytical Method: Date Analyzed: Date Prepared:	SM 2320B 2004-09-15 2004-09-15	Prep Method: Analyzed By: Prepared By:	
		RL	2004-09-15	Tiepateu By.	KS
	51		T T T	D 11 /	D.I.
Parameter	Flag	Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		142	mg/L as CaCo3	1	4.00
Total Alkalinity		142	mg/L as CaCo3	1	4.00

Sample: 42495 - MW-1

Analysis:BTEXQC Batch:12396Prep Batch:10946		Analytical M Date Analyze Date Prepare	ed:	S 8021B 2004-08-30 2004-08-30		Prep Method Analyzed By Prepared By:	
		RI					
Parameter Flag		Resul	t	Units	Di	lution	RL
Benzene		< 0.00100)	mg/L		1	0.00100
Toluene		< 0.00100)	mg/L		1	0.00100
Ethylbenzene		< 0.00100)	mg/L		1	0.00100
Xylene		< 0.00100)	mg/L		1	0.00100
,					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.109	mg/L	, 1	0.100	109	78.4 - 118
4-Bromofluorobenzene (4-BFB))	0.0969	mg/L	, 1	0.100	97	53.1 - 149

Sample: 42495 - MW-1

Analysis: QC Batch: Prep Batch:	Cations 12613 11139		Date Analyzed: 2004-09-13 Analyzed By		Prep Method: Analyzed By: Prepared By:	RR
Parameter		Flag	RL Result	Units	Dilution	RL
Dissolved Cal	lcium	1 146	321	mg/L	1	0.500
Dissolved Pot	tassium		34.3	mg/L	1	0.500
Dissolved Ma	gnesium		90.1	mg/L	1	0.500
Dissolved Soc	dium		323	mg/L	1	0.500

Sample: 42495 - MW-1

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	12676	Date Analyzed:	2004-09-14	Analyzed By:	MW
Prep Batch:	11207	Date Prepared:	2004-09-14	Prepared By:	MW

Report Date 1507-1.0	: September 15	5, 2004		Work Ord RU	Page Number: 3 of 26		
				RL			
Parameter		Flag		Result	Units	Dilution	RL
Chloride	<u></u>			472	mg/L	100	0.500
Sample: 424	495 - MW-1						
Analysis:	Fluoride (IC)			Analytical Method	E 300.0	Prep Meth	od: N/A
QC Batch:	12676			Date Analyzed:	2004-09-14	Analyzed	
Prep Batch:	11207			Date Prepared:	2004-09-14	Prepared H	•
				RL			
Parameter		Flag		Result	Units	Dilution	RL
Fluoride				73.0	mg/L	100	0.200
Sample: 424	95 - MW-1						
Analysis:	NO3 (IC)			Analytical Method:	E 300.0	Prep Meth	od: N/A
QC Batch:	12676			Date Analyzed:	2004-09-14	Analyzed	
Prep Batch:	11207			Date Prepared:	2004-09-14	Prepared H	~
				RL			
Parameter		Flag		Result	Units	Dilution	RL
Nitrate-N		- 		28.0	mg/L	100	0.200
Sample: 424	95 - MW-1						
Analysis:	PAH			Analytical Method: S 8	270C	Prep Method:	S 3510C
QC Batch:	12505		•	Date Analyzed: 20	04-09-06	Analyzed By:	RC
Prep Batch:	11062			Date Prepared: 20	04-09-03	Prepared By:	RC
				RL			1.1
Parameter			Flag	Result	Units	Dilution	RI
Naphthalene				<0.000200	mg/L	0.001	0.200
Acenaphthyle	ene			< 0.000200	mg/L	0.001	0.200
Acenaphthen	e			< 0.000200	mg/L	0.001	0.200
Fluorene				<0.000200	mg/L	0.001	0.200
henanthrene	•			< 0.000200	mg/L	0.001	0.200
Anthracene				< 0.000200	mg/L	0.001	0.200
luoranthene				<0.000200	mg/L	0.001	0.200
yrene				<0.000200	mg/L	0.001	0.200
Benzo(a)anth	racene			< 0.000200	mg/L	0.001	0.200
Chrysene				< 0.000200	mg/L	0.001	0.200
Benzo(b)fluo				< 0.000200	mg/L	0.001	0.200
Benzo(k)fluo				< 0.000200	mg/L	0.001	0.200
Benzo(a)pyre				<0.000200	mg/L	0.001	0.200
	I)			< 0.000200	mg/L	0.001	0.200
ndeno(1,2,3-							
ndeno(1,2,3- Dibenzo(a,h); Benzo(g,h,i)p	anthracene			<0.000200 <0.000200 <0.000200	mg/L mg/L	0.001 0.001	0.200

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¹Sample ran out of holding time.

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Report Date: September 15, 2004 1507-1.0					der: 4083002 UNCO	Page Number: 4 of 26 Jal,NM		
Surrogate		Flag	Result		Dilution	Spike Amount	Percent Recovery	Recover Limits
Nitrobenzene			0.0310	mg/L	0.001	80.0	39	0 - 128
2-Fluorobiph	•		0.0387	mg/L	0.001	80.0	48	0 - 140
Terphenyl-d1	14		0.0342	mg/L	0.001	80.0	43	0 - 165
Sample: 424	195 - MW-1							
Analysis:	SO4 (IC)			Analytical Method:	E 300.0		Pren M	Aethod: N/A
QC Batch:	12676			Date Analyzed:	2004-09-14			zed By: MV
Prep Batch:	11207			Date Prepared:	2004-09-14		•	red By: MV
•				•			1	5
D		751		RL	** */			D
Parameter		Flag		Result	Units		Dilution	R
Sulfate				1080	mg/L		10	0.50
Sample: 424 Analysis: QC Batch:	TDS 12408			Analytical Method: Date Analyzed:	SM 2540C 2004-08-31		Analy	zed By: Wl
Analysis: QC Batch: Prep Batch:	TDS			Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30		Analy Prepar	zed By: Wl red By: Wl
Analysis: QC Batch: Prep Batch: Parameter	TDS 12408 10956		Flag	Date Analyzed: Date Prepared: RL Result	2004-08-31 2004-08-30 Units		Analy Prepar Dilution	zed By: Wl red By: Wl R
Analysis: QC Batch: Prep Batch: Parameter	TDS 12408 10956		Flag	Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30		Analy Prepar	zed By: Wl red By: Wl R
Analysis: QC Batch: Prep Batch:	TDS 12408 10956 red Solids		Flag	Date Analyzed: Date Prepared: RL Result	2004-08-31 2004-08-30 Units mg/L : S 7470A 2004-09-07 2004-09-04		Analy Prepar Dilution	zed By: WF red By: WF 10.0 od: N/A By: TP Sy: TP od: S 3010/ By: RR
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch:	TDS 12408 10956 //ed Solids //ed Solids //ed Solids //ed Solids //	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL	2004-08-31 2004-08-30 Units mg/L : S 7470A 2004-09-07 2004-09-07 2004-09-04 : S 6010B 2004-09-09 2004-09-01		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WI red By: WI 10.0 od: N/A By: TP od: S 3010/ By: RR By: JH
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch:	TDS 12408 10956 //ed Solids //ed Solids //ed Solids //ed Solids //			Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result	2004-08-31 2004-08-30 Units mg/L : S 7470A 2004-09-07 2004-09-04 : S 6010B 2004-09-09 2004-09-01 Units		Analy Prepar Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I	zed By: WI red By: WI <u>R</u> 10.0 od: N/A By: TP od: S 3010, By: RR By: RR By: JH
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Prep Batch:	TDS 12408 10956 //ed Solids //ed Solids //ed Solids //	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result <0.0125	2004-08-31 2004-08-30 Units mg/L		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WH red By: WH
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Prep Batch: Total Silver Total Arsenic	TDS 12408 10956 //ed Solids //ed Solids //	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result <0.0125 <0.0100	2004-08-31 2004-08-30 Units mg/L S 7470A 2004-09-07 2004-09-04 S 6010B 2004-09-09 2004-09-01 Units mg/L mg/L		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WI red By: WI <u>R</u> 10.0 od: N/A By: TP od: S 3010. By: RR By: JH <u>R</u> <u>0.012</u> 0.010
Analysis: QC Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Total Silver Total Arsenic Total Barium	TDS 12408 10956 //ed Solids //ed Solids //	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result <0.0125 <0.0100 <0.100	2004-08-31 2004-08-30 Units mg/L S 7470A 2004-09-07 2004-09-04 S 6010B 2004-09-09 2004-09-01 Units mg/L mg/L		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WI red By: WI
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Prep Batch: Total Silver Total Arsenic Total Barium Total Cadmit	TDS 12408 10956 ved Solids ved Ved Ved Ved Ved Ved Ved Ved Ved Ved V	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result <0.0125 <0.0100 <0.100 <0.00500	2004-08-31 2004-08-30 Units mg/L S 7470A 2004-09-07 2004-09-07 2004-09-04 S 6010B 2004-09-01 Units mg/L mg/L mg/L mg/L		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WI red By: WI
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Prep Batch: Drep Batch: Prep Batch: Total Silver Total Silver Total Arsenic Total Barium Total Cadmiu Total Chromi	TDS 12408 10956 //ed Solids //ed Solids //ed Solids //ed Solids //ed Solids //ed Solids //ed Solids //	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result <0.0125 <0.0100 <0.00500 <0.0100	2004-08-31 2004-08-30 Units mg/L S 7470A 2004-09-07 2004-09-07 2004-09-04 S 6010B 2004-09-01 Units mg/L mg/L mg/L mg/L mg/L		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WI red By: WI
Analysis: QC Batch: Prep Batch: Prep Batch: Total Dissolv Sample: 424 Analysis: QC Batch: Prep Batch: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Prep Batch: Total Silver Total Arsenic Total Barium Total Cadmit	TDS 12408 10956 //ed Solids //ed Solids //ed Solids //ed Solids //ed Solids //ed Solids //ed Solids //	als		Date Analyzed: Date Prepared: RL Result 2560 Analytical Method Date Analyzed: Date Prepared: Analytical Method Date Analyzed: Date Prepared: RL Result <0.0125 <0.0100 <0.100 <0.00500	2004-08-31 2004-08-30 Units mg/L S 7470A 2004-09-07 2004-09-07 2004-09-04 S 6010B 2004-09-01 Units mg/L mg/L mg/L mg/L		Analy Prepared Dilution 1 Prep Meth Analyzed I Prepared E Prep Meth Analyzed I Prepared E	zed By: WF red By: WF 10.0 od: N/A By: TP Sy: TP od: S 3010/ By: RR

Sample: 42496 - MW-2

Analysis: Alkalinity

Report Date: September 15, 2004 1507-1.0		Work	Order: 4083002 RUNCO	Page Number: 5 of 26 Jal,NM		
QC Batch: 12672		Date Analyzed:	2004-09-15	Analyzed By:	RS	
Prep Batch: 11204		Date Prepared:	2004-09-15	Prepared By:	RS	
		RL				
Parameter	Flag	Result	Units	Dilution	RL	
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00	
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00	
Bicarbonate Alkalinity		220	mg/L as CaCo3	1	4.00	
Total Alkalinity		220	mg/L as CaCo3	11	4.00	
Sample: 42496 - MW-2						
Analysis: BTEX		Analytical Method:	S 8021B	Prep Method: S	5030B	
QC Batch: 12396		Date Analyzed:	2004-08-30	Analyzed By: M	S	
Prep Batch: 10946		Date Prepared:	2004-08-30	Prepared By: M	S	
		RL				
Parameter Flag		Result	Units	Dilution	RL	

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Analysis: BTEX		Analytical Met	hod:	S 8021B		Prep Method	l: S 5030B
QC Batch: 12396		Date Analyzed	:	2004-08-30		Analyzed By	r: MS
Prep Batch: 10946		Date Prepared:		2004-08-30		Prepared By	: MS
		RL					
Parameter Flag		Result		Units	Di	lution	RL
Benzene		< 0.00100		mg/L		1	0.00100
Toluene		< 0.00100		mg/L		1	0.00100
Ethylbenzene		< 0.00100		mg/L		1	0.00100
Xylene	·····	< 0.00100		mg/L		1	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	78.4 - 118
4-Bromofluorobenzene (4-BFB)		0.0944	mg/L	1	0.100	94	53.1 - 149

Sample: 42496 - MW-2

Analysis: Cations		Analytical Method:	S 6010B	Prep Method:	S 3005A	
QC Batch: 12611		Date Analyzed:	2004-09-13	Analyzed By:	RR	
Prep Batch: 11116		Date Prepared:			ЛН	
		RL				
Parameter	Flag	Result	Units	Dilution	RL	
Dissolved Calcium		707	mg/L	1	0.500	
Dissolved Potassium		39.0	mg/L	1	0.500	
Dissolved Magnesium		104	mg/L	1	0.500	
Dissolved Sodium		448	mg/L	1	0.500	

Sample: 42496 - MW-2

Analysis:	Chloride (IC)	Analytical Method:	E 300.0		Prep Method:	N/A
QC Batch:	12676	Date Analyzed:	2004-09-14		Analyzed By:	MW
Prep Batch:	11207	Date Prepared:	2004-09-14		Prepared By:	MW
		RL				
Parameter	Flag	Result	Units	Dilution		RL
Chloride		731	mg/L	100		0.500

: September 15	, 2004		Work	Order: 4083002 RUNCO	Page Numb	ber: 6 of 20 Jal,NN
196 - MW-2						
Fluoride (IC)			Analytical Met	thod: E 300.0	Prep Meth	od: N/A
12676					Analyzed	By: MW
11207			Date Prepared:	2004-09-14	Prepared E	By: MW
			DI			
	Flag		Result	Units	Dilution	RL
			3.99	mg/L	10	0.200
196 - MW-2						
NO3 (IC)			Analytical Meth	od: E 300.0	Prep Meth	od: N/A
			-	2004-09-14		
11207			Date Prepared:	2004-09-14	-	•
					•	•
	Flag			Units	Dilution	RL
	2					0.200
196 - MW-2						
РАН			Analytical Method:	S 8270C	Prep Method:	S 3510C
12505				2004-09-06	Analyzed By:	RC
11062			Date Prepared:	2004-09-03	Prepared By:	RC
			DI			
		Flag		Units	Dilution	RL
			<0.200	mg/L	1	0.200
ene			< 0.200	· mg/L	1	0.200
ie			<0.200	mg/L	1	0.200
			< 0.200	mg/L	1	0.200
e					1	0.200
				mg/L	1	0.200
•			<0.200	mg/L	1	0.200
			< 0.200	mg/L	1	0.200
nracene			< 0.200	mg/L	1	0.200
nracene pranthene					1	
	Fluoride (IC) 12676 11207 96 - MW-2 NO3 (IC) 12676 11207 96 - MW-2 PAH 12505 11062 ene	Fluoride (IC) 12676 11207 Flag 96 - MW-2 NO3 (IC) 12676 11207 Flag 2 96 - MW-2 PAH 12505 11062 ene	Fluoride (IC) 12676 11207 Flag 96 - MW-2 NO3 (IC) 12676 11207 Flag 2 96 - MW-2 PAH 12505 11062 Flag ene e	Fluoride (IC)Analytical Met Date Analyzed Date Prepared:11207RL ResultFlagResult3.99196 - MW-2NO3 (IC)Analytical Meth Date Analyzed: 1120711207Date Prepared:RL FlagResult217.812676Date Analyzed: Date Prepared:1207Date Prepared:PAH 12505Analytical Method: Date Prepared:11062Date Prepared:RL FlagResult ColorPAH 12505Analytical Method: Date Prepared:RL FlagResult ColorSee end 	96 - MW-2Fluoride (IC)Analytical Method:E 300.012676Date Analyzed:2004-09-1411207Date Prepared:2004-09-14RLFlagResultUnits3.99mg/LMW-2NO3 (IC)Analytical Method:E 300.012676Date Analyzed:2004-09-1411207Date Prepared:2004-09-1411207Date Prepared:2004-09-14RLFlagResultUnits217.8mg/LP96 - MW-2PAHAnalytical Method:S 8270C12505Date Analyzed:2004-09-0611062Date Prepared:2004-09-0611062RLFlagResultUnitsAnalytical Method:S 8270C12505Date Analyzed:2004-09-0611062Date Prepared:2004-09-06Inition of the second of the secon	96 - MW-2 Fluoride (IC) Analytical Method: E 300.0 Prep Meth 12676 Date Analyzed: 2004-09-14 Analyzed 1207 Date Prepared: 2004-09-14 Prepared E RL Flag Result Units Dilution 3.99 mg/L 10 10 96 - MW-2 NO3 (IC) Analytical Method: E 300.0 Prep Meth 12676 Date Analyzed: 2004-09-14 Analyzed 12676 Date Analyzed: 2004-09-14 Analyzed 1207 Date Prepared: 2004-09-14 Prepared E RL Flag Result Units Dilution 2 17.8 mg/L 10 96 - MW-2 PAH Analytical Method: \$ 8270C Prep Method: 12505 Date Analyzed: 2004-09-06 Analyzed By: 11062 Date Prepared: 2004-09-03 Prepared By: NO-

Dibenzo(a,h)anthracene < 0.200 mg/L 1 Benzo(g,h,i)perylene < 0.200 mg/L 1 Spike Percent Surrogate Dilution Flag Result Units Amount Recovery Nitrobenzene-d5 27.1 mg/L 80.0 34 1 80.0 49 2-Fluorobiphenyl 39.2 1 mg/L 80.0 60 Terphenyl-d14 47.7 mg/L 1

< 0.200

< 0.200

< 0.200

mg/L

mg/L

mg/L

0.200

0.200 0.200

0.200

0.200

Recovery

Limits

0 - 128

0 - 140

0 - 165

i

1

1

1

²sample ran out of holding time.

Benzo(k)fluoranthene

Indeno(1,2,3-cd)pyrene

Benzo(a)pyrene

Report Date: September 15, 2004 1507-1.0			der: 4083002 UNCO	Page Number: 7 of 26 Jal,NM		
Sample: 424	496 - MW-2					
Analysis:	SO4 (IC)		Analytical Method:	E 300.0	Prep Meth	nod: N/A
QC Batch:	12676		Date Analyzed:	2004-09-14	Analyzed	
Prep Batch:	11207		Date Prepared:	2004-09-14	Prepared 1	By: MW
_			RL			
Parameter	Fl	ag	Result	Units	Dilution	RL
Sulfate	·		981	mg/L	100	0.500
Sample: 424	196 - MW-2					
Analysis:	TDS		Analytical Method:	SM 2540C	Prep Meth	
QC Batch:	12408		Date Analyzed:	2004-08-31	Analyzed	
Prep Batch:	10956		Date Prepared:	2004-08-30	Prepared	By: WB
Parameter		Flag	RL Result	Units	Dilution	RL
Total Dissolv	ed Solids	Tiag	3015	mg/L	1	10.00
Sample: 424	96 - MW-2					
Analysis:	Total 8 Metals		Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	12521		Date Analyzed:	2004-09-07	Analyzed By:	TP
Prep Batch:	11034		Date Prepared:	2004-09-04	Prepared By:	TP
Analysis:	Total 8 Metals		Analytical Method:		Prep Method:	S 3010A
QC Batch:	12571		Date Analyzed:	2004-09-09	Analyzed By:	RR
Prep Batch:	10970		Date Prepared:	2004-09-01	Prepared By:	JH
Parameter		Flag	RL Result	Units	Dilution	RL
Total Silver		1 14g	<0.0125	mg/L	1	0.0125
Total Arsenic	2		0.0480	mg/L	1	0.0100
fotal Barium			0.618	mg/L	1	0.100
Total Cadmiu			<0.00500	mg/L	1	0.00500
fotal Chromi	um		0.0230	mg/L	1	0.0100
Total Mercury	у		< 0.000200	mg/L	1	0.000200
Fotal Lead			< 0.0100	mg/L	1	0.0100
Fotal Seleniu	m		<0.0500	mg/L	1	0.0500
Sample: 424	97 - MW-3					
Analysis:	Alkalinity		Analytical Method:	SM 2320B	Prep Meth	nod: N/A
QC Batch:	12672		Date Analyzed:	2004-09-15	Analyzed	
rep Batch:	11204		Date Prepared:	2004-09-15	Prepared I	
lonometr-		Flag	RL Bogult	T T : 4	Dilution	RL
Parameter	lleolinity	Flag	Result	Units	Dilution	1.00
Iydroxide Al	•		<1.00	mg/L as CaCo3	1	1.00
Parhanata All						
Carbonate All Bicarbonate A			<1.00 250	mg/L as CaCo3 mg/L as CaCo3	1	4.00

continued ...

1507-1.0	: September 15	, 2004			rder: 4083002 RUNCO		Page Num	Jal,N
sample 4249	7 continued							
Parameter		Flag	RL Result		т	Jnits	Dilution	R
Total Alkalir	nity	1 14g	250		mg/L as Ca		1	4.0
	iity		250				1	4.0
Sample: 424	497 - MW-3							
Analysis:	BTEX		Analytical Met	thod:	S 8021B		Prep Method:	S 5030
QC Batch:	12396		Date Analyzed		2004-08-30		Analyzed By:	MS
Prep Batch:	10946		Date Prepared:		2004-08-30		Prepared By:	MS
Parameter		Flag	RL Result		Units	л	ilution	R
Benzene		Tiag	<0.00100		mg/L	D	1	0.0010
Toluene			< 0.00100		mg/L		1	0.0010
Ethylbenzen	e		<0.00100		mg/L		1	0.0010
Xylene	-		<0.00100		mg/L		1	0.0010
					<i>, ~ _</i>	Spike	Percent	Recover
					D ¹¹	-		
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
	ene (TFT)	Flag	Result 0.108			0.100	Recovery 108	
Trifluorotolu	eene (TFT) probenzene (4-E			Units mg/L mg/L	1			78.4 - 11
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch:	probenzene (4-E		0.108	mg/L mg/L thod: l:	1	0.100	108	78.4 - 11 53.1 - 14
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch:	197 - MW-3 Cations 12611	SFB)	0.108 0.0927 Analytical Me Date Analyzed Date Prepared	mg/L mg/L thod: l: : RL	1 1 S 6010B 2004-09-13 2004-09-09	0.100	108 93 Prep Method: Analyzed By: Prepared By:	78.4 - 11 53.1 - 14 S 3005 RR JH
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	197 - MW-3 Cations 12611 11116		0.108 0.0927 Analytical Me Date Analyzed Date Prepared Res	mg/L mg/L thod: l: : RL sult	1 1 S 6010B 2004-09-13 2004-09-09 Units	0.100	108 93 Prep Method: Analyzed By:	78.4 - 11 53.1 - 14 S 3005 RR JH
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Dissolved Ca	197 - MW-3 Cations 12611 11116	SFB)	0.108 0.0927 Analytical Me Date Analyzed Date Prepared Res 4	mg/L mg/L thod: 1: : RL RL sult 403	1 1 S 6010B 2004-09-13 2004-09-09 Units mg/L	0.100	108 93 Prep Method: Analyzed By: Prepared By: Dilution 1	78.4 - 11 53.1 - 14 S 3005. RR JH R 0.50
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Dissolved Ca Dissolved Pc	robenzene (4-E 197 - MW-3 Cations 12611 11116 alcium otassium	SFB)	0.108 0.0927 Analytical Me Date Analyzed Date Prepared Res 4 5	mg/L mg/L thod: i: : RL wult 103 7.2	1 1 2004-09-13 2004-09-09 Units mg/L mg/L	0.100	108 93 Prep Method: Analyzed By: Prepared By: Dilution 1 1	78.4 - 11 53.1 - 14 S 3005. RR JH R 0.50 0.50
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Dissolved Ca Dissolved Pc Dissolved M	robenzene (4-E 197 - MW-3 Cations 12611 11116 alcium otassium agnesium	SFB)	0.108 0.0927 Analytical Me Date Analyzed Date Prepared Ress 4 5	mg/L mg/L thod: 1: : RL RL sult	1 1 S 6010B 2004-09-13 2004-09-09 Units mg/L	0.100	108 93 Prep Method: Analyzed By: Prepared By: Dilution 1	78.4 - 11 53.1 - 14 S 3005 RR JH R 0.50 0.50 0.50
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Dissolved Ca Dissolved Pc Dissolved M Dissolved Sc Sample: 424 Analysis:	Algorian State (4-E Algorian Algorian Algorian State (4-E Algorian Algorian State (4-E Algorian State (10) Algorian State (10) Algorian Algorian State (10) Algorian Algorian State (10) Algorian State (10) Algori	BFB) Flag	0.108 0.0927 Analytical Me Date Analyzed Date Prepared Ress 4 5 1 4 4 5 1 4 4	mg/L mg/L thod: i: : RL sult 03 7.2 31 9.4	1 1 S 6010B 2004-09-13 2004-09-09 Units mg/L mg/L mg/L mg/L	0.100	108 93 Prep Method: Analyzed By: Prepared By: Dilution 1 1 1 1 1 1 1	78.4 - 11 53.1 - 14 S 3005 RR JH R 0.50 0.50 0.50 0.50
Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Dissolved Ca Dissolved Pc Dissolved M Dissolved Sc Sample: 424 Analysis: QC Batch:	Alexandree (4-E Alexandree (4-E) (4-	BFB) Flag	0.108 0.0927 Analytical Me Date Analyzed Date Prepared Ress 4 5 1 4	mg/L mg/L thod: 1: : RL wilt 03 7.2 31 9.4	1 1 2004-09-13 2004-09-09 Units mg/L mg/L mg/L	0.100	108 93 Prep Method: Analyzed By: Prepared By: Dilution 1 1 1 1	78.4 - 11 53.1 - 14 S 3005. RR JH R 0.50 0.50 0.50 0.50 0.50 0.50
Surrogate Trifluorotolu 4-Bromofluo Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch: Dissolved Ca Dissolved Pc Dissolved M Dissolved Sc Sample: 424 Analysis: QC Batch: Prep Batch: Prep Batch:	Algoria - MW-3 Cations 12611 11116 Alcium Agnesium Agnesium Algoria - MW-3 Chloride (IC) 12676	BFB) Flag	0.108 0.0927 Analytical Me Date Analyzed Date Prepared Res 4 5 1 4 4 5 1 4 4 5	mg/L mg/L thod: 1: : RL wilt 03 7.2 31 9.4	1 1 1 S 6010B 2004-09-13 2004-09-09 Units mg/L mg/L mg/L mg/L mg/L mg/L	0.100 0.100	108 93 Prep Method: Analyzed By: Prepared By: Dilution 1 1 1 1 1 1 1 1 1	JH

Analysis: Fluoride (IC)

i.

Report Date: September 1507-1.0	r 15, 2004	Work	Order: 4083002 RUNCO	Page Num	ber: 9 of 26 Jal,NM
QC Batch: 12676 Prep Batch: 11207		Date Analyzed Date Prepared:		Analyzed Prepared 1	
D		RL			
Parameter	Flag	Result	Units	Dilution	RL
Fluoride		4.05	mg/L	10	0.200
Sample: 42497 - MW-3	1				
Analysis: NO3 (IC)		Analytical Metho	od: E 300.0	Prep Meth	nod: N/A
QC Batch: 12676		Date Analyzed:	2004-09-14	Analyzed	
Prep Batch: 11207		Date Prepared:	2004-09-14	Prepared 1	•
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Nitrate-N	3	15.2	mg/L	10	0.200
Prep Batch: 11062		Date Prepared:	2004-09-03	Prepared By:	RC
Parameter	Flag		Units	Dilution	RL
Naphthalene		<0.200	mg/L	1	0.200
Acenaphthylene		< 0.200	mg/L	1	0.200
Acenaphthene		< 0.200	mg/L	1	0.200
Fluorene		<0.200	mg/L	1	0.200
Phenanthrene		< 0.200	mg/L	1	0.200
Anthracene Fluoranthene		<0.200 <0.200	mg/L	1 1	0.200
			mg/L mg/I		0.200
yrene		<0.200	mg/L	1	0.200
Pyrene Benzo(a)anthracene		<0.200 <0.200	mg/L mg/L		0.200 0.200
^P yrene Benzo(a)anthracene Chrysene		<0.200	mg/L mg/L mg/L	1	0.200 0.200 0.200
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene		<0.200 <0.200 <0.200	mg/L mg/L	1	0.200 0.200 0.200 0.200 0.200
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene		<0.200 <0.200 <0.200 <0.200 <0.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L	1	0.200 0.200 0.200 0.200 0.200 0.200 0.200
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene ndeno(1,2,3-cd)pyrene		<0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1	0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene ndeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene		< 0.200 < 0.200 < 0.200 < 0.200 < 0.200 < 0.200 < 0.200 < 0.200 < 0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1	0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene ndeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene		<0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1	0.200 0.200 0.200 0.200 0.200 0.200 0.200
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene ndeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene		<0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 Recovery
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene ndeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	Flag Res	<0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1 1 1 1 Percent Recovery	0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 Recovery Limits
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	44	<0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <1.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1 1 1 1 Percent Recovery 55	0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 Recovery Limits 0 - 128
Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Surrogate Nitrobenzene-d5 2-Fluorobiphenyl Ferphenyl-d14	44 53	<0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200 <0.200	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1 1 1 1 1 1 Percent Recovery	0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 Recovery Limits

Sample: 42497 - MW-3

³sample ran out of holding time.

Report Date: 1507-1.0	September 15,	2004		er: 4083002 NCO	Page Number:	10 of 2 Jal,N1
Analysis: QC Batch: Prep Batch:	SO4 (IC) 12676 11207		Analytical Method: Date Analyzed: Date Prepared:	E 300.0 2004-09-14 2004-09-14	Prep Method: Analyzed By Prepared By:	: MV
Parameter		Flag	RL Result	Units	Dilution	ы
Sulfate			932	mg/L	100	RI 0.50
Sample: 424	97 - MW-3					
Analysis:	TDS		Analytical Method:	SM 2540C	Prep Method	: N//
QC Batch:	12408		······································	2004-08-31	Analyzed By	
Prep Batch:	10956		Date Prepared:	2004-08-30	Prepared By:	WI
			RL			
Parameter		Flag	Result	Units	Dilution	R
Total Dissolv	ed Solids		3185	mg/L	1	10.0
Prep Batch: Parameter Total Silver Total Arsenic Total Barium Total Cadmiu	m	Flag	Date Prepared: RL Result <0.0125 <0.0100 0.436 <0.00500	2004-09-01 Units mg/L mg/L mg/L mg/L		R 0.012 0.010 0.10 0.0050
Total Chromi			0.0110	mg/L		0.010
Total Mercury Total Lead	ÿ		<0.000200 <0.0100	mg/L mg/L		00020 0.010
Total Seleniu	m		<0.0500	mg/L mg/L		0.010
Sample: 424	98 - MW-4				Prop Mathad	: N/2
- Analysis: QC Batch:	98 - MW-4 Alkalinity 12672 11204		Analytical Method: Date Analyzed: Date Prepared:	SM 2320B 2004-09-15 2004-09-15	Prep Method: Analyzed By: Prepared By:	: RS
Analysis: QC Batch:	Alkalinity 12672		Date Analyzed:	2004-09-15	Analyzed By:	: RS
Analysis: QC Batch: Prep Batch: Parameter	Alkalinity 12672 11204	Flag	Date Analyzed: Date Prepared: RL Result	2004-09-15 2004-09-15 Units	Analyzed By:	: RS RS R
Analysis: QC Batch: Prep Batch: Parameter Hydroxide Al	Alkalinity 12672 11204 kalinity	Flag	Date Analyzed: Date Prepared: RL Result <1.00	2004-09-15 2004-09-15 Units mg/L as CaCo3	Analyzed By Prepared By: Dilution 1	: RS RS <u>R</u> 1.0
Analysis: QC Batch: Prep Batch: Parameter Hydroxide Al Carbonate All	Alkalinity 12672 11204 kalinity kalinity	Flag	Date Analyzed: Date Prepared: RL Result <1.00 <1.00	2004-09-15 2004-09-15 <u>Units</u> mg/L as CaCo3 mg/L as CaCo3	Analyzed By: Prepared By: Dilution 1 1	: RS RS <u>R</u> 1.0 1.0
Analysis: QC Batch: Prep Batch: Parameter Hydroxide Al	Alkalinity 12672 11204 kalinity kalinity Alkalinity	Flag	Date Analyzed: Date Prepared: RL Result <1.00	2004-09-15 2004-09-15 Units mg/L as CaCo3	Analyzed By Prepared By: Dilution 1	: RS RS <u>R</u> 1.0

Report Date: September 15, 200 1507-1.0	04			der: 4083002 UNCO		ber: 11 of 26 Jal,NM	
Sample: 42498 - MW-4							
Analysis: BTEX		Analytical M	lethod:	S 8021B		Prep Method	: S 5030B
QC Batch: 12396		Date Analyz		2004-08-30		Analyzed By	: MS
Prep Batch: 10946		Date Prepare	ed: 2	2004-08-30		Prepared By:	MS
		RI			_ /		
Parameter Fl Benzene	ag	Resul		Units	D1	lution	
Toluene		<0.0010 <0.0010		mg/L mg/L		1	0.00100
Ethylbenzene		< 0.0010		mg/L		1	0.00100
Xylene		< 0.0010		mg/L		1	0.00100
	*		· · · · · ·	0	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	<u>_</u>	0.110	mg/L	1	0.100	110	78.4 - 118
4-Bromofluorobenzene (4-BFB)		0.0957	mg/L	1	0.100	96	53.1 - 149
Sample: 42498 - MW-4							
Analysis: Cations		Analytical M	fethod:	S 6010B		Prep Method	: S 3005A
QC Batch: 12611		Date Analyz		2004-09-13		Analyzed By	: RR
Prep Batch: 11116		Date Prepare	ed:	2004-09-09		Prepared By:	ш
Parameter	Flag	P	RL esult	Units		Dilution	RL
Dissolved Calcium	1 145		612	mg/L		1	0.500
Dissolved Potassium			52.1	mg/L		1	0.500
Dissolved Magnesium			157	mg/L		1	0.500
Dissolved Sodium		····	500	mg/L		1	0.500
Sample: 42498 - MW-4							
Analysis: Chloride (IC)		Analyti	cal Metho	od: E 300.0		Prep Met	hod: N/A
QC Batch: 12676			nalyzed:	2004-09-14		Analyzed	
Prep Batch: 11207		Date Pr		2004-09-14		Prepared	By: MW
		, RL					
Parameter Flag	g	Result		Units	Di	lution	RL
Chloride		1200		mg/L		50	0.500
Sample: 42498 - MW-4							
Analysis: Fluoride (IC)		Analyti	cal Metho	d: E 300.0		Prep Met	hod: N/A
QC Batch: 12676		Date Ar		2004-09-14		Analyzed	
Prep Batch: 11207		Date Pro		2004-09-14		Prepared	•
		RL					
Parameter Flag	Ş	Result		Units	Di	lution	RL
Fluoride		<10.0		mg/L		50	0.200

Report Date 1507-1.0	: September 15, 2004		er: 4083002 NCO	Page Nu	mber: 12 of 26 Jal,NM
Sample: 424	498 - MW-4				
Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep M	lethod: N/A
QC Batch:	12676	Date Analyzed:	2004-09-14	Analyz	ed By: MW
Prep Batch:	11207	Date Prepared:	2004-09-14	Prepare	ed By: MW
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Nitrate-N	4	16.9	mg/L	50	0.200

Sample: 42498 - MW-4

Analysis: PAH			Analytical Method:	S 8270C		Prep Method:	S 3510C
QC Batch: 12505			Date Analyzed:	2004-09-06		Analyzed By:	RC
Prep Batch: 11062			Date Prepared:	2004-09-03		Prepared By:	RC
			RL				
Parameter		Flag	Result		Units	Dilution	RL
Naphthalene			< 0.00100		mg/L	0.005	0.200
Acenaphthylene			< 0.00100	i	mg/L	0.005	0.200
Acenaphthene			< 0.00100	I	mg/L	0.005	0.200
Fluorene			< 0.00100	1	mg/L	0.005	0.200
Phenanthrene			< 0.00100	I	mg/L	0.005	0.200
Anthracene			< 0.00100	I	mg/L	0.005	0.200
Fluoranthene			< 0.00100	1	mg/L	0.005	0.200
Pyrene			< 0.00100	I	mg/L	0.005	0.200
Benzo(a)anthracene			< 0.00100	I	mg/L	0.005	0.200
Chrysene			< 0.00100	1	mg/L	0.005	0.200
Benzo(b)fluoranthene			< 0.00100	I	mg/L	0.005	0.200
Benzo(k)fluoranthene			< 0.00100	ł	mg/L	0.005	0.200
Benzo(a)pyrene			< 0.00100	I	mg/L	0.005	0.200
Indeno(1,2,3-cd)pyrene			< 0.00100	I	mg/L	0.005	0.200
Dibenzo(a,h)anthracene			< 0.00100	ł	mg/L	0.005	0.200
Benzo(g,h,i)perylene			< 0.00100		mg/L	0.005	0.200
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Nitrobenzene-d5		0.175	mg/L	0.005	80.0	44	0 - 128
2-Fluorobiphenyl		0.229	mg/L	0.005	80.0	57	0 - 140
Terphenyl-d14		0.271		0.005	80.0	68	0 - 165

Sample: 42498 - MW-4

SO4 (IC) 12676	Date Analyzed:	2004-09-14		Prep Method: Analyzed By:	
11207	•	2004-09-14		riepaieu Dy.	141 44
Fl		Units	Dilution		RL
	1100	mg/L	50		0.500
	12676 11207	12676 Date Analyzed: 11207 Date Prepared: RL Flag Result	12676Date Analyzed: Date Analyzed: 2004-09-1411207Date Prepared: 2004-09-14RL FlagResultUnits	12676Date Analyzed: Date Prepared:2004-09-1411207Date Prepared: 2004-09-142004-09-14RLFlagResultUnitsDilution	12676Date Analyzed: Date Prepared:2004-09-14Analyzed By:11207Date Prepared: Z004-09-14Prepared By:RLFlagResultUnitsDilution

⁴sample ran out of holding time.

Report Date: September 15, 2004 1507-1.0			der: 4083002 UNCO	Page Number: 13 of 26 Jal,NM		
Sample: 42498 - MW-4						
Analysis: TDS		Analytical Method:	SM 2540C	Prep Method	l: N/A	
QC Batch: 12408		Date Analyzed:	2004-08-31	Analyzed By	: WB	
Prep Batch: 10956		Date Prepared:	2004-08-30	Prepared By	: WB	
		RL				
Parameter	Flag	Result	Units	Dilution	RL	
Total Dissolved Solids		3630	mg/L	1	10.00	

Sample: 42498 - MW-4

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Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	12521	Date Analyzed:	2004-09-07	Analyzed By:	TP
Prep Batch:	11034	Date Prepared:	2004-09-04	Prepared By:	TP
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	12571	Date Analyzed:	2004-09-09	Analyzed By:	RR
Prep Batch:	10970	Date Prepared:	2004-09-01	Prepared By:	ЛН
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Barium		0.140	mg/L	1	0.100
Total Cadmium	n	<0.00500	mg/L	1	0.00500
Total Chromiu	m	<0.0100	mg/L	1	0.0100
Total Mercury		<0.000200	mg/L	1	0.000200
Total Lead		0.0360	mg/L	1	0.0100
Total Selenium		<0.0500	mg/L	1	0.0500

Method Blank (1) QC Batch: 12396

Parameter	Flag		Res	ult	Unit	S	RL
Benzene			< 0.001	00	mg/I	J	0.001
Toluene			< 0.001	00	mg/I		0.001
Ethylbenzene			< 0.001	00	mg/I		0.001
Xylene		<0.00100		mg/L		0.001	
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0932	mg/L	1	0.100	93	70 - 130

Method Blank (1) QC Batch: 12408

Parameter	Flag	Result	Units	RL_
Total Dissolved Solids		< 10	mg/L	10

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Method Blank (1) QC Batch: 12505

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Parameter		Flag		Result		Units	RL
Naphthalene				< 0.000200		mg/L	0.2
Acenaphthylene				< 0.000200		mg/L	0.2
Acenaphthene				< 0.000200		mg/L	0.2
Fluorene				< 0.000200		mg/L	0.2
Phenanthrene				< 0.000200		mg/L	0.2
Anthracene				< 0.000200		mg/L	0.2
Fluoranthene				< 0.000200		mg/L	0.2
Pyrene				< 0.000200		mg/L	0.2
Benzo(a)anthracene				< 0.000200		mg/L	0.2
Chrysene				< 0.000200		mg/L	0.2
Benzo(b)fluoranthene				< 0.000200		mg/L	0.2
Benzo(k)fluoranthene				< 0.000200		mg/L	0.2
Benzo(a)pyrene				< 0.000200		mg/L	0.2
Indeno(1,2,3-cd)pyrene	e			<0.000200		mg/L	0.2
Dibenzo(a,h)anthracen	e			< 0.000200		mg/L	0.2
Benzo(g,h,i)perylene				<0.000200		mg/L	0.2
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Nitrobenzene-d5		0.0555	mg/L	0.001	80.0	69	0 - 128
2-Fluorobiphenyl		0.0629	mg/L	0.001	80.0	79	0 - 140
Terphenyl-d14		0.0673	mg/L	0.001	80.0	84	0 - 165

Method Blank (1) QC Batch: 12521

Parameter	Flag	Result	Units	RL
Total Mercury		<0.000200	mg/L	0.0002

Method Blank (1) QC Batch: 12571

Parameter	Flag	Result	Units	RL
Total Silver		<0.0125	mg/L	0.0125
Total Arsenic		<0.0100	mg/L	0.01
Total Barium		<0.100	mg/L	0.1
Total Cadmium		< 0.00500	mg/L	0.005
Total Chromium		< 0.0100	mg/L	0.01
Total Lead		<0.0100	mg/L	0.01
Total Selenium		<0.0500	mg/L	0.05

Method Blank (1) QC Batch: 12611

Parameter	Flag	Result	Units	RL
Dissolved Calcium		<0.500	mg/L	0.5

continued ...

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method blank continued ...

Parameter	Flag	Result	Units	RL
Dissolved Potassium		<0.500	mg/L	0.5
Dissolved Magnesium		<0.500	mg/L	0.5
Dissolved Sodium		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 12613

Parameter	Flag	Result	Units	RL
Dissolved Calcium		<0.500	mg/L	0.5
Dissolved Potassium		<0.500	mg/L	0.5
Dissolved Magnesium		<0.500	mg/L	0.5
Dissolved Sodium		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 12672

Parameter	Flag	Result	Units	RL.
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 12676

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 12676

Parameter	Flag	Result	Units	RL
Fluoride		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 12676

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

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Parameter	Flag	Result	Units	RL
Sulfate		<0.500	mg/L	0.5

Duplicate (1) QC Batch: 12408

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Total Dissolved Solids	1640	1676	mg/L	1	2	8.7

Duplicate (1) QC Batch: 12672

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	200	206	mg/L as CaCo3	1	3	20
Total Alkalinity	200	206	mg/L as CaCo3	1	3	4.8

Laboratory Control Spike (LCS-1) QC Batch: 12396

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Benzene	0.0926	0.0932	mg/L	1	0.100	< 0.000136	93	1	70 - 130	20
Toluene	0.0955	0.0969	mg/L	1	0.100	< 0.000247	96	1	70 - 130	20
Ethylbenzene	0.0992	0.100	mg/L	1	0.100	< 0.000550	99	1	70 - 130	20
Xylene	0.325	0.327	mg/L	1	0.300	< 0.00156	108	1	70 - 130	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.108	0.109	mg/L	1	0.100	108	109	70 - 130
4-Bromofluorobenzene (4-BFB)	0.106	0.107	mg/L	1	0.100	106	107	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 12505

Param		LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Naphthalene		24.3	24.6	mg/L	1	80.0	< 0.0445	30	1	22.5 - 119	20
Acenaphthylene	56	30.1	30.6	mg/L	1	80.0	< 0.0383	38	2	42.3 - 127	20
Acenaphthene	78	29.1	29.0	mg/L	1	80.0	<0.0421	36	0	38 - 125	20
Fluorene		31.9	31.5	mg/L	1	80.0	<0.0655	40	1	36.6 - 130	20
Phenanthrene		34.7	34.6	mg/L	1	80.0	< 0.0383	43	0	40.3 - 131	20

continued ...

⁵The average of the spike compounds shows that the process is in control.

⁶The average of the spike compounds shows that the process is in control. ⁷The average of the spike compounds shows that the process is in control.

⁸The average of the spike compounds shows that the process is in control.

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control spikes continued		

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Anthracene	37.2	36.8	mg/L	1	80.0	<0.0468	46	1	36.7 - 135	20
Fluoranthene	41.7	41.7	mg/L	1	80.0	< 0.0550	52	0	43.2 - 133	20
Pyrene	41.6	41.6	mg/L	1	80.0	<0.0904	52	0	48.8 - 157	20
Benzo(a)anthracene	39.4	40.2	mg/L	1	80.0	< 0.0993	49	2	40.2 - 138	20
Chrysene	30.3	30.6	mg/L	1	80.0	<0.121	38	1	5.5 - 179	20
Benzo(b)fluoranthene	38.8	38.5	mg/L	1	80.0	< 0.171	48	1	16.4 - 156	20
Benzo(k)fluoranthene	40.4	41.9	mg/L	1	80.0	< 0.0951	50	4	40.9 - 150	20
Benzo(a)pyrene	40.2	40.3	mg/L	1	80.0	< 0.135	50	0	38.7 - 149	20
Indeno(1,2,3-cd)pyrene	37.7	37.7	mg/L	1	80.0	<0.176	47	0	32 - 153	20
Dibenzo(a,h)anthracene	26.4	26.8	mg/L	1	80.0	< 0.184	33	2	0 - 202	20
Benzo(g,h,i)perylene	37.7	37.7	mg/L	1	80.0	< 0.134	47	0	39.1 - 144	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Nitrobenzene-d5	26.4	26.0	mg/L	1	80.0	33	32	0 - 128
2-Fluorobiphenyl	31.6	31.8	mg/L	1	80.0	40	40	0 - 140
Terphenyl-d14	50.0	50.6	mg/L	1	80.0	62	63	0 - 165

Laboratory Control Spike (LCS-1) QC Batch: 12521

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Total Mercury	0.000970	0.000940	mg/L	1	0.00100	<0.0000329	97	3	82 - 120	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: 12571

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Total Silver	0.125	0.123	mg/L	1	0.125	<0,000199	100	2	85 - 115	20
Total Arsenic	0.491	0.486	mg/L	1	0.500	< 0.00860	9 8	· 1	85 - 115	20
Total Barium	1.03	1.02	mg/L	1	1.00	< 0.000984	103	1	85 - 115	20
Total Cadmium	0.245	0.242	mg/L	1	0.250	< 0.000577	98	1	85 - 115	20
Total Chromium	0.104	0.103	mg/L	1	0.100	< 0.000437	104	1	85 - 115	20
Total Lead	0.503	0.498	mg/L	1	0.500	< 0.00310	101	1	85 - 115	20
Total Selenium	0.456	0.452	mg/L	1	0.500	< 0.00370	91	1	85 - 115	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: 12611

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium	106	104	mg/L	1	100	< 0.00971	106	2	85 - 115	20
Dissolved Potassium	107	102	mg/L	1	100	< 0.0297	107	5	85 - 115	20
Dissolved Magnesium	107	104	mg/L	1	100	< 0.0138	107	3	85 - 115	20
Dissolved Sodium	105	103	mg/L	1	100	< 0.0309	105	2	85 - 115	20

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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: 12613

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium	102	101	mg/L	1	100	< 0.00971	102	1	85 - 115	20
Dissolved Potassium	101	102	mg/L	1	100	< 0.0297	101	1	85 - 115	20
Dissolved Magnesium	101	101	mg/L	1	100	< 0.0138	101	0	85 - 115	20
Dissolved Sodium	102	103	mg/L	1	100	< 0.0309	102	1	85 - 115	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: 12676

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	12.3	12.6	mg/L	1	12.5	<0.337	98	2	90 - 110	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: 12676

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Fluoride	2.37	2.44	mg/L	1	2.50	< 0.0594	95	3	90 - 110	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: 12676

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Nitrate-N	2.43	2.44	mg/L	1	2.50	<0.0217	97	0	90 - 110	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: 12676

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Sulfate	12.1	12.2	mg/L	1	12.5	< 0.409	97	1	90 - 110	20

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

Matrix Spike (MS-1) QC Batch: 12521

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Total Mercury	0.000940	0.000950	mg/L	1	0.00100	< 0.0000329	94	1	80 - 120	20

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

Matrix Spike (MS-1) QC Batch: 12571

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Total Silver	0.122	0.122	mg/L	1	0.125	< 0.000199	98	0	75 - 125	20
Total Arsenic	0.486	0.483	mg/L	1	0.500	<0.00860	97	1	75 - 125	20
Total Barium	1.03	1.06	mg/L	1	1.00	< 0.000984	103	3	75 - 125	20
Total Cadmium	0.211	0.211	mg/L	1	0.250	<0.000577	84	0	75 - 125	20
Total Chromium	0.100	0.101	mg/L	1	0.100	< 0.000437	100	1	75 - 125	20
Total Lead	0.434	0.436	mg/L	1	0.500	< 0.00310	87	0	75 - 125	20
Total Selenium	0.460	0.463	mg/L	1	0.500	< 0.00370	92	1	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 12611

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium	190	188	mg/L	1	100	84.9	105	1	75 - 125	20
Dissolved Potassium	113	112	mg/L	1	100	14.4	9 9	1	75 - 125	20
Dissolved Magnesium	202	200	mg/L	1	100	95.8	106	1	75 - 125	20
Dissolved Sodium	159	157	mg/L	1	100	53.2	106	1	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 12613

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium	103	105	mg/L	1	100	0.018	103	2	75 - 125	20
Dissolved Potassium	94.0	95.2	mg/L	1	100	0.477	94	1	75 - 125	20
Dissolved Magnesium	104	105	mg/L	1	100	0.042	104	1	75 - 125	20
Dissolved Sodium	98.9	99.1	mg/L	1	100	0.269	99	0	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 12676

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	7830	7870	mg/L	500	12.5	2180	90	0	74.3 - 118	20

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

Matrix Spike (MS-1) QC Batch: 12676

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Fluoride	1210	1210	mg/L	500	2.50	74.7	91	0	84.9 - 104	20

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

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Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	1250	1240	mg/L	500	2.50	<10.8	100	1	79.6 - 109	20

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

Matrix Spike (MS-1) QC Batch: 12676

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Sulfate	7590	7620	mg/L	500	12.5	1550	97	0	77.8 - 112	20

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

Standard (ICV-1) QC Batch: 12396

Param		Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
	Flag						
Benzene		mg/L	0.100	0.0971	97	85 - 115	2004-08-30
Toluene		mg/L	0.100	0.102	102	85 - 115	2004-08-30
Ethylbenzene		mg/L	0.100	0.104	104	85 - 115	2004-08-30
Xylene		mg/L	0.300	0.341	114	85 - 115	2004-08-30

Standard (CCV-1) QC Batch: 12396

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2004-08-30
Toluene		mg/L	0.100	0.108	108	85 - 115	2004-08-30
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2004-08-30
Xylene		mg/L	0.300	0.344	115	85 - 115	2004-08-30

Standard (ICV-1) QC Batch: 12408

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Dissolved Solids		mg/L	1000	998.0	100	90 - 110	2004-08-31

Standard (CCV-1) QC Batch: 12408

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Dissolved Solids		mg/L	1000	1028	103	90 - 110	2004-08-31

Standard (CCV-1) QC Batch: 12505

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			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Naphthalene		mg/L	60.0	61.8	103	80 - 120	2004-09-06
Acenaphthylene		mg/L	60.0	61.8	103	80 - 120	2004-09-06
Acenaphthene		mg/L	60.0	62.4	104	80 - 120	2004-09-06
Fluorene		mg/L	60.0	64.5	108	80 - 120	2004-09-06
Phenanthrene		mg/L	60.0	61.8	103	80 - 120	2004-09-06
Anthracene		mg/L	60.0	62.3	104	80 - 120	2004-09-06
Fluoranthene		mg/L	60.0	61.1	102	80 - 120	2004-09-06
Pyrene		mg/L	60.0	63.4	106	80 - 120	2004-09-06
Benzo(a)anthracene		mg/L	60.0	63.7	106	80 - 120	2004-09-06
Chrysene		mg/L	60.0	64.0	107	80 - 120	2004-09-06
Benzo(b)fluoranthene		mg/L	60.0	72.0	120	80 - 120	2004-09-06
Benzo(k)fluoranthene		mg/L	60.0	60.8	101	80 - 120	2004-09-06
Benzo(a)pyrene		mg/L	60.0	63.8	106	80 - 120	2004-09-06
Indeno(1,2,3-cd)pyrene		mg/L	60.0	59.5	99	80 - 120	2004-09-06
Dibenzo(a,h)anthracene		mg/L	60.0	60.9	102	80 - 120	2004-09-06
Benzo(g,h,i)perylene		mg/L	60.0	59.5	99	80 - 120	2004-09-06
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limit
Nitrobenzene-d5		57.8	mg/L	1	60.0	96	80 - 120
2-Fluorobiphenyl		65.1	mg/L	1	60.0	108	80 - 120
Terphenyl-d14		65.2	mg/L	1	60.0	109	80 - 120

Standard (ICV-1) QC Batch: 12521

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Mercury		mg/L	0.00100	0.000970	97	80 - 120	2004-09-07

Standard (CCV-1) QC Batch: 12521

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Flag Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Mercury		mg/L	0.00100	0.00102	102	80 - 120	2004-09-07

Standard (ICV-1) QC Batch: 12571

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Silver		mg/L	0.125	0.125	100	90 - 110	2004-09-09
Total Arsenic		mg/L	1.00	1.00	100	90 - 110	2004-09-09
Total Barium		mg/L	1.00	1.01	101	90 - 110	2004-09-09
Total Cadmium		mg/L	1.00	1.01	101	90 - 110	2004-09-09
Total Chromium		mg/L	1.00	1.01	101	90 - 110	2004-09-09
Total Lead		mg/L	1.00	1.00	100	90 - 110	2004-09-09
Total Selenium		mg/L	1.00	1.00	100	90 - 110	2004-09-09

Report Date: September 15, 2004	Work Order: 4083002	Page Number: 22 of 26
1507-1.0	RUNCO	Jal,NM

Standard (CCV-1) QC Batch: 12571

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			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Silver		mg/L	0.125	0.122	98	90 - 110	2004-09-09
Total Arsenic		mg/L	1.00	0.949	95	90 - 110	2004-09-09
Total Barium		mg/L	1.00	0.913	91	90 - 110	2004-09-09
Total Cadmium		mg/L	1.00	0.960	96	90 - 110	2004-09-09
Total Chromium		mg/L	1.00	0.960	96	90 - 110	2004-09-09
Total Lead		mg/L	1.00	0.950	95	90 - 110	2004-09-09
Total Selenium		mg/L	1.00	0.940	94	90 - 110	2004-09-09

Standard (ICV-1) QC Batch: 12611

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium		mg/L	25.0	24.9	100	90 - 110	2004-09-13
Dissolved Potassium		mg/L	25.0	25.0	100	90 - 110	2004-09-13
Dissolved Magnesium		mg/L	25.0	24.9	100	90 - 110	2004-09-13
Dissolved Sodium		mg/L	25.0	24.9	100	90 - 110	2004-09-13

Standard (CCV-1) QC Batch: 12611

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium		mg/L	25.0	25.0	100	90 - 110	2004-09-13
Dissolved Potassium		mg/L	25.0	24.9	100	90 - 110	2004-09-13
Dissolved Magnesium		mg/L	25.0	24.9	100	90 - 110	2004-09-13
Dissolved Sodium		mg/L	25.0	25.0	100	90 - 110	2004-09-13

Standard (ICV-1) QC Batch: 12613

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	24.9	100	90 - 110	2004-09-13
Dissolved Potassium		mg/L	25.0	25.0	100	90 - 110	2004-09-13
Dissolved Magnesium		mg/L	25.0	24.9	100	90 - 110	2004-09-13
Dissolved Sodium		mg/L	25.0	24.9	100	90 - 110	2004-09-13

Standard (CCV-1) QC Batch: 12613

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium		mg/L	25.0	25.0	100	90 - 110	2004-09-13
Dissolved Potassium		mg/L	25.0	25.1	100	90 - 110	2004-09-13
Dissolved Magnesium		mg/L	25.0	24.8	99	90 - 110	2004-09-13
Dissolved Sodium		mg/L	25.0	25.0	100	90 - 110	2004-09-13

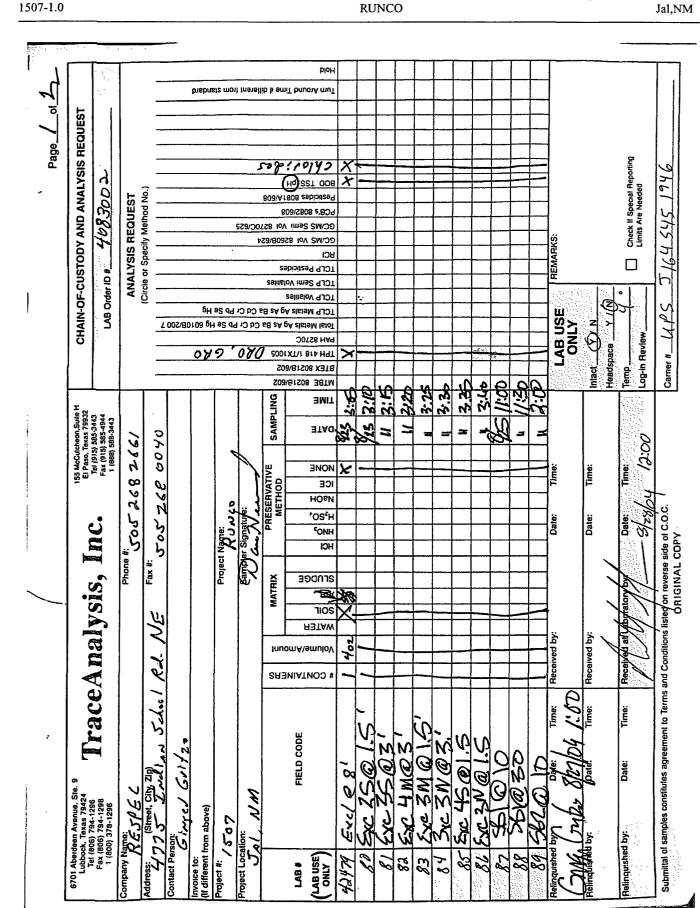
Report Date: September 15, 2004 1507-1.0				Work Orde RUI	er: 40830 NCO	002	Page N	Page Number: 23 of 26 Jal,NM		
Standard (I	(CV-1) QC	Batch: 12672								
				CCVs	CCVs	CCVs	Percent			
				True	Found	Percent	Recovery	Date		
Param	Flag	g Ur	nits	Conc.	Conc.	Recovery	Limits	Analyzed		
Total Alkalin	nity	mg/L as	s CaCo3	250	242	97	90 - 110	2004-09-15		
Standard (C	CCV-1) QC	Batch: 12672								
				CCVs	CCVs	CCVs	Percent			
				True	Found	Percent	Recovery	Date		
Param	Flag	g Un	nits	Conc.	Conc.	Recovery	Limits	Analyzed		
Total Alkalir	nity	mg/L as	CaCo3	250	246	98	90 - 110	2004-09-15		
Standard (I	CV-1) QC I	Batch: 12676								
			CCVs	CCVs		CCVs	Percent			
			True	Found		Percent	Recovery	Date		
Param	Flag	Units	Conc.	Conc.		Recovery	Limits	Analyzed		
Chloride		mg/L	12.5	12.3		98	90 - 110	2004-09-14		
aram Iuoride	Flag	Units mg/L	CCVs True Conc. 2.50	CCVs Found Conc. 2.36		CCVs Percent Recovery 94	Percent Recovery Limits 90 - 110	Date Analyzed 2004-09-14		
Standard (I(C V-1) QC H	Batch: 12676								
			CCVs	CCVs		CCVs	Percent			
			True	Found		Percent	Recovery	Date		
aram	Flag	Units	Conc.	Conc.		Recovery	Limits	Analyzed		
litrate-N		mg/L	2.50	2.38		95	90 - 110	2004-09-14		
tandard (IC	CV-1) QC E	Batch: 12676								
			CCVs	CCVs		CCVs	Percent			
			True	Found		Percent	Recovery	Date		
aram	Flag	Units	Conc.	Conc.		Recovery	Limits	Analyzed		
ulfate		mg/L	12.5	12.3		98	90 - 110	2004-09-14		
tandard (C	CV-1) QC 1	Batch: 12676								
				0011		CCVs	Percent			
			CCVs	CCVs		0013	rereent			
			CCVs True	Found		Percent	Recovery	Date		
aram Chloride	Flag	Units mg/L						Date Analyzed 2004-09-14		

Standard (CCV-1) QC Batch: 12676

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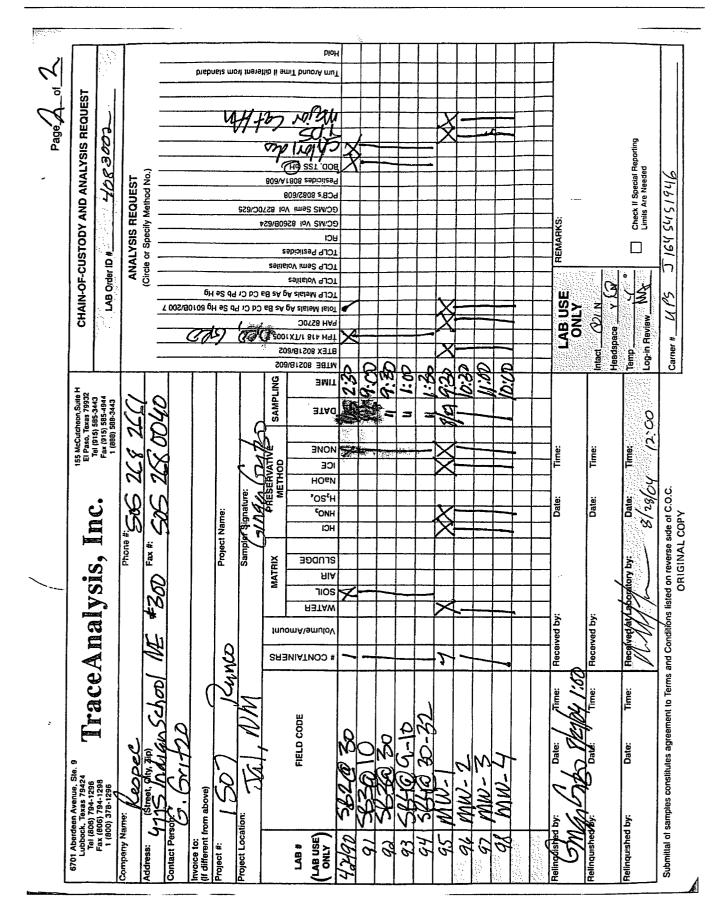
Report Date: September 15, 2004 1507-1.0				Work Order: 40 RUNCO	Page	Page Number: 24 of 26 Jal,NM		
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Fluoride	··· -	mg/L	2.50	2.33	93	90 - 110	2004-09-14	
Standard (C	(CV_1) (CV_1)	Batch 12676						
Param	CV-1) QC	Batch: 12676 Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	
Standard (C Param Nitrate-N			True	Found	Percent	Recovery		
Param Nitrate-N	Flag	Units	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed	
Param Nitrate-N	Flag	Units mg/L	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed	
Param Nitrate-N	Flag	Units mg/L	True Conc. 2.50	Found Conc. 2.43	Percent Recovery 97	Recovery Limits 90 - 110	Analyzed	
Param	Flag	Units mg/L	True Conc. 2.50 CCVs	Found Conc. 2.43 CCVs	Percent Recovery 97 CCVs	Recovery Limits 90 - 110 Percent	Analyzed 2004-09-14	

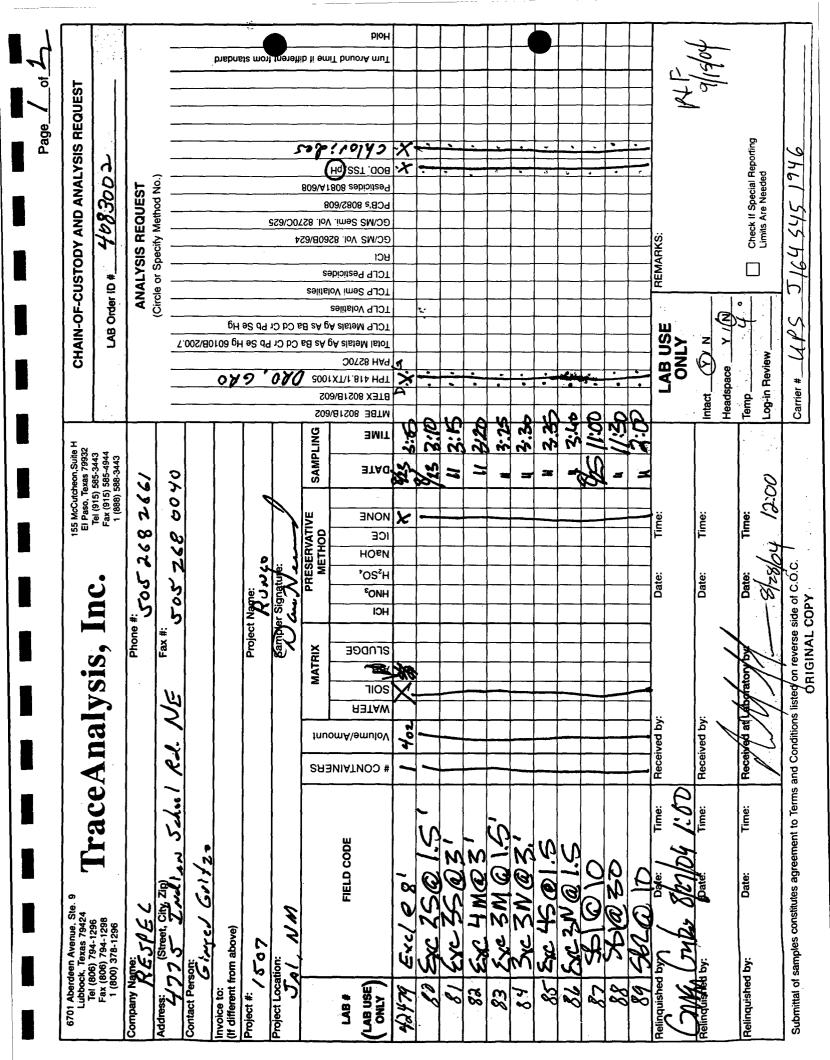


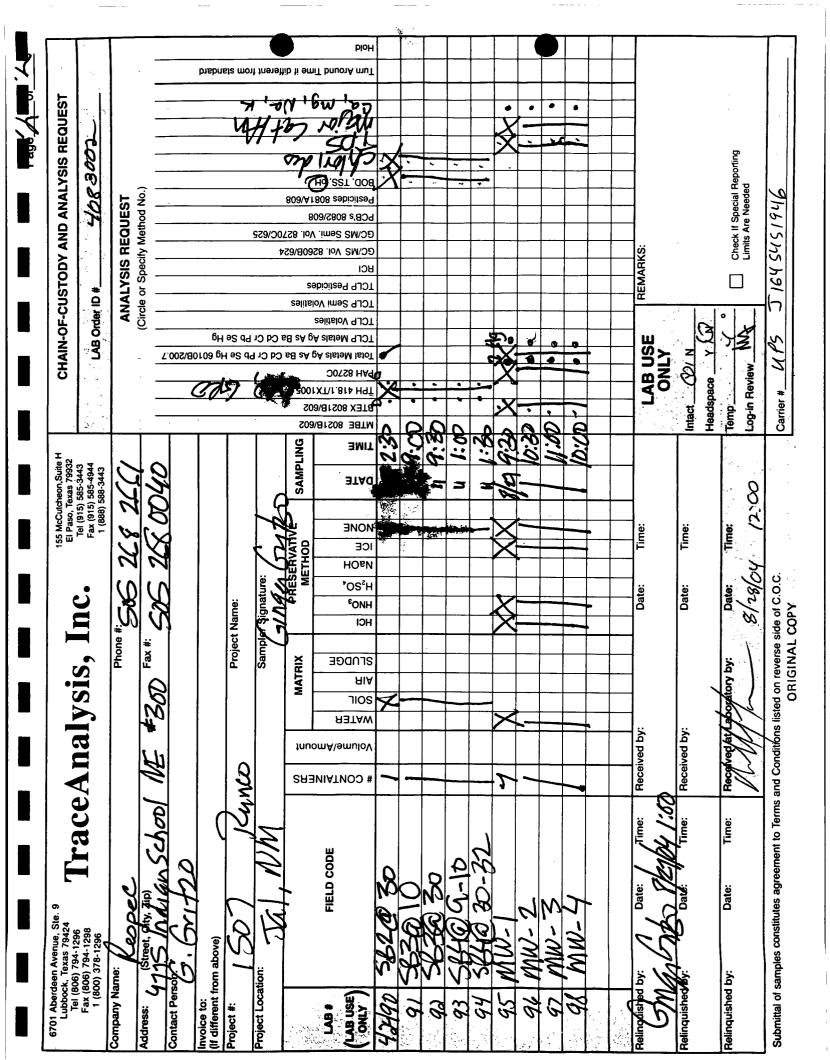
Report Date: September 15, 2004

Work Order: 4083002 RUNCO

Page Number: 25 of 26 Jal,NM Report Date: September 15, 2004 1507-1.0 Work Order: 4083002 RUNCO Page Number: 26 of 26 Jal,NM









APPENDIX H

SOIL BORE LOGS WITH WELL COMPLETION DIAGRAMS



SOIL BORING LOG

PROJECT PROJECT CLIENT N	NO.:	Runco 1507-01 OCD			R	DATE: 8/25/2004 Page 1 Of LOGGED BY:D.Henard SITE ELEV.: ~3000' DRILLING MET Monitor Well/Boring No.: MW-1/SB-1 GW DEPTH:		HAS
Depth	Blow count	PID (ppm)	Sample	Graphic	nscs	Geologic Descripton	We	ell Design
1 2 3 4		0.0			SM	Sandy loam, tan		
5 6 7	17, 26, 17	0.0 0.0				Sandy loam, tan Caliche, white, soft		
8 9 10 11 12	50 @ 4"	0.0	x			Caliche, white, gravel, soft		
13 14 15 16 17		[.] 0.0			GМ	Caliche, white, soft		
18 19 20 21 22	50 @ 6"	0.0				Caliche, white, soft, sandy	11 4 11	
23 24 25 26					SM	Buff colored sand, soft		
27 28 29 30 31	6, 17, 50	0.0	x		CL	Clayey silt, very moist, soft Clayey silt, soft, wet Static Water Level ~30'		
32 33 34 35 36 37						Well Specifications - 0.010 Screened Interval 39.5- 24.5' Sand Interval 39.5-23' Bentonite Seal 23- 21' Grout 21' to surface		
38 39 40		0.0				Clayey silt, wet		





SOIL BORING LOG

PROJECT PROJECT CLIENT N/	NO.:	Runco 1507-01 OCD				DATE: 8/25/2004 LOGGED BY G.Gritzo SITE ELEV.: ~3000' Monitor Well/Boring No.: MW-2/SB-2	Page 2 DRILLING M GW DEPTH			HAS	
Depth	Blow count	PID (ppm)	Sample	Graphic	nscs	Geologic Descripton			Wel	l Desig	jn
1 2 3		0.0	-		SM	Sandy loam, tan		4			\backslash
4 5 6 7	4, 3, 4	0.0 0.0				Sandy loam, tan Sandy loam, tan					
8 9 10 11 12	15, 20, 40	0.0	x			Caliche, white, soft					
13 14 15 16 17 18		0.0			GМ	Caliche, white, soft, gravel					
19 20 21 22	7, 22, 19	0.0				Caliche, white, soft, sandy					
23 24 25		0.0				Caliche, white, soft, sandy			-		
26 27 28 29		0.0				Clayey silt, very moist, soft			+		
30 31 32	26, 50 @ 5"	0.0	х		CL	Clayey silt, wet, soft	Static Water 30'	Level			
33 34 35 36						Well Specifications - 0.010 Screened Interval Sand Interval 40-23' Bentonite Seal 23- 21'	40- 25'		F		
37 38 39						Grout 21' to surface					
40 41		0.0				Clayey silt, wet	· · · · · · · · · · · · · · · · · · ·]	



SOIL BORING LOG

PROJECT PROJECT CLIENT N/	NO.:	Runco 1507-01 OCD			N	DATE: 8/26/2004 Page 3 Of LOGGED BY:G. Gritzo SITE ELEV.: ~3000' DRILLING METH Monitor Well/Boring No.: MW-3/SB-3 GW DEPTH:	4 HOD: ~30'	HAS
Depth	Blow count	PID (ppm)	Sample	Graphic	nscs	Geologic Descripton	We	ll Design
1 2 3		0.0			SM	Sandy loam, tan	\geq	
4 5 6 7 8	1, 2, 3	0.0 0.0			GM	Sandy loam, tan Caliche, white, soft		
9 10 11 12	35, 24, 14	0.0	x			Caliche, white, soft		
13 14 15 16 17		0.0			GМ	Caliche, white, soft		
18 19 20 21 22	2, 20, 24	0.0				Caliche, white, soft, sandy	Piere	
23 24 25 26		0.0			GМ	Caliche, white, soft, sandy Static Water <u>Level</u> ~25'		
27 28 29		0.0		÷	CL	Clayey silt, moist, soft		
23 30 31 32 33 34 35 36 37 38 39	3, 10, 19	0.0	x		CL	Clayey silt, soft, moist Well Specifications - 0.010 Screened Interval 40.5- 25.5' Sand Interval 40.5-23' Bentonite Seal 23- 21' Grout 21' to surface		



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SOIL BORING LOG

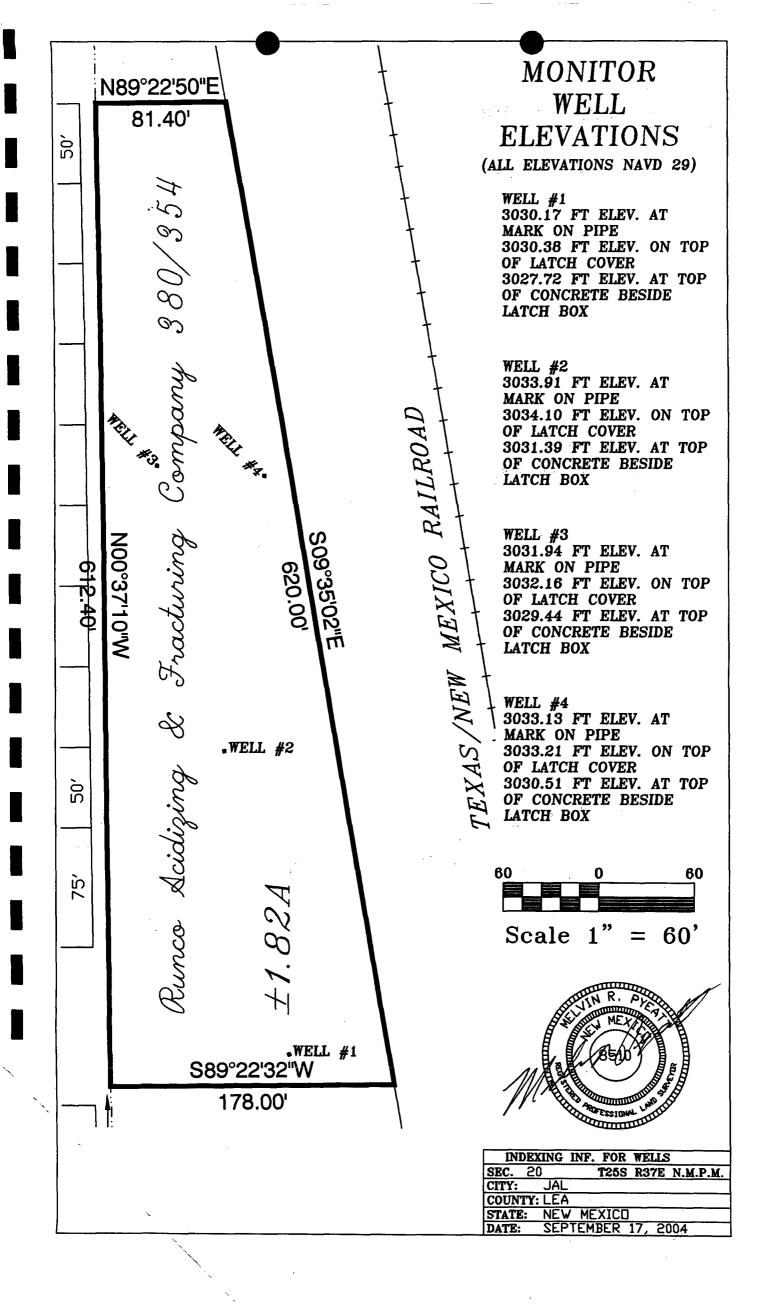
PROJECT	NO.:	Runco 1507-01 OCD			N	DATE: 8/26/2004 Page 4 Of LOGGED BY: J.Bunch SITE ELEV.: ~3000' DRILLING METHO Ionitor Well/Boring No.: MW-1/SB-1 GW DEPTH:	4 DD: ~27'	HAS
Depth	Blow count	PID (ppm)	Sample	Graphic	nscs	Geologic Descripton	We	ll Design
1 2		0.0				Sandy loam, tan	\leq	
6 7	1, 2, 2	0.0 0.0			SM	Sandy Ioam, tan Sandy Ioam, tan		
8 9 10 11 12	33, 50 @ 4*	0.0 0.0	x		GМ	Hard caliche, buff Hard caliche, buff		
12 13 14 15 16 17		0.0			GМ	Caliche, buff w/small gravels		
<u>18</u> 19	5, 2, 4	0.0 0.0			GC CL	Grayish/ochre diogenetic silty, clay (moist) w/small sparse gravels, CaCo3 concretions Clayey silt, moist, buff		
21 22 23 24 25 26 27	-, -, -							
27 28 29		0.0			CL	Silty clay, tan, moist to very moist -27 ft		
	5, 18, 14	0.0	х			2" recovery tan, silty clay, very moist		
32 33		0.0				Clayey silt, tan, saturated		
34 35 36 37 38 39 40		0.0			GΜ	Hard caliche Well Specifications - 0.010 Screened Interval 41- 26' Sand Interval 41-25' Bentonite Seal 25-22.5' Grout 22.5' to surface		
41 42		0.0 0.0				Soft zone Hard caliche		

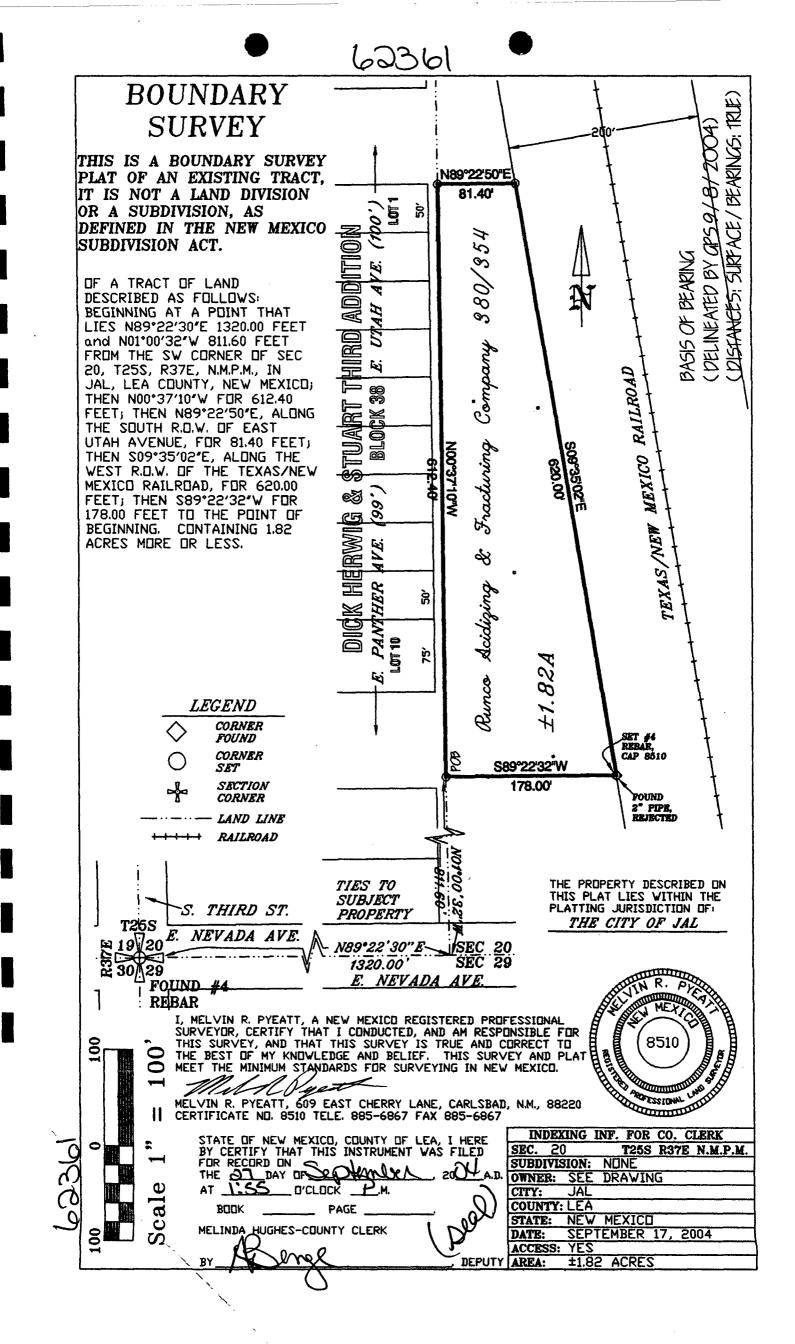
APPENDIX I

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SURVEY RESULTS





Report Date: April 29, 2004 Runco Mud Work Order: 4042127 Runco Page Number: 1 of 15 Jal,New Mexico

Summary Report

Ed Martin OCD-Santa Fe 1220 S. Saint Francis Dr. Santa Fe, NM 87505 Report Date: April 29, 2004

Work Order: 4042127

Project Location:Jal,New MexicoProject Name:RuncoProject Number:Runco Mud

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
32002	0420041004 (Tank 1)	soil	2004-04-20	00:00	2004-04-21
32003	0420041008 (Tank 2)	soil	2004-04-20	00:00	2004-04-21
32004	0420041015 (Tank 3)	soil	2004-04-20	00:00	2004-04-21
32005	0420041032 (Tank 4)	soil	2004-04-20	00:00	2004-04-21
32006	0420041025 (Tank 5)	soil	2004-04-20	00:00	2004-04-21
32007	0420041036 (Tank 6)	soil	2004-04-20	00:00	2004-04-21
32008	0420041050 (White 7)	soil	2004-04-20	00:00	2004-04-21
32009	0420041100 (Tank 7)	soil	2004-04-20	00:00	2004-04-21
32010	0420041105 (Tank 8)	soil	2004-04-20	00:00	2004-04-21
32011	0420041047 (Tank 11)	soil	2004-04-20	00:00	2004-04-21
32012	0420041125 (Pile)	soil	2004-04-20	00:00	2004-04-21

Sample: 32002 - 0420041004 (Tank 1)

Param	Flag	Result	Units	\mathbf{RL}
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	$\rm mm/yr$	0.00
$_{\rm pH}$		8.40	s.u.	0.00
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	mg/L	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.100
beta-BHC		< 0.00250	mg/L	0.100
delta-BHC		< 0.00250	mg/L	0.100
Heptachlor		< 0.00250	mg/L	0.100
Aldrin		< 0.00250	mg/L	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.100
gamma-Chlordane		< 0.00250	mg/L	0.100
alpha-Chlordane		< 0.00250	mg/L	0.100
Endosulfan I		< 0.00250	mg/L	0.100
p,p-DDE		< 0.00250	mg/L	0.100
Dieldrin		< 0.00250	mg/L	0.100
,				continued

continued ...

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Report Date: April 29, 2004 Runco Mud Work Order: 4042127 Runco Page Number: 2 of 15 Jal,New Mexico

sample 32002 continued ...

Param	Flag	Result	\mathbf{Units}	RL
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	m mg/L	0.100
Endosulfan II		< 0.00250	$\mathrm{mg/L}$	0.100
p,p-DDT		< 0.00250	$\mathrm{mg/L}$	0.100
Endrin aldehyde		< 0.00250	$\mathrm{mg/L}$	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.100
Methoxychlor		< 0.00250	$\mathrm{mg/L}$	0.100
Endrin Ketone		< 0.00250	$\mathrm{mg/L}$	0.100
Toxaphene		< 0.0250	mg/L	1.00
Technical Chlordane		< 0.0250	mg/L	1.00
Pyridine		< 0.0500	mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	10.0
o-Cresol		< 0.0500	mg/L	10.0
m,p-Cresol		< 0.0500	mg/L	10.0
Hexachloroethane		< 0.0500	mg/L	10.0
Nitrobenzene		< 0.0500	mg/L	10.0
Hexachlorobutadiene		< 0.0500	mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	10.0
Hexachlorobenzene		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	10.0
Pentachlorophenol		< 0.0500	mg/L	10.0
TCLP Silver		< 0.125	mg/L	0.125
TCLP Arsenic		< 0.100	$\mathrm{mg/L}$	0.100
TCLP Barium		0.759	mg/L	0.100
TCLP Cadmium		0.100	mg/L	0.0500
TCLP Chromium		< 0.100	$\mathrm{mg/L}$	0.100
TCLP Mercury		< 0.0100	$\mathrm{mg/L}$	0.0100
TCLP Lead		0.216	m mg/L	0.100
TCLP Selenium		< 0.500	m mg/L	0.500
Vinyl Chloride		< 0.0500	$\mathrm{mg/L}$	0.00100
1,1-Dichloroethene		< 0.0500	m mg/L	0.00100
2-Butanone (MEK)		< 0.500	m mg/L	0.0100
Chloroform		< 0.0500	m mg/L	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	m mg/L	0.00100
Benzene		< 0.0500	m mg/L	0.00100
Carbon Tetrachloride		< 0.0500	m mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	m mg/L	0.00100
Chlorobenzene		< 0.0500	mg/L	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32003 - 0420041008 (Tank 2)

Param	Flag	Result	Units	\mathbf{RL}
Reactivity	no	n-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity	non	-corrosive	mm/yr	0.00
pH		8.40	s.u.	0.00

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Report Date: April 29, 2004 Runco Mud Work Order: 4042127 Runco Page Number: 3 of 15 Jal,New Mexico

sample 32003 continued ...

Param	Flag	Result	Units	\mathbf{RL}
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	$\mathrm{mg/L}$	0.100
gamma-BHC (Lindane)		< 0.00250	m mg/L	. 0.100
beta-BHC		< 0.00250	m mg/L	0.100
delta-BHC		< 0.00250	m mg/L	0.100
Heptachlor		< 0.00250	m mg/L	0.100
Aldrin		< 0.00250	$\mathrm{mg/L}$	0.100
Heptachlor Epoxide		< 0.00250	m mg/L	0.100
gamma-Chlordane		< 0.00250	$\mathrm{mg/L}$	0.100
alpha-Chlordane		< 0.00250	m mg/L	0.100
Endosulfan I		< 0.00250	$\mathrm{mg/L}$	0.100
p,p-DDE		< 0.00250	m mg/L	0.100
Dieldrin		< 0.00250	$\mathrm{mg/L}$	0.100
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	$\mathrm{mg/L}$	0.100
Endosulfan II		< 0.00250	mg/L	0.100
p,p-DDT		< 0.00250	mg/L	0.100
Endrin aldehyde		< 0.00250	mg/L	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.100
Methoxychlor		< 0.00250	mg/L	0.100
Endrin Ketone		< 0.00250	mg/L	0.100
Toxaphene		< 0.0250	mg/L	1.00
Technical Chlordane		< 0.0250	mg/L	1.00
Pyridine		< 0.0500	mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	10.0
o-Cresol		< 0.0500	mg/L	. 10.0
m,p-Cresol		< 0.0500	mg/L	10.0
Hexachloroethane		< 0.0500	mg/L	10.0
Nitrobenzene		< 0.0500	mg/L	10.0
Hexachlorobutadiene		< 0.0500	mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	10.0
Hexachlorobenzene		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	10.0
Pentachlorophenol		< 0.0500	mg/L	10.0
TCLP Silver		< 0.125	mg/L	0.125
TCLP Arsenic		< 0.100	mg/L	0.100
TCLP Barium		0.495	mg/L	0.100
TCLP Cadmium		0.116	mg/L	0.0500
TCLP Chromium		< 0.100	mg/L	0.100
TCLP Mercury		< 0.0100	mg/L	0.0100
TCLP Lead		1.25	mg/L	0.100
TCLP Selenium		< 0.500	mg/L	0.500
Vinyl Chloride		< 0.0500	mg/L	0.00100
1,1-Dichloroethene		< 0.0500	mg/L	0.00100
2-Butanone (MEK)		< 0.500	mg/L	0.0100
Chloroform		< 0.0500	mg/L	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	0.00100
Benzene		< 0.0500	mg/L	0.00100
Carbon Tetrachloride		< 0.0500	mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L	0.00100
				continued

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sample 32003 continued				
Param	Flag	Result	Units	\mathbf{RL}
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100
Chlorobenzene		< 0.0500	mg/L	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32004 - 0420041015 (Tank 3)

Param	Flag	Result	Units	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	m mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	m mg/Kg	2.50
Corrosivity	:	non-corrosive	m mm/yr	0.00
pH		8.40	s.u.	0.00
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	mg/L	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.100
beta-BHC		< 0.00250	mg/L	0.100
delta-BHC		< 0.00250	mg/L	0.100
Heptachlor		< 0.00250	mg/L	0.100
Aldrin		< 0.00250	mg/L	0.100
Heptachlor Epoxide		<0.00250	mg/L	0.100
gamma-Chlordane		<0.00250	mg/L	0.100
alpha-Chlordane		<0.00250	mg/L	0.100
Endosulfan I		<0.00250		0.100
p,p-DDE			mg/L	0.100
Dieldrin		<0.00250	mg/L	
		<0.00250	mg/L	0.100
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	mg/L	0.100
Endosulfan II		< 0.00250	m mg/L	0.100
p,p-DDT		< 0.00250	mg/L	0.100
Endrin aldehyde		< 0.00250	mg/L	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.100
Methoxychlor		< 0.00250	m mg/L	0.100
Endrin Ketone		< 0.00250	m mg/L	0.100
Toxaphene		< 0.0250	m mg/L	1.00
Technical Chlordane		< 0.0250	m mg/L	1.00
Pyridine		< 0.0500	m mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	m mg/L	10.0
o-Cresol		< 0.0500	mg/L	10.0
m,p-Cresol		< 0.0500	mg/L	10.0
Hexachloroethane		< 0.0500	mg/L	10.0
Nitrobenzene		< 0.0500	mg/L	10.0
Hexachlorobutadiene		< 0.0500	mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	10.0
Hexachlorobenzene		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	10.0
Pentachlorophenol		< 0.0500		10.0
TCLP Silver			mg/L mg/I	0.125
TCLP Silver		<0.125	mg/L	
		<0.100	mg/L	0.100
TCLP Barium		0.712	mg/L	$\frac{0.100}{continued \dots}$

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sample 32004 continued							
Param	Flag	Result	Units	RL			
TCLP Cadmium		0.142	mg/L	0.0500			
TCLP Chromium		0.111	mg/L	0.100			
TCLP Mercury		< 0.0100	mg/L	0.0100			
TCLP Lead		0.867	mg/L	0.100			
TCLP Selenium		< 0.500	mg/L	0.500			
Vinyl Chloride		< 0.0500	mg/L	0.00100			
1,1-Dichloroethene		< 0.0500	mg/L	0.00100			
2-Butanone (MEK)		< 0.500	mg/L	0.0100			
Chloroform		< 0.0500	mg/L	0.00100			
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	0.00100			
Benzene		< 0.0500	mg/L	0.00100			
Carbon Tetrachloride		< 0.0500	mg/L	0.00100			
Trichloroethene (TCE)		< 0.0500	mg/L	0.00100			
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100			
Chlorobenzene		< 0.0500	mg/L	0.00100			
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100			

Sample: 32005 - 0420041032 (Tank 4)

Param	Flag	Result	Units	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	m mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	$\rm mm/yr$	0.00
pH		10.0	s.u.	0.00
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	m mg/L	0.100
gamma-BHC (Lindane)		< 0.00250	m mg/L	0.100
beta-BHC		< 0.00250	m mg/L	0.100
delta-BHC		< 0.00250	mg/L	0.100
Heptachlor		< 0.00250	$\mathrm{mg/L}$	0.100
Aldrin		< 0.00250	mg/L	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.100
gamma-Chlordane		< 0.00250	mg/L	0.100
alpha-Chlordane		< 0.00250	mg/L	0.100
Endosulfan I		< 0.00250	mg/L	0.100
p,p-DDE		< 0.00250	mg/L	0.100
Dieldrin		< 0.00250	mg/L	0.100
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	mg/L	0.100
Endosulfan II		< 0.00250	mg/L	0.100
p,p-DDT		< 0.00250	mg/L	0.100
Endrin aldehyde		< 0.00250	mg/L	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.100
Methoxychlor		< 0.00250	mg/L	0.100
Endrin Ketone		< 0.00250	mg/L	0.100
Toxaphene		< 0.0250	mg/L	1.00
Technical Chlordane		< 0.0250	mg/L	1.00
Pyridine		< 0.0500	mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	10.0
o-Cresol		< 0.0500	mg/L	10.0
m,p-Cresol		< 0.0500	mg/L	10.0

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sample 32005 continued ...

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Param	Flag	Result	\mathbf{Units}	\mathbf{RL}
Hexachloroethane		< 0.0500	mg/L	10.0
Nitrobenzene		< 0.0500	m mg/L	10.0
Hexachlorobutadiene		< 0.0500	m mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	m mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	m mg/L	10.0
Hexachlorobenzene		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	m mg/L	10.0
Pentachlorophenol		< 0.0500	m mg/L	10.0
TCLP Silver		< 0.125	m mg/L	0.125
TCLP Arsenic		<0.100	m mg/L	0.100
TCLP Barium		1.35	m mg/L	0.100
TCLP Cadmium		0.146	m mg/L	0.0500
TCLP Chromium		< 0.100	m mg/L	0.100
TCLP Mercury		< 0.0100	m mg/L	0.0100
TCLP Lead		0.650	m mg/L	0.100
TCLP Selenium		< 0.500	m mg/L	0.500
Vinyl Chloride		< 0.0500	m mg/L	0.00100
1,1-Dichloroethene		< 0.0500	m mg/L	0.00100
2-Butanone (MEK)		< 0.500	m mg/L	0.0100
Chloroform		< 0.0500	m mg/L	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	m mg/L	0.00100
Benzene		< 0.0500	m mg/L	0.00100
Carbon Tetrachloride		< 0.0500	$\mathrm{mg/L}$	0.00100
Trichloroethene (TCE)		< 0.0500	m mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	m mg/L	0.00100
Chlorobenzene		< 0.0500	m mg/L	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32006 - 0420041025 (Tank 5)

Param	Flag	Result	Units	\mathbf{RL}
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	m mm/yr	0.00
pH		8.20	s.u.	0.00
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	$\mathrm{mg/L}$	0.100
gamma-BHC (Lindane)		0.00550	$\mathrm{mg/L}$	0.100
beta-BHC		< 0.00250	mg/L	0.100
delta-BHC		< 0.00250	mg/L	0.100
Heptachlor		< 0.00250	mg/L	0.100
Aldrin		< 0.00250	$\mathrm{mg/L}$	0.100
Heptachlor Epoxide		< 0.00250	m mg/L	0.100
gamma-Chlordane		< 0.00250	mg/L	0.100
alpha-Chlordane		< 0.00250	$\mathrm{mg/L}$	0.100
Endosulfan I		< 0.00250	$\mathrm{mg/L}$	0.100
p,p-DDE		< 0.00250	m mg/L	0.100
Dieldrin		< 0.00250	m mg/L	0.100
Endrin		< 0.00250	$\mathrm{mg/L}$	0.100
				continued

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sample 32006 continued ...

Param	Flag	\mathbf{Result}	Units	\mathbf{RL}
p,p-DDD		< 0.00250	m mg/L	0.100
Endosulfan II		< 0.00250	m mg/L	0.100
p,p-DDT		< 0.00250	m mg/L	0.100
Endrin aldehyde		< 0.00250	m mg/L	0.100
Endosulfan sulfate		< 0.00250	m mg/L	0.100
Methoxychlor		< 0.00250	m mg/L	0.100
Endrin Ketone		< 0.00250	m mg/L	0.100
Toxaphene		< 0.0250	$\mathrm{mg/L}$	1.00
Technical Chlordane		< 0.0250	m mg/L	1.00
Pyridine		< 0.0500	m mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	m mg/L	10.0
o-Cresol		< 0.0500	m mg/L	10.0
m,p-Cresol		<0.0500	m mg/L	10.0
Hexachloroethane		< 0.0500	m mg/L	10.0
Nitrobenzene		< 0.0500	m mg/L	10.0
Hexachlorobutadiene		< 0.0500	m mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	m mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	m mg/L	10.0
Hexachlorobenzene		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	m mg/L	10.0
Pentachlorophenol		< 0.0500	m mg/L	10.0
TCLP Silver		< 0.125	m mg/L	0.125
TCLP Arsenic		< 0.100	m mg/L	0.100
TCLP Barium		0.619	m mg/L	0.100
TCLP Cadmium		0.254	m mg/L	0.0500
TCLP Chromium		< 0.100	m mg/L	0.100
TCLP Mercury		< 0.0100	mg/L	0.0100
TCLP Lead		1.74	$\mathrm{mg/L}$	0.100
TCLP Selenium		< 0.500	$\mathrm{mg/L}$	0.500
Vinyl Chloride		< 0.0500	mg/L	0.00100
1,1-Dichloroethene		< 0.0500	mg/L	0.00100
2-Butanone (MEK)		< 0.500	mg/L	0.0100
Chloroform		< 0.0500	m mg/L	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	m mg/L	0.00100
Benzene		< 0.0500	mg/L	0.00100
Carbon Tetrachloride		< 0.0500	mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	m mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100
Chlorobenzene		< 0.0500	$\mathrm{mg/L}$	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32007 - 0420041036 (Tank 6)

Param	Flag	\mathbf{Result}	Units	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	m mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	mm/yr	0.00
pH		8.10	s.u.	0.00
Ignitability		non-ignitable		0.00
				continued

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sample 32007 continued ...

Param	Flag	\mathbf{Result}	Units	RL
alpha-BHC		< 0.00250	mg/L	0.100
gamma-BHC (Lindane)		< 0.00250	$\mathrm{mg/L}$	0.100
beta-BHC		< 0.00250	$\mathrm{mg/L}$	0.100
delta-BHC		< 0.00250	$\mathrm{mg/L}$	0.100
Heptachlor		< 0.00250	$\mathrm{mg/L}$	0.100
Aldrin		< 0.00250	mg/L	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.100
gamma-Chlordane		< 0.00250	mg/L	0.100
alpha-Chlordane		< 0.00250	mg/L	0.100
Endosulfan I		< 0.00250	mg/L	0.100
p,p-DDE		< 0.00250	mg/L	0.100
Dieldrin		< 0.00250	mg/L	0.100
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	mg/L	0.100
Endosulfan II		< 0.00250	mg/L	0.100
p,p-DDT		< 0.00250	mg/L	0.100
Endrin aldehyde		< 0.00250	mg/L	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.100
Methoxychlor		< 0.00250	mg/L	0.100
Endrin Ketone		< 0.00250	mg/L	0.100
Toxaphene		< 0.0250	mg/L	1.00
Technical Chlordane		<0.0250	mg/L	1.00
Pyridine		<0.0500	mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	10.0
o-Cresol		< 0.0500	mg/L	10.0
m,p-Cresol		<0.0500	mg/L	10.0
Hexachloroethane		<0.0500	mg/L	10.0
Nitrobenzene		<0.0500	mg/L	10.0
Hexachlorobutadiene		<0.0500	mg/L	10.0
2,4,6-Trichlorophenol		<0.0500	mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	10.0
Hexachlorobenzene		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500		10.0
Pentachlorophenol		<0.0500	mg/L mg/I	10.0
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.125	mg/L mg/I	0.120
TCLP Barium			mg/L	0.100
TCLP Cadmium		$\begin{array}{c} 0.848\\ 0.0520\end{array}$	mg/L mg/I	0.0500
			mg/L mg/I	0.0300
TCLP Chromium		<0.100	mg/L	0.0100
TCLP Mercury		< 0.0100	mg/L	
TCLP Lead		0.108	mg/L	0.100
TCLP Selenium		< 0.500	mg/L	0.500
Vinyl Chloride		< 0.0500	mg/L	0.00100
1,1-Dichloroethene		< 0.0500	mg/L mg/I	0.00100
2-Butanone (MEK)		< 0.500	mg/L	0.0100
Chloroform		< 0.0500	mg/L	0.00100
1,2-Dichloroethane (EDC)		<0.0500	mg/L	0.00100
Benzene		< 0.0500	mg/L	0.00100
Carbon Tetrachloride		<0.0500	mg/L	0.00100
Trichloroethene (TCE)		<0.0500	mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100 <u>continued</u>

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sample 32007 continued					
Param	Flag	Result	Units	\mathbf{RL}	
Chlorobenzene		< 0.0500	mg/L	0.00100	
1,4-Dichlorobenzene (para)		< 0.0500	$\mathrm{mg/L}$	0.00100	

Sample: 32008 - 0420041050 (White 7)

Param	Flag	Result	Units	RL
Reactivity	non-r	reactive		0.00
Hydrogen Sulfide		<10.0	m mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	m mg/Kg	2.50
Corrosivity	non-co	orrosive	m mm/yr	0.00
pH		12.2	s.u.	0.00
Ignitability	non-ig	nitable		0.00
alpha-BHC	<	0.00250	mg/L	0.100
gamma-BHC (Lindane)	<(0.00250	mg/L	0.100
beta-BHC	<(0.00250	mg/L	0.100
delta-BHC	<	0.00250	mg/L	0.100
Heptachlor	<	0.00250	mg/L	0.100
Aldrin	<	0.00250	mg/L	0.100
Heptachlor Epoxide		0.00250	mg/L	0.100
gamma-Chlordane		0.00250	mg/L	0.100
alpha-Chlordane		0.00250	mg/L	0.100
Endosulfan I		0.00250	mg/L	0.100
p,p-DDE		0.00250	mg/L	0.100
Dieldrin		0.00250	mg/L	0.100
Endrin		0.00250	mg/L	0.100
p,p-DDD		0.00250	mg/L	0.100
Endosulfan II		0.00250	mg/L	0.100
p,p-DDT		0.00250	mg/L	0.100
Endrin aldehyde		0.00250	mg/L	0.100
Endosulfan sulfate		0.00250	mg/L	0.100
Methoxychlor		0.00250	mg/L	0.100
Endrin Ketone		0.00250	mg/L	0.100
Toxaphene		< 0.0250	mg/L	1.00
Technical Chlordane		<0.0250	mg/L	1.00
Pyridine		<0.0500	mg/L	10.0
1,4-Dichlorobenzene (para)		<0.0500	mg/L	10.0
o-Cresol		<0.0500	mg/L	10.0
m,p-Cresol		<0.0500	mg/L	10.0
Hexachloroethane		<0.0500	mg/L	10.0
Nitrobenzene		<0.0500	mg/L	10.0
Hexachlorobutadiene		<0.0500	mg/L	10.0
2,4,6-Trichlorophenol		<0.0500		10.0
2,4,5-Trichlorophenol		<0.0500	m mg/L m mg/L	10.0
2,4-Dinitrotolyene		<0.0500		10.0
2,4-Dintrotoidene 2,4-Dichlorophenoxyacetic acid		<0.0500	mg/L	
			mg/L	10.0
Hexachlorobenzene		<0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	10.0
Pentachlorophenol	<	< 0.0500	mg/L	10.0
TCLP Silver		< 0.125	mg/L	0.125
TCLP Arsenic		0.177	mg/L	0.100
TCLP Barium		0.657	mg/L	0.100
TCLP Cadmium	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	< 0.0500	mg/L	0.0500 continued

Report Date: April 29, 2004 Runco Mud	Work Order: 4042127 Runco		Page Number: 10 of 15 Jal,New Mexico	
sample 32008 continued				
Param	Flag	Result	\mathbf{Units}	\mathbf{RL}
TCLP Chromium		< 0.100	mg/L	0.100
TCLP Mercury		< 0.0100	mg/L	0.0100
TCLP Lead		< 0.100	mg/L	0.100
TCLP Selenium		< 0.500	mg/L	0.500
Vinyl Chloride		< 0.0500	mg/L	0.00100
1,1-Dichloroethene		< 0.0500	mg/L	0.00100
2-Butanone (MEK)		< 0.500	mg/L	0.0100
Chloroform		< 0.0500	mg/L	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	0.00100
Benzene		< 0.0500	mg/L	0.00100
Carbon Tetrachloride		< 0.0500	mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100
Chlorobenzene		< 0.0500	mg/L	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32009 - 0420041100 (Tank 7)

Param	Flag	\mathbf{Result}	Units	\mathbf{RL}
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	$\rm mm/yr$	0.00
pH		8.60	s.u.	0.00
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	m mg/L	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.100
beta-BHC		< 0.00250	mg/L	0.100
delta-BHC		< 0.00250	mg/L	0.100
Heptachlor		< 0.00250	mg/L	0.100
Aldrin		< 0.00250	mg/L	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.100
gamma-Chlordane		< 0.00250	mg/L	0.100
alpha-Chlordane		< 0.00250	mg/L	0.100
Endosulfan I		< 0.00250	mg/L	0.100
p,p-DDE		< 0.00250	mg/L	0.100
Dieldrin		< 0.00250	mg/L	0.100
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	mg/L	0.100
Endosulfan II		< 0.00250	mg/L	0.100
p,p-DDT		< 0.00250	mg/L	0.100
Endrin aldehyde		< 0.00250	mg/L	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.100
Methoxychlor		< 0.00250	mg/L	0.100
Endrin Ketone		< 0.00250	mg/L	0.100
Toxaphene		< 0.0250	mg/L	1.00
Technical Chlordane		< 0.0250	mg/L	1.00
Pyridine		< 0.0500	mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	m mg/L	10.0
o-Cresol		< 0.0500	mg/L	10.0
m,p-Cresol		< 0.0500	$\mathrm{mg/L}$	10.0
Hexachloroethane		< 0.0500	mg/L	10.0
				continued

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Report Date: April 29, 2004 Runco Mud	Work Order Run		-	aber: 11 of 15 l,New Mexico
sample 32009 continued				
Param	Flag	Result	Units	RL
Nitrobenzene		< 0.0500	mg/L	10.0
Hexachlorobutadiene		< 0.0500	m mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	$\mathrm{mg/L}$	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	10.0
Hexachlorobenzene		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	10.0
Pentachlorophenol		< 0.0500	m mg/L	10.0
TCLP Silver		< 0.125	mg/L	0.125
TCLP Arsenic		< 0.100	mg/L	0.100
TCLP Barium		1.59	mg/L	0.100
TCLP Cadmium		< 0.0500	mg/L	0.0500
TCLP Chromium		< 0.100	mg/L	0.100
TCLP Mercury		< 0.0100	mg/L	0.0100
TCLP Lead		< 0.100	mg/L	0.100
TCLP Selenium		< 0.500	mg/L	0.500
Vinyl Chloride		< 0.0500	mg/L	0.00100
1,1-Dichloroethene		< 0.0500	mg/L	0.00100
2-Butanone (MEK)		< 0.500	$\mathrm{mg/L}$	0.0100
Chloroform		< 0.0500	mg/L	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	0.00100
Benzene		< 0.0500	mg/L	0.00100
Carbon Tetrachloride		< 0.0500	mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	m mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100
Chlorobenzene		< 0.0500	mg/L	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32010 - 0420041105 (Tank 8)

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Param	Flag	\mathbf{Result}	Units	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	$\rm mm/yr$	0.00
pH		9.10	s.u.	0.00
Ignitability		${\bf non-ignitable}$		0.00
alpha-BHC		< 0.00250	m mg/L	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.100
beta-BHC		< 0.00250	mg/L	0.100
delta-BHC		< 0.00250	mg/L	0.100
Heptachlor		< 0.00250	$\mathrm{mg/L}$	0.100
Aldrin		< 0.00250	$\mathrm{mg/L}$	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.100
gamma-Chlordane		< 0.00250	mg/L	0.100
alpha-Chlordane		< 0.00250	mg/L	0.100
Endosulfan I		< 0.00250	mg/L	0.100
p,p-DDE		< 0.00250	mg/L	0.100
Dieldrin		< 0.00250	$\mathrm{mg/L}$	0.100
Endrin		< 0.00250	$\mathrm{mg/L}$	0.100
p,p-DDD		< 0.00250	mg/L	0.100
				continued

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sample 32010 continued ...

Param	Flag	Result	Units	RL
Endosulfan II		< 0.00250	mg/L	0.100
p,p-DDT		< 0.00250	m mg/L	0.100
Endrin aldehyde		< 0.00250	m mg/L	0.100
Endosulfan sulfate		< 0.00250	m mg/L	0.100
Methoxychlor		< 0.00250	m mg/L	0.100
Endrin Ketone		< 0.00250	m mg/L	0.100
Toxaphene		< 0.0250	m mg/L	1.00
Technical Chlordane		< 0.0250	m mg/L	1.00
Pyridine		< 0.0500	m mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	m mg/L	10.0
o-Cresol		< 0.0500	mg/L	10.0
m,p-Cresol		< 0.0500	m mg/L	10.0
Hexachloroethane		< 0.0500	m mg/L	10.0
Nitrobenzene		< 0.0500	m mg/L	10.0
Hexachlorobutadiene		< 0.0500	mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	10.0
Hexachlorobenzene		< 0.0500	mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	10.0
Pentachlorophenol		< 0.0500	mg/L	10.0
TCLP Silver		< 0.125	mg/L	0.125
TCLP Arsenic		< 0.100	mg/L	0.100
TCLP Barium		8.91	mg/L	0.100
TCLP Cadmium		< 0.0500	$\mathrm{mg/L}$	0.0500
TCLP Chromium		< 0.100	mg/L	0.100
TCLP Mercury		< 0.0100	mg/L	0.0100
TCLP Lead		< 0.100	m mg/L	0.100
TCLP Selenium		< 0.500	m mg/L	0.500
Vinyl Chloride		< 0.0500	m mg/L	0.00100
1,1-Dichloroethene		< 0.0500	m mg/L	0.00100
2-Butanone (MEK)		< 0.500	m mg/L	0.0100
Chloroform		< 0.0500	$\mathrm{mg/L}$	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	0.00100
Benzene		< 0.0500	$\mathrm{mg/L}$	0.00100
Carbon Tetrachloride		< 0.0500	m mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	$\mathrm{mg/L}$	0.00100
Tetrachloroethene (PCE)		< 0.0500	$\mathrm{mg/L}$	0.00100
Chlorobenzene		< 0.0500	$\mathrm{mg/L}$	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100

Sample: 32011 - 0420041047 (Tank 11)

Param	Flag	Result	\mathbf{Units}	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		$<\!2.50$	mg/Kg	2.50
Corrosivity		non-corrosive	mm/yr	0.00
pH		8.50	s.u.	0.00
Ignitability		non-ignitable		0.00
alpha-BHC		< 0.00250	$\mathrm{mg/L}$	0.100
				continued

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sample 32011 continued ...

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Param	Flag	Result	Units	RL
gamma-BHC (Lindane)		< 0.00250	m mg/L	0.100
beta-BHC		< 0.00250	m mg/L	0.100
delta-BHC		< 0.00250	m mg/L	0.100
Heptachlor		< 0.00250	m mg/L	0.100
Aldrin		< 0.00250	m mg/L	0.100
Heptachlor Epoxide		< 0.00250	m mg/L	0.100
gamma-Chlordane		< 0.00250	m mg/L	0.100
alpha-Chlordane		< 0.00250	m mg/L	0.100
Endosulfan I		< 0.00250	m mg/L	0.100
p,p-DDE		< 0.00250	m mg/L	0.100
Dieldrin		< 0.00250	m mg/L	0.100
Endrin		< 0.00250	mg/L	0.100
p,p-DDD		< 0.00250	m mg/L	0.100
Endosulfan II		< 0.00250	m mg/L	0.100
p,p-DDT		< 0.00250	m mg/L	0.100
Endrin aldehyde		< 0.00250	m mg/L	0.100
Endosulfan sulfate		< 0.00250	m mg/L	0.100
Methoxychlor		< 0.00250	m mg/L	0.100
Endrin Ketone		< 0.00250	m mg/L	0.100
Toxaphene		< 0.0250	m mg/L	1.00
Technical Chlordane		< 0.0250	m mg/L	1.00
Pyridine		< 0.0500	m mg/L	10.0
1,4-Dichlorobenzene (para)		< 0.0500	m mg/L	10.0
o-Cresol		< 0.0500	m mg/L	10.0
m,p-Cresol		< 0.0500	m mg/L	10.0
Hexachloroethane		< 0.0500	m mg/L	10.0
Nitrobenzene		< 0.0500	m mg/L	10.0
Hexachlorobutadiene		< 0.0500	m mg/L	10.0
2,4,6-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenol		< 0.0500	m mg/L	10.0
2,4-Dinitrotoluene		< 0.0500	m mg/L	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	m mg/L	10.0
Hexachlorobenzene		< 0.0500	m mg/L	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	m mg/L	10.0
Pentachlorophenol		< 0.0500	m mg/L	10.0
TCLP Silver		< 0.125	m mg/L	0.125
TCLP Arsenic		< 0.100	m mg/L	0.100
TCLP Barium		0.801	m mg/L	0.100
TCLP Cadmium		< 0.0500	m mg/L	0.0500
TCLP Chromium		< 0.100	$\mathrm{mg/L}$	0.100
TCLP Mercury		< 0.0100	mg/L	0.0100
TCLP Lead		< 0.100	m mg/L	0.100
TCLP Selenium		< 0.500	m mg/L	0.500
Vinyl Chloride		< 0.0500	m mg/L	0.00100
1,1-Dichloroethene		< 0.0500	m mg/L	0.00100
2-Butanone (MEK)		< 0.500	m mg/L	0.0100
Chloroform		< 0.0500	$\mathrm{mg/L}$	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	m mg/L	0.00100
Benzene		< 0.0500	m mg/L	0.00100
Carbon Tetrachloride		< 0.0500	m mg/L	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L	0.00100
Tetrachloroethene (PCE)		< 0.0500	m mg/L	0.00100
Chlorobenzene		< 0.0500	mg/L	0.00100

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sample 32011 continued					
Param	\mathbf{Flag}	Result	Units	RL	
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100	

Sample: 32012 - 0420041125 (Pile)

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Reactivity non-reactive 0.00 Hydrogen Sulide <10.0 mg/Kg 10.0 Hydrogen Sulide <2.50 mg/Kg 2.50 Corresivity non-corresive mm/Yr 0.00 gilt 8.50 s.t. 0.00 Ignitability non-ignitable 0.00 0.00 gama-BHC (Indane) 0.00250 mg/L 0.100 beta-BHC <0.00250 mg/L 0.100 deta-BHC <0.00250 mg/L 0.100 deta-BHC <0.00250 mg/L 0.100 deta-BHC <0.00250 mg/L 0.100 deta-BHC <0.00250 mg/L 0.100 agama-Chlordane <0.00250 mg/L 0.100 agama-Chlordane <0.00250 mg/L 0.100 pachosulfan I <0.00250 mg/L 0.100 pachosulfan I <0.00250 mg/L 0.100 pachosulfan II <0.00250 mg/L 0.100 <	Param	Flag	Result	Units	RL
Hydrogen Cyanide <2.50 ng/Kg 2.50 Corrosivity non-corrosive mm/yr 0.00 pH 8.50 s.u. 0.00 Ignitability non-ignitable 0.00 0.00 gama-BHC 0.00250 mg/L 0.100 gama-BHC 0.00250 mg/L 0.100 beta-BHC <0.00250	Reactivity		non-reactive		0.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
pH 8.50 s.n. 0.00 Ignitability non-ignitable 0.000 apha-BHC 0.00300 mg/L 0.100 gamma-BHC (Lindane) 0.00300 mg/L 0.100 deta-BHC 0.00250 mg/L 0.100 Heptachlor 0.00250 mg/L 0.100 Aldrin 0.00250 mg/L 0.100 apma-Chlordane 0.00250 mg/L 0.100 apma-Chlordane 0.00250 mg/L 0.100 apha-Schlordane 0.00250 mg/L 0.100 p.p-DDE 0.00250 mg/L 0.100 p.p-DDD 0.00250 mg/L 0.100 p.p-DDT 0.00250 mg/L 0.100 p.p-DDT 0.00250 mg/L 0.100 p.p-DDT 0.00250 mg/L 0.100 p.p-DDT 0.00250 mg/L 0.100 Endosulfan II 0.00250 mg/L 0.100					
Ignitability non-ignitable 0.00 alpha-BHC < 0.00250 mg/L 0.100 gamma-BHC (Lindane) 0.00300 mg/L 0.100 beta-BHC < 0.00250 mg/L 0.100 detta-BHC < 0.00250 mg/L 0.100 Heptachlor < 0.00250 mg/L 0.100 detta-BHC < 0.00250 mg/L 0.100 gamma-Bhorne < 0.00250 mg/L 0.100 gamma-Chlordane < 0.00250 mg/L 0.100 gamma-Bhorne < 0.00250 mg/L 0.100 gamma-Bhorne < 0.00250 mg/L 0.100 gamma-Bhorne < 0.00250 mg/L 0.100 gama-Bhorne < 0.00250 mg/L 0.100 gamba-Shorne < 0.00250 mg/L 0.100 bieldvin < 0.00250 mg/L 0.100 pace data < 0.00250 mg/L 0.100 pace data < 0.00250 mg/L 0.100				m mm/yr	
alpha-BHC <0.00250	-			s.u.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
beta-BHC < 0.00250 mg/L 0.100 delta-BHC < 0.00250 mg/L 0.100 Heptachlor < 0.00250 mg/L 0.100 Aldrin < 0.00250 mg/L 0.100 gamma-Chlordane < 0.00250 mg/L 0.100 alpha-Chlordane < 0.00250 mg/L 0.100 alpha-Chlordane < 0.00250 mg/L 0.100 Endosulfan I < 0.00250 mg/L 0.100 Dieldrin < 0.00250 mg/L 0.100 p.p-DDE < 0.00250 mg/L 0.100 p.p-DDT < 0.00250 mg/L 0.100 Endesulfan II < 0.00250 mg/L 0.100 Endosulfan sulfate < 0.00250 mg/L 0.100 Endosulfan sulfate < 0.00250 mg/L 0.100 Methoxychlor < 0.00250 mg/L 0.000 Cresol mg/L 1.00 0.0500 mg/L $1.0.0$	-				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	gamma-BHC (Lindane)				
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
Heptachlor Epoxide < 0.00250 mg/L 0.100 gama-Chlordane < 0.00250 mg/L 0.100 Endosulfan I < 0.00250 mg/L 0.100 p.p-DDE < 0.00250 mg/L 0.100 Dieldrin < 0.00250 mg/L 0.100 p.p-DDE < 0.00250 mg/L 0.100 p.p-DDD < 0.00250 mg/L 0.100 p.p-DDT < 0.00250 mg/L 0.100 p.p-DDT < 0.00250 mg/L 0.100 p.p-DDT < 0.00250 mg/L 0.100 Endosulfan II < 0.00250 mg/L 0.100 Endosulfan sulfate < 0.00250 mg/L 0.100 Endosulfan sulfate < 0.00250 mg/L 0.100 Endosulfan Sulfate < 0.00250 mg/L 0.100 Draxphene < 0.00250 mg/L 1.00 Toxaphene < 0.0500 mg/L 1.00 Pyridine < 0.0500 mg/L 10.0 n.p-Cresol < 0.0500 mg/L 10.0	-				
$\begin{array}{llllllllllllllllllllllllllllllllllll$			< 0.00250		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			< 0.00250		0.100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	alpha-Chlordane			m mg/L	0.100
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			< 0.00250	m mg/L	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	p,p-DDE		< 0.00250	m mg/L	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Dieldrin		< 0.00250	m mg/L	0.100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Endrin		< 0.00250	m mg/L	0.100
$\begin{array}{c ccccc} p,p-DDT & <0.00250 & mg/L & 0.100 \\ Endrin aldehyde & <0.00250 & mg/L & 0.100 \\ Endosulfan sulfate & <0.00250 & mg/L & 0.100 \\ Methoxychlor & <0.00250 & mg/L & 0.100 \\ Endrin Ketone & <0.00250 & mg/L & 0.100 \\ Toxaphene & <0.0250 & mg/L & 1.00 \\ Technical Chlordane & <0.0250 & mg/L & 1.00 \\ Pyridine & <0.0500 & mg/L & 10.00 \\ 1,4-Dichlorobenzene (para) & <0.0500 & mg/L & 10.0 \\ 0-Cresol & <0.0500 & mg/L & 10.0 \\ Hexachlorobtane & <0.0500 & mg/L & 10.0 \\ Mitrobenzene & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorobenzene (para) & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorobenzene (para) & <0.0500 & mg/L & 10.0 \\ 0-Cresol & <0.0500 & mg/L & 10.0 \\ Hexachlorobtane & <0.0500 & mg/L & 10.0 \\ Mitrobenzene & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorobenzene & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorobenzene & <0.0500 & mg/L & 10.0 \\ 0,500 & mg/L & 10.0 \\ 1,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,6-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorobenzene & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 1,4-Dichlorophenol & <0.0500 & mg/L & 0.00 \\ 1,2+Dichlorophenol & <0.0500 & mg/L & 0.00 \\ 1,2+Dich$			< 0.00250	m mg/L	0.100
Endrin aldehyde < 0.00250 mg/L 0.100 Endosulfan sulfate < 0.00250 mg/L 0.100 Methoxychlor < 0.00250 mg/L 0.100 Endrin Ketone < 0.00250 mg/L 0.100 Toxaphene < 0.0250 mg/L 1.00 Technical Chlordane < 0.0250 mg/L 1.00 Pyridine < 0.0500 mg/L 10.0 1,4-Dichlorobenzene (para) < 0.0500 mg/L 10.0 o-Cresol < 0.0500 mg/L 10.0 m,p-Cresol < 0.0500 mg/L 10.0 Nitrobenzene < 0.0500 mg/L 10.0 Nitrobenzene < 0.0500 mg/L 10.0 2,4,5-Trichlorophenol < 0.0500 mg/L 10.0 2,4,5-Trichlorophenol < 0.0500 mg/L 10.0 2,4,5-Trichlorophenol < 0.0500 mg/L 10.0 2,4,5-Trichlorophenoxyproprionic acid < 0.0500 mg/L 10.0 <td></td> <td></td> <td>< 0.00250</td> <td></td> <td>0.100</td>			< 0.00250		0.100
Endosulfan sulfate<0.00250mg/L0.100Methoxychlor<0.00250	p,p-DDT		< 0.00250	m mg/L	0.100
Methoxychlor < 0.00250 mg/L 0.100 Endrin Ketone < 0.00250 mg/L 0.100 Toxaphene < 0.0250 mg/L 1.00 Technical Chlordane < 0.0250 mg/L 1.00 Pyridine < 0.0500 mg/L 10.0 $1,4$ -Dichlorobenzene (para) < 0.0500 mg/L 10.0 0 -Cresol < 0.0500 mg/L 10.0 m,p -Cresol < 0.0500 mg/L 10.0 Hexachloroethane < 0.0500 mg/L 10.0 Nitrobenzene < 0.0500 mg/L 10.0 1kexachlorophenol < 0.0500 mg/L 10.0 2,4,6-Trichlorophenol < 0.0500 mg/L 10.0 2,4,5-Trichlorophenol proprionic acid < 0.0500 mg/L 10.0 2,4,5-Trichlorophenoxyproprionic acid < 0.0500 mg/L 10.0 Pentachlorophenol < 0.0500 mg/L 10.0 CLP Arsenic < 0.100 mg/L 0.100 TCLP Salver < 0.125 mg/L 0.100 TCLP Cadmium 1.19 mg/L 0.100 TCLP Cadmium < 0.0500 mg/L 0.0500 TCLP Credmium < 0.0500 mg/L 0.100 TCLP C			< 0.00250	m mg/L	0.100
Endrin Ketone < 0.00250 mg/L 0.100 Toxaphene < 0.0250 mg/L 1.00 Technical Chlordane < 0.0250 mg/L 1.00 Pyridine < 0.0250 mg/L 10.0 1,4-Dichlorobenzene (para) < 0.0500 mg/L 10.0 o-Cresol < 0.0500 mg/L 10.0 m,p-Cresol < 0.0500 mg/L 10.0 Hexachloroethane < 0.0500 mg/L 10.0 Nitrobenzene < 0.0500 mg/L 10.0 Hexachlorophenol < 0.0500 mg/L 10.0 2,4,6-Trichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 2,4-Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 2,4,5-Trichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 2,4-Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 2,4-Dichlorophenoxymproprionic acid < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 2,4-Dichlorophenol < 0.0500 mg/L 10.0 10	Endosulfan sulfate		< 0.00250	$\mathrm{mg/L}$	0.100
Toxaphene <0.0250 mg/L 1.00 Technical Chlordane <0.0250	Methoxychlor		< 0.00250	m mg/L	0.100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Endrin Ketone		< 0.00250	m mg/L	0.100
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Toxaphene		< 0.0250	m mg/L	1.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Technical Chlordane		< 0.0250	m mg/L	1.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pyridine		< 0.0500	m mg/L	10.0
$\begin{array}{cccccccc} m,p-Cresol & <0.0500 & mg/L & 10.0 \\ Hexachloroethane & <0.0500 & mg/L & 10.0 \\ Nitrobenzene & <0.0500 & mg/L & 10.0 \\ Hexachlorobutadiene & <0.0500 & mg/L & 10.0 \\ 2,4,6-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4-Dinitrotoluene & <0.0500 & mg/L & 10.0 \\ 2,4-Dinitrotoluene & <0.0500 & mg/L & 10.0 \\ 2,4-Dinitrotoluene & <0.0500 & mg/L & 10.0 \\ 4.4-Dinitrotoluene & <0.0500 & mg/L & 10.0 \\ 2,4-Dinitrotoluene & <0.0500 & mg/L & 10.0 \\ 4.5-Trichlorophenoxyacetic acid & <0.0500 & mg/L & 10.0 \\ 4.5-Trichlorophenoxyproprionic acid & <0.0500 & mg/L & 10.0 \\ 7-CLP Silver & <0.125 & mg/L & 0.125 \\ TCLP Arsenic & <0.100 & mg/L & 0.100 \\ TCLP Barium & 1.19 & mg/L & 0.100 \\ TCLP Cadmium & <0.0500 & mg/L & 0.0500 \\ TCLP Chromium & <0.0500 & mg/L & 0.0500 \\ \end{array}$	1,4-Dichlorobenzene (para)		< 0.0500	m mg/L	10.0
Hexachloroethane<0.0500mg/L10.0Nitrobenzene<0.0500	o-Cresol		< 0.0500	m mg/L	10.0
Nitrobenzene<0.0500mg/L10.0Hexachlorobutadiene<0.0500	m,p-Cresol		< 0.0500	m mg/L	10.0
Hexachlorobutadiene < 0.0500 mg/L 10.0 $2,4,6$ -Trichlorophenol < 0.0500 mg/L 10.0 $2,4,5$ -Trichlorophenol < 0.0500 mg/L 10.0 $2,4$ -Dinitrotoluene < 0.0500 mg/L 10.0 $2,4$ -Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 $2,4$ -Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 $2,4$ -Dichlorophenoxyacetic acid < 0.0500 mg/L 10.0 $2,4,5$ -Trichlorophenoxyproprionic acid < 0.0500 mg/L 10.0 $2,4,5$ -Trichlorophenoxyproprionic acid < 0.0500 mg/L 10.0 Pentachlorophenol < 0.0500 mg/L 10.0 TCLP Silver < 0.125 mg/L 0.125 TCLP Arsenic < 0.100 mg/L 0.100 TCLP Barium 1.19 mg/L 0.100 TCLP Cadmium < 0.0500 mg/L 0.0500 TCLP Chromium < 0.100 mg/L 0.0500	Hexachloroethane		< 0.0500	m mg/L	10.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Nitrobenzene		< 0.0500	m mg/L	10.0
$\begin{array}{cccccc} 2,4,5-Trichlorophenol & <0.0500 & mg/L & 10.0 \\ 2,4-Dinitrotoluene & <0.0500 & mg/L & 10.0 \\ 2,4-Dichlorophenoxyacetic acid & <0.0500 & mg/L & 10.0 \\ Hexachlorobenzene & <0.0500 & mg/L & 10.0 \\ 2,4,5-Trichlorophenoxyproprionic acid & <0.0500 & mg/L & 10.0 \\ Pentachlorophenol & <0.0500 & mg/L & 10.0 \\ TCLP Silver & <0.125 & mg/L & 0.125 \\ TCLP Arsenic & <0.100 & mg/L & 0.100 \\ TCLP Barium & 1.19 & mg/L & 0.100 \\ TCLP Cadmium & <0.0500 & mg/L & 0.0500 \\ TCLP Chromium & <0.0500 & mg/L & 0.0500 \\ \end{array}$	Hexachlorobutadiene		< 0.0500	m mg/L	10.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,4,6-Trichlorophenol		< 0.0500	m mg/L	10.0
$\begin{array}{ccccc} 2,4-\text{Dichlorophenoxyacetic acid} & <0.0500 & \text{mg/L} & 10.0 \\ \text{Hexachlorobenzene} & <0.0500 & \text{mg/L} & 10.0 \\ 2,4,5-\text{Trichlorophenoxyproprionic acid} & <0.0500 & \text{mg/L} & 10.0 \\ \text{Pentachlorophenol} & <0.0500 & \text{mg/L} & 10.0 \\ \text{TCLP Silver} & <0.125 & \text{mg/L} & 0.125 \\ \text{TCLP Arsenic} & <0.100 & \text{mg/L} & 0.100 \\ \text{TCLP Barium} & 1.19 & \text{mg/L} & 0.100 \\ \text{TCLP Cadmium} & <0.0500 & \text{mg/L} & 0.0500 \\ \text{TCLP Chromium} & <0.100 & \text{mg/L} & 0.0500 \\ \end{array}$	2,4,5-Trichlorophenol		< 0.0500	m mg/L	10.0
$\begin{array}{llllllllllllllllllllllllllllllllllll$	2,4-Dinitrotoluene		< 0.0500	m mg/L	10.0
$\begin{array}{ccccc} 2,4,5-Trichlorophenoxyproprionic acid & <0.0500 & mg/L & 10.0 \\ Pentachlorophenol & <0.0500 & mg/L & 10.0 \\ TCLP Silver & <0.125 & mg/L & 0.125 \\ TCLP Arsenic & <0.100 & mg/L & 0.100 \\ TCLP Barium & 1.19 & mg/L & 0.100 \\ TCLP Cadmium & <0.0500 & mg/L & 0.0500 \\ TCLP Chromium & <0.100 & mg/L & 0.100 \\ \end{array}$	2,4-Dichlorophenoxyacetic acid		< 0.0500	m mg/L	10.0
Pentachlorophenol <0.0500 mg/L 10.0 TCLP Silver <0.125			< 0.0500	$\mathrm{mg/L}$	10.0
TCLP Silver <0.125 mg/L 0.125 TCLP Arsenic <0.100	2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	m mg/L	
TCLP Arsenic <0.100 mg/L 0.100 TCLP Barium 1.19 mg/L 0.100 TCLP Cadmium <0.0500			< 0.0500	$\mathrm{mg/L}$	10.0
TCLP Barium 1.19 mg/L 0.100 TCLP Cadmium <0.0500					
TCLP Cadmium <0.0500 mg/L 0.0500 TCLP Chromium <0.100					
<u>TCLP Chromium</u> <0.100 mg/L 0.100					
C,					
	TCLP Chromium		< 0.100	mg/L	

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

Report Date: April 29, 2004 Runco Mud	Work Order Run		Page Number: 15 of 15 Jal,New Mexico		
sample 32012 continued					
Param	Flag	Result	Units	RL	
TCLP Mercury		< 0.0100	mg/L	0.0100	
TCLP Lead		< 0.100	mg/L	0.100	
TCLP Selenium		< 0.500	mg/L	0.500	
Vinyl Chloride		< 0.0500	mg/L	0.00100	
1,1-Dichloroethene		< 0.0500	mg/L	0.00100	
2-Butanone (MEK)		< 0.500	mg/L	0.0100	
Chloroform		< 0.0500	mg/L	0.00100	
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	0.00100	
Benzene		< 0.0500	mg/L	0.00100	
Carbon Tetrachloride		< 0.0500	mg/L	0.00100	
Trichloroethene (TCE)		< 0.0500	mg/L	0.00100	
Tetrachloroethene (PCE)		< 0.0500	mg/L	0.00100	
Chlorobenzene		< 0.0500	mg/L	0.00100	
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.00100	

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Analytical and Quality Control Report

Ed Martin OCD-Santa Fe 1220 S. Saint Francis Dr. Santa Fe, NM 87505

Report Date: April 29, 2004

Work Order: 4042127

Project Location: Jal, New Mexico Project Name: Runco Project Number: Runco Mud

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
32002	0420041004 (Tank 1)	soil	2004-04-20	00:00	2004-04-21
32003	0420041008 (Tank 2)	soil	2004-04-20	00:00	2004-04-21
32004	0420041015 (Tank 3)	soil	2004-04-20	00:00	2004-04-21
32005	0420041032 (Tank 4)	soil	2004-04-20	00:00	2004-04-21
32006	0420041025 (Tank 5)	soil	2004-04-20	00:00	2004-04-21
32007	0420041036 (Tank 6)	soil	2004-04-20	00:00	2004-04-21
32008	0420041050 (White 7)	soil	2004-04-20	00:00	2004-04-21
32009	0420041100 (Tank 7)	soil	2004-04-20	00:00	2004-04-21
32010	0420041105 (Tank 8)	soil	2004-04-20	00:00	2004-04-21
32011	0420041047 (Tank 11)	soil	2004-04-20	00:00	2004-04-21
32012	0420041125 (Pile)	soil	2004-04-20	00:00	2004-04-21

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

Dr. Blair Leftwich, Director

Report Date: April 29, 2004	Work Order: 4042127	Page Number: 2 of 44
Runco Mud	Runco	Jal,New Mexico

Analytical Report

Sample: 32002 - 0420041004 (Tank 1)

I.

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Analysis:	RCI	Analytical Method:	ASTM D 5049-90/4978-95	Prep Method:	N/A
QC Batch:	9088	Date Analyzed:	2004-04-22	Analyzed By:	JH
Prep Batch:	8073	Date Prepared:	2004-04-22	Prepared By:	$_{ m JH}$
Analysis:	RCI	Analytical Method:	S 1110	Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1	Prep Method:	N/A

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pН		8.40	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 32002 - 0420041004 (Tank 1)

Analysis:TCLP PesticidesQC Batch:9175Prep Batch:8083		Analytica Date Ana Date Prep	•	S 8081A 2004-04-26 2004-04-22		Prep Method: Analyzed By: Prepared By:	TCLP 1311 AG AG
			RL				
Parameter	Flag		Result	Unit	s	Dilution	RL
alpha-BHC		<	0.00250	mg/I		0.025	0.100
gamma-BHC (Lindane)		<	0.00250	mg/I		0.025	0.100
beta-BHC		<	0.00250	mg/I		0.025	0.100
delta-BHC		<	0.00250	mg/I		0.025	0.100
Heptachlor		<	0.00250	mg/I		0.025	0.100
Aldrin		<	0.00250	mg/I		0.025	0.100
Heptachlor Epoxide		<	0.00250	mg/I		0.025	0.100
gamma-Chlordane		<	0.00250	mg/I		0.025	0.100
alpha-Chlordane		<	0.00250	mg/I		0.025	0.100
Endosulfan I		<	0.00250	mg/I		0.025	0.100
p,p-DDE		<	0.00250	mg/I		0.025	0.100
Dieldrin		<	0.00250	mg/I		0.025	0.100
Endrin		<	0.00250	mg/I		0.025	0.100
p,p-DDD		<	0.00250	mg/I		0.025	0.100
Endosulfan II		<	0.00250	mg/I		0.025	0.100
p,p-DDT		<	0.00250	mg/I		0.025	0.100
Endrin aldehyde		<	0.00250	mg/I		0.025	0.100
Endosulfan sulfate		<	0.00250	mg/I		0.025	0.100
Methoxychlor		<	0.00250	mg/I		0.025	0.100
Endrin Ketone		<	0.00250	mg/I		0.025	0.100
Toxaphene		<	<0.0250	mg/I		0.025	1.00
Technical Chlordane			<0.0250	mg/I		0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00280	mg/L	0.025	0.200	56	34.9 - 149
							continued

Report Date: April 29, 2004 Runco Mud		,	· · ·	Work Order: A			-	umber: 3 of 44 al,New Mexico
sample continued						Spike	Percent	Recovery
Surrogate	Flag		Result	Units	Dilution		Recovery	Limits
Deca chlorobiphenyl		0.0	0350	mg/L	0.025	0.200	70	52.2 - 187
Sample: 32002 - 042004100)4 (Tank 1)							
Analysis: TCLP Semivo	latiles		Analyt	tical Method:	S 8270C		Prep Method:	TCLP 1311
C Batch: 9235			-	nalyzed:	2004-04-	27	Analyzed By:	
Prep Batch: 8060				repared:	2004-04-		Prepared By:	JH
					RL			
Parameter			Flag		esult	Units	Dilution	RL
yridine				<0.	0500	mg/L	0.005	10.0
,4-Dichlorobenzene (para))500	mg/L	0.005	10.0
-Cresol					0500	mg/L	0.005	10.0
n,p-Cresol					0500	mg/L	0.005	10.0
Iexachloroethane					0500	mg/L	0.005	10.0
Vitrobenzene					0500	mg/L	0.005	10.0
Iexachlorobutadiene					0500	mg/L	0.005	10.0
,4,6-Trichlorophenol)500	mg/L	0.005	10.0
2,4,5-Trichlorophenol					0500	mg/L	0.005	10.0
2,4-Dinitrotoluene					0500	mg/L	0.005	10.0
4-Dichlorophenoxyacetic	acid				0500	mg/L	0.005	10.0
Hexachlorobenzene					0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyprop Pentachlorophenol	rionic acid				0500 0500	mg/L mg/L	0.005 0.005	10.0 10.0
								· · · · · · · · · · · · · · · · · · ·
Nume ante	Elec	D	TT			Spike	Percent	Recovery
Surrogate	Flag	Result	Un		ution	Amount	Recovery	Limits
-Fluorophenol		0.100	mg	·	005	80.0	25	2.83 - 110.33
Phenol-d5		0.0570	mg		005	80.0	14	0 - 82.08
Vitrobenzene-d5		0.247	mg		005	80.0	62 57	26.72 - 155
-Fluorobiphenyl		0.228	mg		005	80.0	57	35.89 - 150.5
2,4,6-Tribromophenol		0.298	mg		005	80.0	74	0 - 204.91
Terphenyl-d14		0.263	mg	µມ 0.	005	80.0	66	33.98 - 168.85

Sample: 32002 - 0420041004 (Tank 1)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver	·	<0.125	mg/L	1	0.125
TCLP Arsen	ic	< 0.100	mg/L	1	0.100
TCLP Bariur	m	0.759	mg/L	1	0.100
TCLP Cadm	ium	0.100	mg/L	1	0.0500

Runco Mud Runco Jal.	umber: 4 of 44
	ll,New Mexico

sample 32002 continued ...

		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Chromium	<u> </u>	<0.100	mg/L	1	0.100
TCLP Mercury		< 0.0100	mg/L	1	0.0100
TCLP Lead		0.216	mg/L	1	0.100
TCLP Selenium		< 0.500	mg/L	1	0.500

Sample: 32002 - 0420041004 (Tank 1)

Analysis: TCLP Volatiles QC Batch: 9201 Prep Batch: 8170		Analytical Method Date Analyzed: Date Prepared:	: S 8260B 2004-04-26 2004-04-22		Prep Method: Analyzed By: Prepared By:	TCLP 1311 JG JG
		RL				
Parameter	Flag	Result	Units		Dilution	RL
Vinyl Chloride		< 0.0500	mg/L		50	0.00100
1,1-Dichloroethene		< 0.0500	mg/L		50	0.00100
2-Butanone (MEK)		< 0.500	mg/L		50	0.0100
Chloroform		< 0.0500	mg/L	mg/L		0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L		50	0.00100
Benzene		< 0.0500	mg/L	mg/L		0.00100
Carbon Tetrachloride		< 0.0500	mg/L		50	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L		50	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L	mg/L		0.00100
Chlorobenzene		< 0.0500	mg/L	mg/L		0.00100
1,4-Dichlorobenzene (para)	· · · · · · · · · · · · · · · · · · ·	< 0.0500	mg/L		50	0.00100
				Spike	Percent	Recovery
Surrogate	Flag	Result Units	5 Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.2 mg/I	. 1	50.0	104	82 - 118
Toluene-d8		53.3 mg/L		50.0	107	91 - 107
4-Bromofluorobenzene (4-BFB)		48.5 mg/L		50.0	97	73 - 112

Sample: 32003 - 0420041008 (Tank 2)

Analysis: QC Batch: Prep Batch: Analysis: Analysis:	RCI 9088 8073 RCI RCI	Analytical Method Date Analyzed: Date Prepared: Analytical Method Analytical Method	2004-04-22 2004-04-22 : S 1110	2	Prep Method: Analyzed By: Prepared By: Prep Method: Prep Method:	N/A JH JH N/A N/A
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Reactivity		non-	reactive		1	0.00
Hydrogen Su	ulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cy	yanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-co	orrosive	mm/yr	1	0.00
pН			8.40	s.u.	1	0.00
Ignitability		non-i	gnitable		1	0.00

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Sample: 32003 - 0420041008 (Tank 2)

Analysis:TCLP PesticidesAnalytical Method:S 8081APrep Method:TCLPQC Batch:9175Date Analyzed:2004-04-26Analyzed By:AGPrep Batch:8083Date Prepared:2004-04-22Prepared By:AG	QC Batch:		Date Analyzed:	2004-04-26	Analyzed By:	AG
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			RL				
Parameter	Flag		Result	Units	1	Dilution	RL
alpha-BHC			< 0.00250	mg/L	4	0.025	0.100
gamma-BHC (Lindane)			< 0.00250	mg/L	,	0.025	0.100
beta-BHC			< 0.00250	mg/L	,	0.025	0.100
delta-BHC			< 0.00250	mg/L	,	0.025	0.100
Heptachlor			< 0.00250	mg/L	,	0.025	0.100
Aldrin			< 0.00250	∖ mg/L	,	0.025	0.100
Heptachlor Epoxide			< 0.00250	mg/L	,	0.025	0.100
gamma-Chlordane			< 0.00250	mg/L	,	0.025	0.100
alpha-Chlordane			< 0.00250	mg/L	,	0.025	0.100
Endosulfan I			< 0.00250	mg/L	,	0.025	0.100
p,p-DDE			< 0.00250	mg/L	<i>,</i>	0.025	0.100
Dieldrin			< 0.00250	mg/L	,	0.025	0.100
Endrin			< 0.00250	mg/L	,	0.025	0.100
p,p-DDD			< 0.00250	mg/L		0.025	0.100
Endosulfan II			< 0.00250	mg/L	,	0.025	0.100
p,p-DDT			< 0.00250	mg/L	,	0.025	0.100
Endrin aldehyde			< 0.00250	mg/L		0.025	0.100
Endosulfan sulfate			< 0.00250	mg/L		0.025	0.100
Methoxychlor			< 0.00250	mg/L		0.025	0.100
Endrin Ketone			<0.00250	mg/L		0.025	0.100
Toxaphene			< 0.0250	mg/L	,	0.025	1.00
Technical Chlordane	····		< 0.0250	mg/L	,	0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00260	mg/L	0.025	0.200	52	34.9 - 149
Deca chlorobiphenyl		0.00360	mg/L	0.025	0.200	72	52.2 - 187

Sample: 32003 - 0420041008 (Tank 2)

Analysis:TCLP SemivolatilesQC Batch:9235Prep Batch:8060	Analytical Me Date Analyzed Date Prepared	1: 2004-04-27		Prep Method: Analyzed By: Prepared By:	TCLP 1311 RC JH
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.005	10.0
o-Cresol		< 0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol	<0.0500		mg/L	0.005	10.0
2,4-Dinitrotoluene		<0.0500 mg/L		0.005	10.0
				continued	

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sample 32003 continued...

				RL			
Parameter	Parameter		Flag	Result	Units	Dilution	RL
2,4-Dichlorophenoxyacetic	acid			< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene				< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxypro	prionic acid	1		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol				< 0.0500	mg/L	0.005	10.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.106	mg/L	0.005	80.0	26	2.83 - 110.33
Phenol-d5		0.0568	mg/L	0.005	80.0	14	0 - 82.08
Nitrobenzene-d5		0.272	mg/L	0.005	80.0	68	26.72 - 155
2-Fluorobiphenyl		0.250	mg/L	0.005	80.0	62	35.89 - 150.5
2,4,6-Tribromophenol		0.325	mg/L	0.005	80.0	81	0 - 204.91
Terphenyl-d14		0.270	mg/L	0.005	80.0	68	33.98 - 168.85

Sample: 32003 - 0420041008 (Tank 2)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	<0.100	mg/L	1	0.100
TCLP Bariur	m	0.495	mg/L	1	0.100
TCLP Cadm	ium	0.116	mg/L	1	0.0500
TCLP Chron	nium	<0.100	mg/L	1	0.100
TCLP Mercu	ıry	< 0.0100	mg/L	1	0.0100
TCLP Lead		1.25	mg/L	1	0.100
TCLP Seleni	um	< 0.500	mg/L	1	0.500

Sample: 32003 - 0420041008 (Tank 2)

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	TCLP Volatiles 9201		Analytical Method: Date Analyzed:	S 8260B 2004-04-26	Prep Method:	
•					Analyzed By:	
Prep Batch:	8170		Date Prepared:	2004-04-22	Prepared By:	JG
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Vinyl Chloride	e		< 0.0500	mg/L	50	0.00100
1,1-Dichloroet	thene		< 0.0500	mg/L	50	0.00100
2-Butanone (N	MEK)		< 0.500	mg/L	50	0.0100
[•] Chloroform			< 0.0500	mg/L	50	0.00100
1,2-Dichloroet	thane (EDC)		< 0.0500	mg/L	50	0.00100
Benzene			< 0.0500	mg/L	50	0.00100
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sample 32003 continued ...

			RL				
Parameter	Flag		Result	Units		Dilution	RL
Carbon Tetrachloride			< 0.0500	mg/L		50	0.00100
Trichloroethene (TCE)			< 0.0500	mg/L		50	0.00100
Tetrachloroethene (PCE)			< 0.0500	mg/L		50	0.00100
Chlorobenzene			< 0.0500	mg/L		50	0.00100
1,4-Dichlorobenzene (para)	· · · · · · · · · · · · · · · · ·		< 0.0500	mg/L	·	50	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.5	mg/L	1	50.0	105	82 - 118
Toluene-d8		52.7	mg/L	1	50.0	105	91 - 107
4-Bromofluorobenzene (4-BFB)		47.0	mg/L	1	50.0	94	73 - 112

Sample: 32004 - 0420041015 (Tank 3)

Analysis:	RCI	Analytical Method:	ASTM D 5	049-90/4978-95	Prep Method:	N/A
QC Batch:	9088	Date Analyzed:	2004-04-22	2	Analyzed By:	JH
Prep Batch:	8073	Date Prepared:	2004-04-22	2	Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110		Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Cl	n. 7.1	Prep Method:	N/A
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Reactivity		non-re	active		1	0.00
Hydrogen Si	ulfide		<10.0	mg/Kg	1	10.0
Hydrogen C	yanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-cor	rosive	mm/yr	1	0.00
pН			8.40	s.u.	1	0.00
-						

non-ignitable

Sample: 32004 - 0420041015 (Tank 3)

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Ignitability

Analysis: TCLP Pesticide QC Batch: 9175 Prep Batch: 8083	es	Analytical Method: Date Analyzed: Date Prepared:	S 8081A 2004-04-26 2004-04-22	Prep Method: Analyzed By: Prepared By:	TCLP 1311 AG AG
		RL			
Parameter	Flag	Result	Units	Dilution	RL
alpha-BHC		<0.00250	mg/L	0.025	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.025	0.100
beta-BHC		< 0.00250	mg/L	0.025	0.100
delta-BHC		< 0.00250	mg/L	0.025	0.100
Heptachlor		< 0.00250	mg/L	0.025	0.100
Aldrin		< 0.00250	mg/L	0.025	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.025	0.100
gamma-Chlordane		< 0.00250	mg/L	0.025	0.100
alpha-Chlordane		< 0.00250	mg/L	0.025	0.100
Endosulfan I		< 0.00250	mg/L	0.025	0.100
p,p-DDE		< 0.00250	mg/L	0.025	0.100
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sample 32004 continued ...

			RL				
Parameter	Flag		Result	Unit	S	Dilution	RL
Dieldrin			< 0.00250	mg/]	L	0.025	0.100
Endrin		•	<0.00250	mg/l	Ĺ	0.025	0.100
p,p-DDD		•	<0.00250	mg/]	Ĺ	0.025	0.100
Endosulfan II			<0.00250	mg/	L	0.025	0.100
p,p-DDT			<0.00250	mg/	L	0.025	0.100
Endrin aldehyde		•	<0.00250	mg/l	L	0.025	0.100
Endosulfan sulfate			<0.00250	mg/l	Ĺ	0.025	0.100
Methoxychlor			<0.00250	mg/]	Ĺ	0.025	0.100
Endrin Ketone			<0.00250	mg/	L	0.025	0.100
Toxaphene			< 0.0250	mg/.	Ĺ	0.025	1.00
Technical Chlordane			< 0.0250	mg/	L	0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00290	mg/L	0.025	0.200	58	34.9 - 149
Deca chlorobiphenyl		0.00350	mg/L	0.025	0.200	70	52.2 - 187

Sample: 32004 - 0420041015 (Tank 3)

Analysis:TCLP SemivolatilesQC Batch:9235Prep Batch:8060	Analytical Me Date Analyze Date Prepared	d: 2004-04-27		Prep Method: Analyzed By: Prepared By:	TCLP 1311 RC JH
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		<0.0500	mg/L	0.005	10.0
o-Cresol		<0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol		<0.0500	mg/L	0.005	10.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.101	mg/L	0.005	80.0	25	2.83 - 110.33
Phenol-d5		0.0546	mg/L	0.005	80.0	14	0 - 82.08
Nitrobenzene-d5		0.265	mg/L	0.005	80.0	66	26.72 - 155
2-Fluorobiphenyl		0.242	mg/L	0.005	80.0	60	35.89 - 150.5
2,4,6-Tribromophenol		0.310	mg/L	0.005	80.0	78	0 - 204.91
Terphenyl-d14		0.263	mg/L	0.005	80.0	66	33.98 - 168.85

Report Date: April 29, 2004 Runco Mud		Work Order: 4 Runco	042127	-	Page Number: 9 of 44 Jal,New Mexico		
Sample: 32004 - 0420	0041015 (Tank 3)						
Analysis: TCLP 7	fotal 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311		
QC Batch: 9128		Date Analyzed:	2004-04-26	Analyzed By:	RR		
Prep Batch: 8106		Date Prepared:	2004-04-23	Prepared By:	ТР		
-	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311		
QC Batch: 9263		Date Analyzed:	2004-04-28	Analyzed By:	BC		
Prep Batch: 8192		Date Prepared:	2004-04-28	Prepared By:	BC		
		RL					
Parameter	Flag	Result	Units	Dilution	RL		
TCLP Silver		<0.125	mg/L	1	0.125		
TCLP Arsenic		< 0.100	mg/L	1	0.100		
TCLP Barium		0.712	mg/L	1	0.100		
TCLP Cadmium		0.142	mg/L	1	0.0500		
TCLP Chromium		0.111	mg/L	1	0.100		
TCLP Mercury		< 0.0100	mg/L	1	0.0100		
TCLP Lead		0.867	mg/L	1	0.100		
TCLP Selenium		< 0.500	mg/L	1	0.500		

Sample: 32004 - 0420041015 (Tank 3)

Analysis: TCLP Volatiles QC Batch: 9201		Analytical Metho Date Analyzed:	d: S 8260B 2004-04-26		Prep Method: Analyzed By:	TCLP 1311 JG
Prep Batch: 8170		Date Prepared:	2004-04-22		Prepared By:	JG
		RI				
Parameter	Flag	Resul	t Units		Dilution	RL
Vinyl Chloride		< 0.050) mg/L		50	0.00100
1,1-Dichloroethene		< 0.050) mg/L		50	0.00100
2-Butanone (MEK)		< 0.50) mg/L		50	0.0100
Chloroform		< 0.050) mg/L		50	0.00100
1,2-Dichloroethane (EDC)		< 0.050) mg/L		50	0.00100
Benzene		< 0.050) mg/L		50	0.00100
Carbon Tetrachloride		< 0.050) mg/L		50	0.00100
Trichloroethene (TCE)		< 0.050) mg/L		50	0.00100
Tetrachloroethene (PCE)		< 0.050) mg/L		50	0.00100
Chlorobenzene		< 0.050) mg/L		50	0.00100
1,4-Dichlorobenzene (para)		< 0.050			50	0.00100
				Spike	Percent	Recovery
Surrogate	Flag	Result Uni	ts Dilution	Amount	Recovery	Limits
Dibromofluoromethane	·····	52.4 mg/	L 1	50.0	105	82 - 118
Toluene-d8		52.6 mg/		50.0	105	91 - 107
4-Bromofluorobenzene (4-BFB)		47.3 mg/	L 1	50.0	95	73 - 112

Sample: 32005 - 0420041032 (Tank 4)

Analysis:	RCI	Analytical Method:	ASTM D 5049-90/4978-95	Prep Method:	N/A
QC Batch:	9088	Date Analyzed:	2004-04-22	Analyzed By:	JH
Prep Batch:	8073	Date Prepared:	2004-04-22	Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110	Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1	Prep Method:	N/A

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		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity	<u></u>	non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
рН		10.0	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 32005 - 0420041032 (Tank 4)

Analysis:TCLP PesticidesQC Batch:9175Prep Batch:8083		Date A	tical Method: Analyzed: Prepared:	S 8081A 2004-04-26 2004-04-22		Prep Method: Analyzed By: Prepared By:	TCLP 1311 AG AG
			RL				
Parameter	Flag		Result	Units		Dilution	RL
alpha-BHC			< 0.00250	mg/L		0.025	0.100
gamma-BHC (Lindane)			< 0.00250	mg/L		0.025	0.100
beta-BHC			< 0.00250	mg/L		0.025	0.100
delta-BHC			< 0.00250	mg/L		0.025	0.100
Heptachlor			< 0.00250	mg/L		0.025	0.100
Aldrin			< 0.00250	mg/L		0.025	0.100
Heptachlor Epoxide			< 0.00250	mg/L		0.025	0.100
gamma-Chlordane			< 0.00250	mg/L		0.025	0.100
alpha-Chlordane			< 0.00250	mg/L		0.025	0.100
Endosulfan I			< 0.00250	mg/L		0.025	0.100
p,p-DDE			< 0.00250	mg/L		0.025	0.100
Dieldrin			< 0.00250	mg/L		0.025	0.100
Endrin			< 0.00250	mg/L		0.025	0.100
p,p-DDD			< 0.00250	mg/L		0.025	0.100
Endosulfan II			< 0.00250	mg/L		0.025	0.100
p,p-DDT			< 0.00250	mg/L		0.025	0.100
Endrin aldehyde			< 0.00250	mg/L		0.025	0.100
Endosulfan sulfate			< 0.00250	mg/L		0.025	0.100
Methoxychlor			< 0.00250	mg/L		0.025	0.100
Endrin Ketone			< 0.00250	mg/L		0.025	0.100
Toxaphene			< 0.0250	mg/L		0.025	1.00
Technical Chlordane			< 0.0250	mg/L		0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00280	mg/L	0.025	0.200	56	34.9 - 149
Deca chlorobiphenyl		0.00380	mg/L	0.025	0.200	76	52.2 - 187

Sample: 32005 - 0420041032 (Tank 4)

Analysis:	TCLP Semivolatiles	Analytical Method:	S 8270C	Prep Method:	TCLP 1311
QC Batch:	9235	Date Analyzed:	2004-04-27	Analyzed By:	RC
Prep Batch:	8060	Date Prepared:	2004-04-21	Prepared By:	JH

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		RL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.005	10.0
o-Cresol		< 0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol		<0.0500	mg/L	0.005	10.0
			Snike	Percent	Recovery

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.0986	mg/L	0.005	80.0	25	2.83 - 110.33
Phenol-d5		0.0543	mg/L	0.005	80.0	14	0 - 82.08
Nitrobenzene-d5		0.243	mg/L	0.005	80.0	61	26.72 - 155
2-Fluorobiphenyl		0.223	mg/L	0.005	80.0	56	35.89 - 150.5
2,4,6-Tribromophenol		0.270	mg/L	0.005	80.0	68	0 - 204.91
Terphenyl-d14		0.235	mg/L	0.005	80.0	59	33.98 - 168.85

Sample: 32005 - 0420041032 (Tank 4)

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Analysis: QC Batch: Prep Batch:	TCLP Total 8 Metals 9128 8106	Analytical Method: Date Analyzed: Date Prepared:	S 6010B 2004-04-26 2004-04-23	Prep Method: Analyzed By: Prepared By:	TCLP 1311 RR TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	< 0.100	mg/L	1	0.100
TCLP Arsen TCLP Bariur		<0.100 1.35	-	1 1	0.100 0.100
	n		mg/L	1 1 · 1	
TCLP Bariur	n ium	1.35	mg/L mg/L	1 1 · 1 1	0.100
TCLP Bariur TCLP Cadm	n ium nium	1.35 0.146	mg/L mg/L mg/L	1 1 1 1 1	0.100 0.0500
TCLP Bariur TCLP Cadm TCLP Chron	n ium nium	1.35 0.146 <0.100	mg/L mg/L mg/L mg/L	1 1 1 1 1 1	0.100 0.0500 0.100

Sample: 32005 - 0420041032 (Tank 4)

TCLP Selenium

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	Prep Method:	TCLP 1311
QC Batch:	9201	Date Analyzed:	2004-04-26	Analyzed By:	JG
Prep Batch:	8170	Date Prepared:	2004-04-22	Prepared By:	JG

< 0.500

mg/L

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0.500

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			RL				
Parameter	Flag		Result	Units		Dilution	RL
Vinyl Chloride			< 0.0500	mg/L		50	0.00100
1,1-Dichloroethene			< 0.0500	mg/L		50	0.00100
2-Butanone (MEK)			< 0.500	mg/L		50	0.0100
Chloroform			< 0.0500	mg/L		50	0.00100
1,2-Dichloroethane (EDC)			< 0.0500	mg/L		50	0.00100
Benzene			< 0.0500	mg/L		50	0.00100
Carbon Tetrachloride			< 0.0500	mg/L		50	0.00100
Trichloroethene (TCE)			< 0.0500	mg/L		50	0.00100
Tetrachloroethene (PCE)			< 0.0500	mg/L		50	0.00100
Chlorobenzene			< 0.0500	mg/L		50	0.00100
1,4-Dichlorobenzene (para)			< 0.0500	mg/L		50	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.1	mg/L	1	50.0	104	82 - 118
Toluene-d8		53.3	mg/L	1	50.0	107	91 - 107
4-Bromofluorobenzene (4-BFB)		47.1	mg/L	1	50.0	94	73 - 112

Sample: 32006 - 0420041025 (Tank 5)

Analysis:	RCI	Analytical Method:	ASTM D 5049-90/4978-95	Prep Method:	N/A
QC Batch:	9088	Date Analyzed:	2004-04-22	Analyzed By:	JH
Prep Batch:	8073	Date Prepared:	2004-04-22	Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110	Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1	Prep Method:	N/A
			RL ,		

Parameter	Flag	Result	Units	Dilution	RL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pH		8.20	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 32006 - 0420041025 (Tank 5)

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Analysis: TCLP Pesticides		Analytical Method:	S 8081A	Prep Method:	TCLP 1311
QC Batch: 9175		Date Analyzed:	2004-04-26	Analyzed By:	AG
Prep Batch: 8083		Date Prepared:	2004-04-22	Prepared By:	AG
		RL			
Parameter	Flag	Result	Units	Dilution	RL
alpha-BHC		< 0.00250	mg/L	0.025	0.100
gamma-BHC (Lindane)		0.00550	mg/L	0.025	0.100
beta-BHC		< 0.00250	mg/L	0.025	0.100
delta-BHC		< 0.00250	mg/L	0.025	0.100
Heptachlor		< 0.00250	mg/L	0.025	0.100
Aldrin		< 0.00250	mg/L	0.025	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.025	0.100

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sample 32006 continued ...

			RL				
Parameter	Flag		Result	Unit	S	Dilution	RL
gamma-Chlordane			< 0.00250	mg/l	ب	0.025	0.100
alpha-Chlordane			< 0.00250	mg/I		0.025	0.100
Endosulfan I			< 0.00250	mg/l		0.025	0.100
p,p-DDE			< 0.00250	mg/I		0.025	0.100
Dieldrin			< 0.00250	mg/I		0.025	0.100
Endrin			< 0.00250	mg/I		0.025	0.100
p,p-DDD			< 0.00250	mg/I		0.025	0.100
Endosulfan II			< 0.00250	mg/l		0.025	0.100
p,p-DDT			< 0.00250	mg/I		0.025	0.100
Endrin aldehyde			< 0.00250	mg/I		0.025	0.100
Endosulfan sulfate			< 0.00250	mg/l		0.025	0.100
Methoxychlor			< 0.00250	mg/I		0.025	0.100
Endrin Ketone			< 0.00250	mg/l		0.025	0.100
Toxaphene			< 0.0250	mg/I		0.025	1.00
Technical Chlordane			< 0.0250	mg/I		0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00390	mg/L	0.025	0.200	78	34.9 - 149
Deca chlorobiphenyl		0.00400	mg/L	0.025	0.200	80	52.2 - 187

Sample: 32006 - 0420041025 (Tank 5)

Analysis: QC Batch:	TCLP Semivolatiles 9235		Analytical Met Date Analyzed			Prep Method: Analyzed By:	TCLP 1311 RC
Prep Batch:	8060		Date Prepared:	2004-	04-21	Prepared By:	JH
			-				
				RL			
Parameter			Flag	Result	Units	Dilution	RL
Pyridine				< 0.0500	mg/L	0.005	10.0
1,4-Dichlorol	benzene (para)			< 0.0500	mg/L	0.005	10.0
o-Cresol				< 0.0500	mg/L	0.005	10.0
m,p-Cresol				< 0.0500	mg/L	0.005	10.0
Hexachloroet	hane			< 0.0500	mg/L	0.005	10.0
Nitrobenzene	;			< 0.0500	mg/L	0.005	10.0
Hexachlorob	utadiene			< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlo	rophenol			< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlo	rophenol			< 0.0500	mg/L	0.005	10.0
2,4-Dinitroto	luene			< 0.0500	mg/L	0.005	10.0
2,4-Dichlorop	ohenoxyacetic acid			< 0.0500	mg/L	0.005	10.0
Hexachlorob	enzene			< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlo	rophenoxyproprionic acid			< 0.0500	mg/L	0.005	10.0
Pentachlorop	henol			< 0.0500	mg/L	0.005	10.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophen		0.0920	mg/L	0.005	80.0	23	2.83 - 110.33
Phenol-d5		0.0508	mg/L	0.005	80.0	13	0 - 82.08
Nitrobenzene	-d5	0.243	mg/L	0.005	80.0	61	26.72 - 155
····			······································			······································	continued

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sample continued ...

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorobiphenyl		0.225	mg/L	0.005	80.0	56	35.89 - 150.5
2,4,6-Tribromophenol		0.266	mg/L	0.005	80.0	66	0 - 204.91
Terphenyl-d14		0.240	mg/L	0.005	80.0	60	33.98 - 168.85

Sample: 32006 - 0420041025 (Tank 5)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	ТР
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	<0.100	mg/L	1	0.100
TCLP Bariur	m	0.619	mg/L	1	0.100
TCLP Cadm	ium	0.254	mg/L	1	0.0500
TCLP Chron	nium	<0.100	mg/L	1	0.100
TCLP Mercu	ıry	<0.0100	mg/L	1	0.0100
TCLP Lead		1.74	mg/L	1	0.100
TCLP Seleni	um	<0.500	mg/L	1	0.500

Sample: 32006 - 0420041025 (Tank 5)

Analysis:TCLP VolatilesQC Batch:9201Prep Batch:8170		Analytical Method:S 8260BDate Analyzed:2004-04-26Date Prepared:2004-04-22		Prep Method: Analyzed By: Prepared By:	TCLP 1311 JG JG	
		RL				
Parameter	Flag	Result	Units		Dilution	RL
Vinyl Chloride		< 0.0500	mg/L		50	0.00100
1,1-Dichloroethene		< 0.0500	mg/L		50	0.00100
2-Butanone (MEK)		< 0.500	mg/L		50	0.0100
Chloroform		< 0.0500	mg/L		50	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L		50	0.00100
Benzene		< 0.0500	mg/L		50	0.00100
Carbon Tetrachloride		< 0.0500	mg/L		50	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L		50	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L		50	0.00100
Chlorobenzene		< 0.0500	mg/L		50	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	-		50	0.00100
				Spike	Percent	Recovery
Surrogate	Flag	Result Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane	U	52.4 mg/L	, 1	50.0	105	82 - 118
Toluene-d8		52.5 mg/L		50.0	105	91 - 107
4-Bromofluorobenzene (4-BFB)		46.9 mg/L		50.0	94	73 - 112

Report Date: April 29, 2004 Runco Mud		Work Order: 404 Runco	Page Number: 15 of 44 Jal,New Mexico		
Sample: 32007 - 0420041036 (Tank 6)				
Analysis: RCI	Analytical I	Method: ASTM D 50)49-90/4978-95	Prep Method:	N/A
QC Batch: 9088	Date Analyz	zed: 2004-04-22		Analyzed By:	JH
Prep Batch: 8073	Date Prepar	ed: 2004-04-22		Prepared By:	JH
Analysis: RCI	Analytical I	Method: S 1110		Prep Method:	N/A
Analysis: RCI	Analytical I	Method: SW-846 Ch	. 7.1	Prep Method:	N/A
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity		non-reactive	·	1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
рН		8.10	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 32007 - 0420041036 (Tank 6)

Analysis: TCLP Pesticides QC Batch: 9175 Prep Batch: 8083		Analytical Method Date Analyzed: Date Prepared:	S 8081A 2004-04-26 2004-04-22	Ana	Method: lyzed By: oared By:	TCLP 1311 AG AG
•		RL	•	-	·	
Parameter	Flag	Result	Units	Diluti	ion	RL
alpha-BHC		< 0.00250	mg/L	0.0		0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.0		0.100
beta-BHC		< 0.00250	mg/L	0.0		0.100
delta-BHC		< 0.00250	mg/L	0.0		0.100
Heptachlor		< 0.00250	mg/L	0.0		0.100
Aldrin		< 0.00250	mg/L	0.0		0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.0		0.100
gamma-Chlordane		< 0.00250	mg/L	0.0		0.100
alpha-Chlordane		< 0.00250	mg/L	0.0		0.100
Endosulfan I		< 0.00250	mg/L	0.0		0.100
p,p-DDE		< 0.00250	mg/L	0.0		0.100
Dieldrin		< 0.00250	mg/L	0.0		0.100
Endrin		< 0.00250	mg/L	0.0)25	0.100
p,p-DDD		< 0.00250	mg/L		025	0.100
Endosulfan II		< 0.00250	mg/L)25	0.100
p,p-DDT		< 0.00250	mg/L)25	0.100
Endrin aldehyde		< 0.00250	mg/L	0.0		0.100
Endosulfan sulfate		< 0.00250	mg/L)25	0.100
Methoxychlor		< 0.00250	mg/L	0.0		0.100
Endrin Ketone		< 0.00250	mg/L	0.0)25	0.100
Toxaphene		< 0.0250	mg/L	0.0)25	1.00
Technical Chlordane		< 0.0250	mg/L	0.0)25	1.00
				Spike Pe	ercent	Recovery
Surrogate	Flag	Result Units	Dilution	-	covery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00410 mg/L	0.025	0.200	82	34.9 - 149
Deca chlorobiphenyl		0.00410 mg/L	0.025	0.200	82	52.2 - 187

Sample: 32007 - 0420041036 (Tank 6)

Analysis:	TCLP Semivolatiles	Analytical Method:	S 8270C	Prep Method:	TCLP 1311
QC Batch:	9235	Date Analyzed:	2004-04-27	Analyzed By:	RC
Prep Batch:	8060	Date Prepared:	2004-04-21	Prepared By:	JH

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.005	10.0
o-Cresol		< 0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol		0.0552	mg/L	0.005	10.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.0657	mg/L	0.005	80.0	16	2.83 - 110.33
Phenol-d5		0.0373	mg/L	0.005	80.0	9	0 - 82.08
Nitrobenzene-d5		0.160	mg/L	0.005	80.0	40	26.72 - 155
2-Fluorobiphenyl		0.146	mg/L	0.005	80.0	36	35.89 - 150.5
2,4,6-Tribromophenol		0.189	mg/L	0.005	80.0	47	0 - 204.91
Terphenyl-d14		0.196	mg/L	0.005	80.0	49	33.98 - 168.85

Sample: 32007 - 0420041036 (Tank 6)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	< 0.100	mg/L	1	0.100
TCLP Bariu	n	0.848	mg/L	1	0.100
TCLP Cadm	ium	0.0520	mg/L	1	0.0500
TCLP Chron	nium	<0.100	mg/L	1	0.100
TCLP Mercu	ıry	< 0.0100	mg/L	1	0.0100
TCLP Lead		0.108	mg/L	1	0.100
TCLP Seleni	um	<0.500	mg/L	1	0.500

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Analysis:TCLP VolatilesQC Batch:9226Prep Batch:8198		Analytica Date Ana Date Prep	•	S 8260B 2004-04-27 2004-04-26		Prep Method: Analyzed By: Prepared By:	TCLP 1311 JG JG
			RL				
Parameter	Flag		Result	Units		Dilution	RL
Vinyl Chloride			< 0.0500	mg/L		50	0.00100
1,1-Dichloroethene			< 0.0500	mg/L		50	0.00100
2-Butanone (MEK)			< 0.500	mg/L		50	0.0100
Chloroform			< 0.0500	mg/L		50	0.00100
1,2-Dichloroethane (EDC)			< 0.0500	mg/L		50	0.00100
Benzene			< 0.0500	mg/L		50	0.00100
Carbon Tetrachloride			< 0.0500	mg/L		50	0.00100
Trichloroethene (TCE)			< 0.0500	mg/L		50	0.00100
Tetrachloroethene (PCE)			< 0.0500	mg/L		50	0.00100
Chlorobenzene			< 0.0500	mg/L		50	0.00100
1,4-Dichlorobenzene (para)			< 0.0500	mg/L		50	0.00100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.0	mg/L	1	50.0	104	82 - 118
Toluene-d8		52.5	mg/L	1	50.0	105	91 - 107
4-Bromofluorobenzene (4-BFB)		46.7	mg/L	1	50.0	93	73 - 112

Sample: 32008 - 0420041050 (White 7)

Analysis:	RCI	Analytical Method:	ASTM D 5049-90/4978-95	Prep Method:	N/A
QC Batch:	9088	Date Analyzed:	2004-04-22	Analyzed By:	ЛН
Prep Batch:	8073	Date Prepared:	2004-04-22	Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110	Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1	Prep Method:	N/A

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Reactivity	·	non-reactive	·····	1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pH		12.2	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 32008 - 0420041050 (White 7)

Analysis: QC Batch:	TCLP Pesticides 9175		Analytical Method: Date Analyzed:	S 8081A 2004-04-26	Prep Method: Analyzed By:	
Prep Batch:	8083		Date Prepared:	2004-04-22	Prepared By:	AG
			RL			
Parameter		Flag	Result	Units	Dilution	RL
alpha-BHC			< 0.00250	mg/L	0.025	0.100
gamma-BHC	C (Lindane)		< 0.00250	mg/L	0.025	0.100
beta-BHC			< 0.00250	mg/L	0.025	0.100

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sample 32008 continued ...

			RL				
Parameter	Flag		Result	Unit	s	Dilution	RL
delta-BHC			< 0.00250	mg/I		0.025	0.100
Heptachlor			< 0.00250	mg/I	- -	0.025	0.100
Aldrin			< 0.00250	mg/I	L	0.025	0.100
Heptachlor Epoxide			< 0.00250	mg/I	L.	0.025	0.100
gamma-Chlordane			< 0.00250	mg/I	L	0.025	0.100
alpha-Chlordane			< 0.00250	mg/I		0.025	0.100
Endosulfan I			< 0.00250	mg/I	Ĺ.	0.025	0.100
p,p-DDE			< 0.00250	mg/I	Ĺ	0.025	0.100
Dieldrin			< 0.00250	mg/I		0.025	0.100
Endrin			< 0.00250	mg/I	Ĺ.	0.025	0.100
p,p-DDD			< 0.00250	mg/I	L	0.025	0.100
Endosulfan II			< 0.00250	mg/I	Ĺ	0.025	0.100
p,p-DDT			< 0.00250	mg/I	L	0.025	0.100
Endrin aldehyde			< 0.00250	mg/I		0.025	0.100
Endosulfan sulfate			< 0.00250	mg/I	L	0.025	0.100
Methoxychlor			< 0.00250	mg/I	L	0.025	0.100
Endrin Ketone			< 0.00250	mg/I	Ľ.	0.025	0.100
Toxaphene			< 0.0250	mg/l	L	0.025	1.00
Technical Chlordane			< 0.0250	mg/I		0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00350	mg/L	0.025	0.200	70	34.9 - 149
Deca chlorobiphenyl		0.00360	mg/L	0.025	0.200	72	52.2 - 187

Sample: 32008 - 0420041050 (White 7)

Analysis:TCLP SemivolatilesQC Batch:9235Prep Batch:8060	Analytica Date Ana Date Prep	-	04-27	Prep Method: Analyzed By: Prepared By:	TCLP 1311 RC JH
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.005	10.0
o-Cresol		< 0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol		<0.0500	mg/L	0.005	10.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.105	mg/L	0.005	80.0	26	2.83 - 110.33
Phenol-d5		0.0584	mg/L	0.005	80.0	15	0 - 82.08
Nitrobenzene-d5		0.244	mg/L	0.005	80.0	61	26.72 - 155
2-Fluorobiphenyl		0.221	mg/L	0.005	80.0	55	35.89 - 150.5
2,4,6-Tribromophenol		0.241	mg/L	0.005	80.0	60	0 - 204.91
Terphenyl-d14		0.229	mg/L	0.005	80.0	57	33.98 - 168.85

Sample: 32008 - 0420041050 (White 7)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	ТР
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver	·	<0.125	mg/L	1	0.125
TCLP Arsen	ic	0.177	mg/L	1	0.100
TCLP Bariu	m	0.657	mg/L	1	0.100
TCLP Cadm	ium	< 0.0500	mg/L	1	0.0500
TCLP Chron	nium	<0.100	mg/L	1	0.100
TCLP Mercu	ıry	<0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Seleni	ium	<0.500	mg/L	1	0.500

Sample: 32008 - 0420041050 (White 7)

.

Analysis:TCLP VolatilesQC Batch:9226Prep Batch:8198		Analytical Met Date Analyzed Date Prepared:	: 2004-04-27	Prep Method Analyzed By Prepared By	r: JG
			RL		
Parameter	Flag	Re	sult Units	Dilution	RL
Vinyl Chloride		< 0.0	500 mg/L	50	0.00100
1,1-Dichloroethene		< 0.0	500 mg/L	50	0.00100
2-Butanone (MEK)		<0.	500 mg/L	50	0.0100
Chloroform		< 0.0	500 mg/L	50	0.00100
1,2-Dichloroethane (EDC)		< 0.0	500 mg/L	50	0.00100
Benzene		< 0.0	500 mg/L	50	0.00100
Carbon Tetrachloride		< 0.0	500 mg/L	50	0.00100
Trichloroethene (TCE)		< 0.0	500 mg/L	50	0.00100
Tetrachloroethene (PCE)		< 0.0	500 mg/L	50	0.00100
Chlorobenzene		< 0.0	500 mg/L	50	0.00100
1,4-Dichlorobenzene (para)		< 0.0	500 mg/L	50	0.00100
				Spike Percent	Recovery
Surrogate	Flag	Result U	nits Dilution	Amount Recovery	Limits
Dibromofluoromethane		52.1 m	ng/L 1	50.0 104	82 - 118
	· · · · · · · · · · · · · · · · · · ·				continued

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sample continued	Flee	D14	1 T : 4-	Dilution	Spike	Percent		overy
Surrogate Toluene-d8	Flag	Result 52.9	Units mg/L	1	Amount 50.0	Recovery 106		mits - 107
4-Bromofluorobenzene (4-BFB)		46.7	mg/L mg/L	1	50.0	93		- 112
Sample: 32009 - 0420041100 (Tar	ık 7)							
Analysis: RCI	Analy	tical Method:	ASTM D	5049-90/4978-9	95	Prep Me	ethod:	N/A
QC Batch: 9088	Date	Analyzed:	2004-04-22			Analyzed By:		JH
Prep Batch: 8073		Prepared:	2004-04-2	22		Prepared		JH
Analysis: RCI		tical Method:	S 1110			Prep Me		N/A
Analysis: RCI	Analy	vtical Method:	SW-846 (Ch. 7.1		Prep Me	ethod:	N/A
			RL					
Parameter F	lag]	Result	Unit	s	Dilution		RL
Reactivity		non-re	active		_	1		0.00
Hydrogen Sulfide			<10.0	mg/K	g	1		10.0
Hydrogen Cyanide			<2.50	mg/K	g	1		2.50
Corrosivity		non-cor		mm/y	r	1		0.00
pH			8.60	S.1	1.	1		0.00
Ignitability		non-igr	nitable			1		0.00

Sample: 32009 - 0420041100 (Tank 7)

Analysis: TCLP Pesticides QC Batch: 9175 Prep Batch: 8083		Analytical Method: Date Analyzed: Date Prepared:	S 8081A 2004-04-26 2004-04-22	Prep Method: Analyzed By: Prepared By:	TCLP 1311 AG AG
		RL			
Parameter	Flag	Result	Units	Dilution	RL
alpha-BHC		<0.00250	mg/L	0.025	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.025	0.100
beta-BHC		< 0.00250	mg/L	0.025	0.100
delta-BHC		< 0.00250	mg/L	0.025	0.100
Heptachlor		< 0.00250	mg/L	0.025	0.100
Aldrin		< 0.00250	mg/L	0.025	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.025	0.100
gamma-Chlordane		< 0.00250	mg/L	0.025	0.100
alpha-Chlordane		< 0.00250	mg/L	0.025	0.100
Endosulfan I		< 0.00250	mg/L	0.025	0.100
p,p-DDE		< 0.00250	mg/L	0.025	0.100
Dieldrin		< 0.00250	mg/L	0.025	0.100
Endrin		< 0.00250	mg/L	0.025	0.100
p,p-DDD		< 0.00250	mg/L	0.025	0.100
Endosulfan II		< 0.00250	mg/L	0.025	0.100
p,p-DDT		< 0.00250	mg/L	0.025	0.100
Endrin aldehyde		< 0.00250	mg/L	0.025	0.100
Endosulfan sulfate		< 0.00250	mg/L	0.025	0.100
Methoxychlor		< 0.00250	mg/L	0.025	0.100
Endrin Ketone		< 0.00250	mg/L	0.025	0.100
Toxaphene		< 0.0250	mg/L	0.025	1.00

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sample 32009 continued ...

			RL				
Parameter	Flag		Result	Uni	ts	Dilution	RL
Technical Chlordane	······································		< 0.0250	mg/L		0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00200	mg/L	0.025	0.200	40	34.9 - 149
Deca chlorobiphenyl	1	0.00210	mg/L	0.025	0.200	42	52.2 - 187

Sample: 32009 - 0420041100 (Tank 7)

Analysis: QC Batch: Prep Batch:	Analytical Method: Date Analyzed: Date Prepared:	S 8270C 2004-04-27 2004-04-21	Prep Method: Analyzed By: Prepared By:	RC
		RL		

		KL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.005	10.0
o-Cresol		< 0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol		< 0.0500	mg/L	0.005	10.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.0989	mg/L	0.005	80.0	25	2.83 - 110.33
Phenol-d5		0.0606	mg/L	0.005	80.0	15	0 - 82.08
Nitrobenzene-d5		0.238	mg/L	0.005	80.0	60	26.72 - 155
2-Fluorobiphenyl		0.214	mg/L	0.005	80.0	54	35.89 - 150.5
2,4,6-Tribromophenol		0.00	mg/L	0.005	80.0	0	0 - 204.91
Terphenyl-d14		0.228	mg/L	0.005	80.0	57	33.98 - 168.85

Sample: 32009 - 0420041100 (Tank 7)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC

¹Surrogate recovery is low due to prep procedure.

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		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsenic		< 0.100	mg/L	1	0.100
TCLP Barium	·	1.59	mg/L	1	0.100
TCLP Cadmium		< 0.0500	mg/L	1	0.0500
TCLP Chromium		< 0.100	mg/L	1	0.100
TCLP Mercury		< 0.0100	mg/L	1	0.0100
TCLP Lead		< 0.100	mg/L	. 1	0.100
TCLP Selenium		< 0.500	mg/L	1	0.500

Sample: 32009 - 0420041100 (Tank 7)

Analysis: TCLP Volatiles QC Batch: 9226 Prep Batch: 8198		Analytical Metho Date Analyzed: Date Prepared:	d: S 8260B 2004-04-27 2004-04-26		Prep Method: Analyzed By: Prepared By:	TCLP 1311 JG JG
1		•			1 5	
_		RI				
Parameter	Flag	Resul			Dilution	RL
Vinyl Chloride		< 0.050) mg/L		50	0.00100
1,1-Dichloroethene		< 0.050) mg/L		50	0.00100
2-Butanone (MEK)		< 0.50) mg/L		50	0.0100
Chloroform		< 0.050) mg/L		50	0.00100
1,2-Dichloroethane (EDC)		< 0.050	mg/L		50	0.00100
Benzene		< 0.050	-		50	0.00100
Carbon Tetrachloride		< 0.050	-		50	0.00100
Trichloroethene (TCE)		< 0.050			50	0.00100
Tetrachloroethene (PCE)		< 0.050	-		50	0.00100
Chlorobenzene		< 0.050	-		50	0.00100
1,4-Dichlorobenzene (para)		< 0.050	-		50	0.00100
				Spike	Percent	Recovery
Surrogate	Flag	Result Uni	ts Dilution	Amount	Recovery	Limits
Dibromofluoromethane	1.45	52.1 mg/		50.0	104	82 - 118
Toluene-d8		0		50.0	104	91 - 107
		0				
4-Bromofluorobenzene (4-BFB)		47.1 mg/		50.0	94	73 - 112

Sample: 32010 - 0420041105 (Tank 8)

Analysis:	RCI	Analytical Method:	ASTM D 5	049-90/4978-95	Prep Method:	N/A
QC Batch:	9088	Date Analyzed:	2004-04-22		Analyzed By:	JH
Prep Batch:	8073	Date Prepared:	2004-04-22		Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110		Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch	. 7.1	Prep Method:	N/A
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Reactivity		non-re	active		1	0.00
Hydrogen Su	ulfide		<10.0	mg/Kg	1	10.0
Hydrogen C	yanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-cor	rosive	mm/yr	1	0.00
pН			9.10	s.u.	1	0.00

Report Date: April 29, 2004 Runco Mud		Work Order: 4042127 Runco			Page Number: 23 of 44 Jal,New Mexico		
sample 32010 continued							
_			RL				
Parameter	Flag		Result	Units		Dilution	RI
Ignitability		non-	-ignitable			1	0.00
Sample: 32010 - 0420041105 ((Tank 8)						
Analysis: TCLP Pesticides		Analyti	ical Method:	S 8081A		Prep Method:	TCLP 1311
QC Batch: 9175		Date A	nalyzed:	2004-04-26		Analyzed By:	AG
Prep Batch: 8083		Date Pr	repared:	2004-04-22		Prepared By:	AG
			RL				
Parameter	Flag		Result	Units		Dilution	R
lpha-BHC			<0.00250	mg/L		0.025	0.10
gamma-BHC (Lindane)			< 0.00250	mg/L		0.025	0.10
beta-BHC			< 0.00250	mg/L		0.025	0.10
lelta-BHC			< 0.00250	mg/L		0.025	0.10
Heptachlor			< 0.00250	mg/L		0.025	0.10
Aldrin			< 0.00250	mg/L		0.025	0.10
Heptachlor Epoxide			< 0.00250	mg/L		0.025	0.10
gamma-Chlordane			<0.00250	mg/Ĺ		0.025	0.10
alpha-Chlordane			< 0.00250	mg/L		0.025	0.10
Endosulfan I			< 0.00250	mg/L		0.025	0.10
o,p-DDE			< 0.00250	mg/L		0.025	0.10
Dieldrin			< 0.00250	mg/L		0.025	0.10
Endrin			< 0.00250	mg/L		0.025	0.10
o,p-DDD			<0.00250	mg/L		0.025	0.10
Endosulfan II			< 0.00250	mg/L		0.025	0.10
o,p-DDT			< 0.00250	mg/L		0.025	0.10
Endrin aldehyde			< 0.00250	mg/L		0.025	0.10
Endosulfan sulfate			< 0.00250	mg/L		0.025	0.10
Methoxychlor	-		< 0.00250	mg/L		0.025	0.10
Endrin Ketone			< 0.00250	mg/L		0.025	0.10
Foxaphene			< 0.0250	mg/L		0.025	1.0
Technical Chlordane		- ·	< 0.0250	mg/L		0.025	1.0
					Spike	Percent	Recover
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene	- ,	0.00290	mg/L	0.025	0.200	58	34.9 - 14
Deca chlorobiphenyl		0.00340	mg/L	0.025	0.200	68	52.2 - 18

Sample: 32010 - 0420041105 (Tank 8)

				and a state of the		
1,4-Dichloro	obenzene (para)		< 0.0500	mg/L	0.005	10.0
Pyridine			< 0.0500	mg/L	0.005	10.0
Parameter		Flag	Result	Units	Dilution	RL
			RL			
Prep Batch:	8060	Date Prej	pared: 2004-04	-21	Prepared By:	Л
QC Batch:	9235	Date Ana	alyzed: 2004-04	-27	Analyzed By:	RC
Analysis:	TCLP Semivolatiles	Analytica	al Method: S 8270C		Prep Method:	TCLP 1311

continued ...

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sample 32010 continued ...

				RL			
Parameter			Flag	Result	Units	Dilution	RL
o-Cresol				< 0.0500	mg/L	0.005	10.0
m,p-Cresol				< 0.0500	mg/L	0.005	10.0
Hexachloroethane				< 0.0500	mg/L	0.005	10.0
Nitrobenzene				< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene				< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol				< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol				< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene				< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacet	ic acid			< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene				< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxypr	roprionic acie	d		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol				< 0.0500	mg/L	0.005	10.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.102	mg/L	0.005	80.0	26	2.83 - 110.33
Phenol-d5		0.0577	mg/L	0.005	80.0	14	0 - 82.08
Nitrobenzene-d5		0.235	mg/L	0.005	80.0	59	26.72 - 155
2-Fluorobiphenyl		0.219	mg/L	0.005	80.0	55	35.89 - 150.5
2,4,6-Tribromophenol		0.246	mg/L	0.005	80.0	62	0 - 204.91
Terphenyl-d14		0.234	mg/L	0.005	80.0	58	33.98 - 168.85

Sample: 32010 - 0420041105 (Tank 8)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9128	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	ТР
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	<0.100	mg/L	1	0.100
TCLP Bariur	m	8.91	mg/L	1	0.100
TCLP Cadm	ium	< 0.0500	mg/L	1	0.0500
TCLP Chron	nium	<0.100	mg/L	1	0.100
TCLP Mercu	ігу	< 0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Seleni	um	< 0.500	mg/L	1	0.500

Sample: 32010 - 0420041105 (Tank 8)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	Prep Method:	TCLP 1311
QC Batch:	9226	Date Analyzed:	2004-04-27	Analyzed By:	JG
Prep Batch:	8198	Date Prepared:	2004-04-26	Prepared By:	JG

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		RL			
Parameter	Flag	Result	Units	Dilution	RL
Vinyl Chloride		< 0.0500	mg/L	50	0.00100
1,1-Dichloroethene		< 0.0500	mg/L	50	0.00100
2-Butanone (MEK)		< 0.500	mg/L	50	0.0100
Chloroform		< 0.0500	mg/L	50	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L	50	0.00100
Benzene		< 0.0500	mg/L	50	0.00100

Tetrachloroethene (PCE) Chlorobenzene 1,4-Dichlorobenzene (para)			<0.0500 <0.0500 <0.0500	mg/L mg/L mg/L		50 50 50	0.00100 0.00100 0.00100
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.5	mg/L	1	50.0	105	82 - 118
Toluene-d8		52.6	mg/L	1	50.0	105	91 - 107
4-Bromofluorobenzene (4-BFB)		46.4	mg/L	1	50.0	93	73 - 112

< 0.0500

< 0.0500

mg/L mg/L 50

50

0.00100

0.00100

Sample: 32011 - 0420041047 (Tank 11)

Carbon Tetrachloride

Trichloroethene (TCE)

Analysis:	RCI	Analytical Method:	ASTM D 5049-90/49	978-95	Prep Method:	N/A	
QC Batch:	9088	Date Analyzed:	2004-04-22		Analyzed By:	ЈН	
Prep Batch	: 8073	Date Prepared:	2004-04-22		Prepared By:	JH	
Analysis:	RCI	Analytical Method:	S 1110		Prep Method:	N/A	
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1		Prep Method:	N/A	
			RL				
Darameter		Flag	Result	Unite	Dilution	RI	

Parameter	Flag	Result	Units	Dilution	KL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pH		8.50	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 32011 - 0420041047 (Tank 11)

Analysis: TCLP Pesticides		Analytical Method:	S 8081A	Prep Method:	TCLP 1311
QC Batch: 9175		Date Analyzed:	2004-04-26	Analyzed By:	AG
Prep Batch: 8083		Date Prepared:	2004-04-22	Prepared By:	AG
		RL			
Parameter	Flag	Result	Units	Dilution	RL
alpha-BHC	<u> </u>	< 0.00250	mg/L	0.025	0.100
gamma-BHC (Lindane)		< 0.00250	mg/L	0.025	0.100
beta-BHC		< 0.00250	mg/L	0.025	0.100
delta-BHC		< 0.00250	mg/L	0.025	0.100
Heptachlor		< 0.00250	mg/L	0.025	0.100
Aldrin		< 0.00250	mg/L	0.025	0.100
Heptachlor Epoxide		< 0.00250	mg/L	0.025	0.100

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sample 32011 continued ...

			RL				•
Parameter	Flag		Result	Units		Dilution	RL
gamma-Chlordane		< 0.00250		mg/L		0.025	0.100
alpha-Chlordane			< 0.00250	mg/l		0.025	0.100
Endosulfan I			< 0.00250	mg/l	ب	0.025	0.100
p,p-DDE			< 0.00250	mg/l	mg/L		0.100
Dieldrin			< 0.00250	mg/l	- 	0.025	0.100
Endrin			< 0.00250	mg/l		0.025	0.100
p,p-DDD			< 0.00250	mg/l		0.025	0.100
Endosulfan II			< 0.00250	mg/l		0.025	0.100
p,p-DDT			< 0.00250	mg/l		0.025	0.100
Endrin aldehyde			< 0.00250	mg/l		0.025	0.100
Endosulfan sulfate			< 0.00250	mg/l		0.025	0.100
Methoxychlor			<0.00250	mg/l	L.	0.025	0.100
Endrin Ketone		< 0.00250		mg/L		0.025	0.100
Toxaphene		< 0.0250		mg/L		0.025	1.00
Technical Chlordane			<0.0250			0.025	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00360	mg/L	0.025	0.200	72	34.9 - 149
Deca chlorobiphenyl		0.00380	mg/L	0.025	0.200	76	52.2 - 187

Sample: 32011 - 0420041047 (Tank 11)

QC Batch:	TCLP Semivolatiles 9235 8060		Analytical Meth Date Analyzed: Date Prepared:	od: S 8270 2004-0 2004-0	4-27	Prep Method: Analyzed By: Prepared By:	TCLP 1311 RC JH
				RL			
Parameter			Flag	Result	Units	Dilution	RL
Pyridine				< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobe	enzene (para)		•	< 0.0500	mg/L	0.005	10.0
o-Cresol				<0.0500	mg/L	0.005	10.0
m,p-Cresol				<0.0500	mg/L	0.005	10.0
Hexachloroeth	ane		•	<0.0500	mg/L	0.005	10.0
Nitrobenzene				<0.0500	mg/L	0.005	10.0
Hexachlorobut	tadiene			<0.0500	mg/L	0.005	10.0
2,4,6-Trichloro	ophenol			<0.0500	mg/L	0.005	10.0
2,4,5-Trichloro	ophenol			<0.0500	mg/L	0.005	10.0
2,4-Dinitrotolu	lene		•	<0.0500	mg/L	0.005	10.0
2,4-Dichloropl	henoxyacetic acid			<0.0500	mg/L	0.005	10.0
Hexachlorober	nzene			<0.0500	mg/L	0.005	10.0
2,4,5-Trichloro	ophenoxyproprionic acid		•	<0.0500	mg/L	0.005	10.0
Pentachloroph	enol		•	< 0.0500	mg/L	0.005	10.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluoropheno		0.110	mg/L	0.005	80.0	28	2.83 - 110.33
Phenol-d5		0.0614	mg/L	0.005	80.0	15	0 - 82.08
Nitrobenzene-	d5	0.258	mg/L	0.005	80.0	64	26.72 - 155
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sample continued ...

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorobiphenyl		0.238	mg/L	0.005	80.0	60	35.89 - 150.5
2,4,6-Tribromophenol		0.264	mg/L	0.005	80.0	66	0 - 204.91
Terphenyl-d14		0.246	mg/L	0.005	80.0	62	33.98 - 168.85

Sample: 32011 - 0420041047 (Tank 11)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9131	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	<0.100	mg/L	1	0.100
TCLP Bariu	m	0.801	mg/L	1	0.100
TCLP Cadm	ium	<0.0500	mg/L	1	0.0500
TCLP Chron	nium	<0.100	mg/L	1	0.100
TCLP Mercu	лгу	< 0.0100	mg/L	1	0.0100
TCLP Lead		<0.100	mg/L	1	0.100
TCLP Seleni	ium	<0.500	mg/L	1	0.500

Sample: 32011 - 0420041047 (Tank 11)

Analysis: TCLP Volatiles QC Batch: 9226 Prep Batch: 8198		Analytical Method: Date Analyzed: Date Prepared:	S 8260B 2004-04-27 2004-04-26		Prep Method: Analyzed By: Prepared By:	TCLP 1311 JG JG
		RL				
Parameter	Flag	Result	Units		Dilution	RL
Vinyl Chloride		< 0.0500	mg/L		50	0.00100
1,1-Dichloroethene		< 0.0500	mg/L		50	0.00100
2-Butanone (MEK)		< 0.500	mg/L		50	0.0100
Chloroform		< 0.0500	mg/L		50	0.00100
1,2-Dichloroethane (EDC)		< 0.0500	mg/L		50	0.00100
Benzene		< 0.0500	mg/L		50	0.00100
Carbon Tetrachloride		< 0.0500	mg/L		50	0.00100
Trichloroethene (TCE)		< 0.0500	mg/L		50	0.00100
Tetrachloroethene (PCE)		< 0.0500	mg/L		50	0.00100
Chlorobenzene		< 0.0500	mg/L		50	0.00100
1,4-Dichlorobenzene (para)		< 0.0500	mg/L		50	0.00100
				Spike	Percent	Recovery
Surrogate	Flag	Result Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.2 mg/L	1	50.0	104	82 - 118
Toluene-d8		53.1 mg/L	1	50.0	106	91 - 107
4-Bromofluorobenzene (4-BFB)		46.6 mg/L	1	50.0	93	73 - 112

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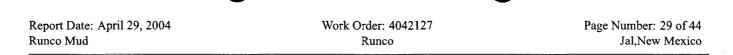
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Sample: 32012 - 0420041125 (Pile)

Analysis: QC Batch: Prep Batch: Analysis: Analysis:	RCI 9088 8073 RCI RCI	Date Analy Date Prepa Analytical 1	Analytical Method:ASTM D 5049-90/4978-95Date Analyzed:2004-04-22Date Prepared:2004-04-22Analytical Method:S 1110Analytical Method:SW-846 Ch. 7.1		Ar Pro Pro	ep Method: N/A halyzed By: JH epared By: JH ep Method: N/A ep Method: N/A
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Reactivity			non-reactive		1	0.00
Hydrogen Su	ulfide		<10.0	mg/Kg	1	10.0
Hydrogen C	yanide		<2.50	mg/Kg	1	2.50
Corrosivity			non-corrosive	mm/yr	1	0.00
pН			8.50	s.u.	1	0.00
Ignitability			non-ignitable		1	0.00

Sample: 32012 - 0420041125 (Pile)

Analysis: TCLP Pesticides OC Batch: 9175		-	tical Method: Analyzed:	S 8081A 2004-04-26		Prep Method: Analyzed By:	TCLP 1311 AG
Prep Batch: 8083		Date F	Prepared:	2004-04-22		Prepared By:	AG
-			•				
			RL				_
Parameter	Flag		Result	Units		Dilution	RL
alpha-BHC			< 0.00250	mg/L		0.025	0.100
gamma-BHC (Lindane)			0.00300	mg/L		0.025	0.100
beta-BHC			<0.00250	mg/L		0.025	0.100
delta-BHC			<0.00250	mg/L		0.025	0.100
Heptachlor			<0.00250	mg/L		0.025	0.100
Aldrin			<0.00250	mg/L		0.025	0.100
Heptachlor Epoxide			< 0.00250	mg/L		0.025	0.100
gamma-Chlordane			<0.00250	mg/L		0.025	0.100
alpha-Chlordane			< 0.00250	mg/L		0.025	0.100
Endosulfan I			<0.00250	mg/L		0.025	0.100
p,p-DDE			<0.00250	mg/L		0.025	0.100
Dieldrin		•	< 0.00250	mg/L		0.025	0.100
Endrin			< 0.00250	mg/L		0.025	0.100
p,p-DDD			< 0.00250	mg/L		0.025	0.100
Endosulfan II			< 0.00250	mg/L		0.025	0.100
p,p-DDT			< 0.00250	mg/L		0.025	0.100
Endrin aldehyde			< 0.00250	mg/L		0.025	0.100
Endosulfan sulfate			< 0.00250	mg/L		0.025	0.100
Methoxychlor			< 0.00250	mg/L		0.025	0.100
Endrin Ketone			< 0.00250	mg/L		0.025	0.100
Toxaphene			< 0.0250	mg/L		0.025	1.00
Technical Chlordane			< 0.0250	mg/L		0.025	1.00
					G . 11 .		
Sumogata	Floo	Decult	I Imite	Dilution	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00340	mg/L	0.025	0.200	68	34.9 - 149
Deca chlorobiphenyl		0.00360	mg/L	0.025	0.200	72	52.2 - 187



Sample: 32012 - 0420041125 (Pile)

Analysis:	TCLP Semivolatiles	Analytical Method:	S 8270C	Prep Method:	TCLP 1311
QC Batch:	9235	Date Analyzed:	2004-04-27	Analyzed By:	RC
Prep Batch:	8060	Date Prepared:	2004-04-21	Prepared By:	JH

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Pyridine		< 0.0500	mg/L	0.005	10.0
1,4-Dichlorobenzene (para)		< 0.0500	mg/L	0.005	10.0
o-Cresol		< 0.0500	mg/L	0.005	10.0
m,p-Cresol		< 0.0500	mg/L	0.005	10.0
Hexachloroethane		< 0.0500	mg/L	0.005	10.0
Nitrobenzene		< 0.0500	mg/L	0.005	10.0
Hexachlorobutadiene		< 0.0500	mg/L	0.005	10.0
2,4,6-Trichlorophenol	د	< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenol		< 0.0500	mg/L	0.005	10.0
2,4-Dinitrotoluene		< 0.0500	mg/L	0.005	10.0
2,4-Dichlorophenoxyacetic acid		< 0.0500	mg/L	0.005	10.0
Hexachlorobenzene		< 0.0500	mg/L	0.005	10.0
2,4,5-Trichlorophenoxyproprionic acid		< 0.0500	mg/L	0.005	10.0
Pentachlorophenol		< 0.0500	mg/L	0.005	10.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.0915	mg/L	0.005	80.0	23	2.83 - 110.33
Phenol-d5		0.0486	mg/L	0.005	80.0	12	0 - 82.08
Nitrobenzene-d5		0.233	mg/L	0.005	80.0	58	26.72 - 155
2-Fluorobiphenyl		0.213	mg/L	0.005	80.0	53	35.89 - 150.5
2,4,6-Tribromophenol		0.259	mg/L	0.005	80.0	65	0 - 204.91
Terphenyl-d14		0.224	mg/L	0.005	80.0	56	33.98 - 168.85

Sample: 32012 - 0420041125 (Pile)

Analysis:	TCLP Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	TCLP 1311
QC Batch:	9131	Date Analyzed:	2004-04-26	Analyzed By:	RR
Prep Batch:	8106	Date Prepared:	2004-04-23	Prepared By:	TP
Analysis:	TCLP Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	TCLP 1311
QC Batch:	9263	Date Analyzed:	2004-04-28	Analyzed By:	BC
Prep Batch:	8192	Date Prepared:	2004-04-28	Prepared By:	BC
		RL			
Parameter	Flag	Result	Units	Dilution	RL
TCLP Silver		<0.125	mg/L	1	0.125
TCLP Arsen	ic	< 0.100	mg/L	1	0.100
TCLP Bariur	n	1.19	mg/L	1	0.100
TCLP Cadm	ium	< 0.0500	mg/L	1	0.0500
TCLP Chron	nium	< 0.100	mg/L	1	0.100
TCLP Mercu	ıry	<0.0100	mg/L	1	0.0100
TCLP Lead		< 0.100	mg/L	1	0.100
TCLP Seleni	um	<0.500	mg/L	1	0.500

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Analysis:TCLP VolatilesQC Batch:9226Prep Batch:8198		Analytica Date Ana Date Prej	•	S 8260B 2004-04-27 2004-04-26		Prep Method: Analyzed By: Prepared By:	TCLP 1311 JG JG	
			RL					
Parameter	Flag		Result	Units		Dilution	RL	
Vinyl Chloride			< 0.0500	mg/L		50	0.00100	
1,1-Dichloroethene			< 0.0500	mg/L		50	0.00100	
2-Butanone (MEK)			< 0.500	mg/L		50	0.0100	
Chloroform			< 0.0500	mg/L		50	0.00100	
1,2-Dichloroethane (EDC)			< 0.0500	mg/L		50	0.00100	
Benzene			< 0.0500	mg/L		50	0.00100	
Carbon Tetrachloride			< 0.0500	mg/L		50	0.00100	
Trichloroethene (TCE)			< 0.0500	mg/L		50	0.00100	
Tetrachloroethene (PCE)			< 0.0500	mg/L		50	0.00100	
Chlorobenzene			< 0.0500	mg/L		50	0.00100	
1,4-Dichlorobenzene (para)			< 0.0500	mg/L		50	0.00100	
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Dibromofluoromethane		52.7	mg/L	1	50.0	105	82 - 118	
Toluene-d8		52.6	mg/L	1	50.0	105	91 - 107	
4-Bromofluorobenzene (4-BFB)		46.8	mg/L	1	50.0	94	73 - 112	

Method Blank (1) QC Batch: 9128

Parameter	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		< 0.100	mg/L	0.1
TCLP Barium		<0.100	mg/L	0.1
TCLP Cadmium		< 0.0500	mg/L	0.05
TCLP Chromium		<0.100	mg/L	0.1
TCLP Lead		<0.100	mg/L	0.1
TCLP Selenium		< 0.500	mg/L	0.5

Method Blank (1) QC Batch: 9131

Parameter	Flag	Result	Units	RL
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.1
TCLP Barium		< 0.100	mg/L	0.1
TCLP Cadmium		< 0.0500	mg/L	0.05
TCLP Chromium		< 0.100	mg/L	0.1
TCLP Lead		<0.100	mg/L	· 0.1
TCLP Selenium		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9175

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Parameter		Flag		Result		Units	RL
alpha-BHC				< 0.00250		mg/L	0.1
gamma-BHC (Lindane)				< 0.00250		mg/L	0.1
beta-BHC				< 0.00250		mg/L	0.1
delta-BHC				< 0.00250		mg/L	0.1
Heptachlor				< 0.00250		mg/L	0.1
Aldrin				< 0.00250		mg/L	0.1
Heptachlor Epoxide				< 0.00250		mg/L	0.1
gamma-Chlordane				< 0.00250		mg/L	0.1
alpha-Chlordane				< 0.00250		mg/L	0.1
Endosulfan I				< 0.00250		mg/L	0.1
p,p-DDE				< 0.00250		mg/L	0.1
Dieldrin				< 0.00250		mg/L	0.1
Endrin				< 0.00250		mg/L	0.1
p,p-DDD				< 0.00250		0.1	
Endosulfan II				< 0.00250		mg/L	0.1
p,p-DDT				< 0.00250		mg/L	0.1
Endrin aldehyde				< 0.00250		mg/L	0.1
Endosulfan sulfate				< 0.00250		mg/L	0.1
Methoxychlor				< 0.00250		mg/L	0.1
Endrin Ketone				< 0.00250		mg/L	0.1
Toxaphene				< 0.0250		mg/L	1
Technical Chlordane				<0.0250		mg/L	1
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2,4,5,6-Tetrachloro-m-xylene		0.00320	mg/L	0.025	0.200	64	34.9 - 149
Deca chlorobiphenyl		0.00350	mg/L	0.025	0.200	70	52.2 - 187

Method Blank (1) QC Batch: 9201

Parameter		Flag		Result	U	nits	RL
Vinyl Chloride	· · · · · · · · · · · · · · · · · · ·			< 0.0500	m	ıg/L	0.001
1,1-Dichloroethene				< 0.0500	m	ig/L	0.001
2-Butanone (MEK)				< 0.500	m	ıg/L	0.01
Chloroform				< 0.0500	m	ig/L	0.001
1,2-Dichloroethane (EDC)				< 0.0500	m	ig/L	0.001
Benzene				< 0.0500	m	ig/L	0.001
Carbon Tetrachloride			<0.0500 mg/L		0.001		
Trichloroethene (TCE)			<0.0500 mg/L		0.001		
Tetrachloroethene (PCE)				< 0.0500	m	ig/L	0.001
Chlorobenzene				< 0.0500	m	ng/L	0.001
1,4-Dichlorobenzene (para)		· · · · · · · · · · · · · · · · · · ·	- I	<0.0500	mg/L		0.001
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		51.1	mg/L	1	50.0	102	82 - 118
Toluene-d8		52.6	mg/L	1	50.0	105	91 - 107
4-Bromofluorobenzene (4-BFB)		47.7	mg/L	1	50.0	95	73 - 112

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Method Blank (1) QC Batch: 9226

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Parameter		Flag		Result	U	nits	RL
Vinyl Chloride				< 0.0500	m	ig/L	0.001
1,1-Dichloroethene				< 0.0500	m	ıg/L	0.001
2-Butanone (MEK)				< 0.500	m	ıg/L	0.01
Chloroform				< 0.0500	m	ıg/L	0.001
1,2-Dichloroethane (EDC)				< 0.0500	m	ıg/L	0.001
Benzene				< 0.0500	m	ıg/L	0.001
Carbon Tetrachloride				<0.0500 mg/L			0.001
Trichloroethene (TCE)				< 0.0500	m	ıg/L	0.001
Tetrachloroethene (PCE)				< 0.0500	m	mg/L	
Chlorobenzene				< 0.0500	m	ig/L	0.001
1,4-Dichlorobenzene (para)				< 0.0500	m	ig/L	0.001
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Dibromofluoromethane		52.7	mg/L	1	50.0	105	82 - 118
Toluene-d8		52.8	mg/L	1	50.0	106	91 - 107
4-Bromofluorobenzene (4-BFB)		47.3	mg/L	1	50.0	95	73 - 112

Method Blank (1) QC Batch: 9235

Parameter		Flag		Result	Units	RL	
Pyridine				<	< 0.0500		10
1,4-Dichlorobenzene (para)			, <	0.0500	mg/L	10	
o-Cresol				<	0.0500	mg/L	10
m,p-Cresol				<	0.0500	mg/L	10
Hexachloroethane				<	0.0500	mg/L	10
Nitrobenzene				<	0.0500	mg/L	10
Hexachlorobutadiene				<	0.0500	mg/L	10
2,4,6-Trichlorophenol				<	0.0500	mg/L	10
2,4,5-Trichlorophenol				<	0.0500	mg/L	10
2,4-Dinitrotoluene				<	0.0500	mg/L	10
2,4-Dichlorophenoxyacet	ic acid			<	< 0.0500		10
Hexachlorobenzene				<	0.0500	mg/L	10
2,4,5-Trichlorophenoxypr	roprionic acie	1		<	0.0500	mg/L	10
Pentachlorophenol				<	0.0500	mg/L	10
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
2-Fluorophenol		0.159	mg/L	0.005	80.0	40	2.83 - 110.33
Phenol-d5		0.106	mg/L	0.005	80.0	26	0 - 82.08
Nitrobenzene-d5		0.270	mg/L	0.005	80.0	68	26.72 - 155
2-Fluorobiphenyl		0.256	0.256 mg/L		80.0	64	35.89 - 150.5
2,4,6-Tribromophenol		0.252	mg/L	0.005	80.0	63	0 - 204.91
Terphenyl-d14		0.291	mg/L	0.005	80.0	73	33.98 - 168.85

Method Blank (1) QC Batch: 9263

	2	
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Parameter	Flag	Result	Units	RL
TCLP Mercury		<0.0100	mg/L	0.01

Duplicate (1) QC Batch: 9088

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Reactivity	non-reactive	non-reactive		1	0	
Hydrogen Sulfide	0.00	0.00	mg/Kg	1	0	20
Hydrogen Cyanide	0.00	0.00	mg/Kg	1	0	20
Corrosivity	non-corrosive	non-corrosive	mm/yr	1	0	20
pH	8.50	8.50	s.u.	1	0	20
Ignitability	non-ignitable	non-ignitable		1	0	20

Laboratory Control Spike (LCS-1) QC Batch: 9128

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Silver	1.23	1.26	mg/L	1	1.25	< 0.00780	98	2	91.1 - 118	20
TCLP Arsenic	4.84	4.91	mg/L	1	5.00	< 0.0590	97	1	81.1 - 123	20
TCLP Barium	10.8	11.0	mg/L	1	10.0	< 0.00340	108	2	86 - 122	20
TCLP Cadmium	2.43	2.48	mg/L	1	2.50	< 0.00270	97	2	84.8 - 124	20
TCLP Chromium	1.03	1.05	mg/L	1	1.00	< 0.00660	103	2	81.7 - 120	· 20
TCLP Lead	4.93	5.02	mg/L	1	5.00	< 0.0370	99	2	86.4 - 123	20
TCLP Selenium	4.40	4.41	mg/L	1	5.00	< 0.100	88	0	84.4 - 111	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: 9131

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Silver	1.23	1.26	mg/L	1	1.25	< 0.00780	98	2	91.1 - 118	20
TCLP Arsenic	4.84	4.91	mg/L	1	5.00	< 0.0590	97	1	81.1 - 123	20
TCLP Barium	10.8	11.0	mg/L	1	10.0	< 0.00340	108	2	86 - 122	20
TCLP Cadmium	2.43	2.48	mg/L	1	2.50	< 0.00270	97	2	84.8 - 124	20
TCLP Chromium	1.03	1.05	mg/L	1	1.00	< 0.00660	103	2	81.7 - 120	20
TCLP Lead	4.93	5.02	mg/L	1	5.00	< 0.0370	99	2	86.4 - 123	20
TCLP Selenium	4.40	4.41	mg/L	1	5.00	< 0.100	88	0	84.4 - 111	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: 9175

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
alpha-BHC	0.00380	0.00380	mg/L	0.025	0.200	< 0.00000800	76	0	40.4 - 155	20
gamma-BHC (Lindane)	0.00380	0.00380	mg/L	0.025	0.200	< 0.00000742	76	0	45.4 - 149	20

continued

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control spikes continued									<u></u>	
-	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
beta-BHC	0.00370	0.00370	mg/L	0.025	0.200	< 0.0000745	74	0	41.8 - 154	20
delta-BHC	0.00400	0.00410	mg/L	0.025	0.200	< 0.00000595	80	2	50.8 - 159	20
Heptachlor	0.00380	0.00380	mg/L	0.025	0.200	< 0.00000885	76	0	43.4 - 149	20
Aldrin	0.00400	0.00420	mg/L	0.025	0.200	< 0.0000118	80	5	40 - 152	20
Heptachlor Epoxide	0.00370	0.00370	mg/L	0.025	0.200	< 0.0000174	74	0	45.3 - 148	20
gamma-Chlordane	0.00370	0.00370	mg/L	0.025	0.200	< 0.00000748	74	0	43.3 - 150	20
alpha-Chlordane	0.00360	0.00370	mg/L	0.025	0.200	< 0.0000135	72	3	44.2 - 147	20
Endosulfan I	0.00370	0.00380	mg/L	0.025	0.200	< 0.0000157	74	3	43.7 - 148	20
p,p-DDE	0.00380	0.00390	mg/L	0.025	0.200	< 0.0000197	76	2	45.5 - 146	20
Dieldrin	0.00380	0.00380	mg/L	0.025	0.200	< 0.00000875	76	0	43.9 - 146	20
Endrin	0.00360	0.00380	mg/L	0.025	0.200	< 0.00000555	72	5	55.2 - 152	20
p,p-DDD	0.00370	0.00360	mg/L	0.025	0.200	< 0.00000890	74	3	48.6 - 150	20
Endosulfan II	0.00400	0.00400	mg/L	0.025	0.200	< 0.00000840	80	0	46.7 - 148	20
p,p-DDT	0.00410	0.00420	mg/L	0.025	0.200	< 0.0000108	82	2	45.3 - 146	20
Endrin aldehyde	0.00380	0.00390	mg/L	0.025	0.200	< 0.00000530	76	2	39.4 - 150	20
Endosulfan sulfate	0.00430	0.00430	mg/L	0.025	0.200	< 0.0000152	86	0	0 - 394	20
Methoxychlor	0.00410	0.00420	mg/L	0.025	0.200	< 0.00000538	82	2	55 - 156	20
Endrin Ketone	0.00390	0.00390	mg/L	0.025	0.200	< 0.00000890	. 78	0	16 - 287	20
Toxaphene	0.0182	0.0209	mg/L	0.025	0.800	< 0.000360	91	14	61 - 122	28
Technical Chlordane	0.0166	0.0165	mg/L	0.025	0.800	< 0.000170	83	1	13 - 153	8

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
2,4,5,6-Tetrachloro-m-xylene	0.00410	0.00410	mg/L	0.025	0.200	82	82	34.9 - 149
Deca chlorobiphenyl	0.00420	0.00420	mg/L	0.025	0.200	84	84	52.2 - 187

Laboratory Control Spike (LCS-1) QC Batch: 9201

		LCS	LCSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Vinyl Chloride		5.30	5.23	mg/L	50	0.100	< 0.00845	106	1	20.8 - 173	20
1,1-Dichloroethene		5.34	5.22	mg/L	50	0.100	< 0.00790	107	2	76.9 - 127	20
2-Butanone (MEK)	2	3.86	4.00	mg/L	50	0.100	< 0.0185	77	4	77.7 - 134	20
Chloroform		5.15	5.03	mg/L	50	0.100	< 0.00480	103	2	78.2 - 124	20
1,2-Dichloroethane (EDC)		5.17	5.11	mg/L	50	0.100	< 0.00470	103	1	52.9 - 129	20
Benzene		5.32	5.16	mg/L	50	0.100	< 0.00520	106	3	87.4 - 116	20
Carbon Tetrachloride		5.14	5.10	mg/L	50	0.100	< 0.00390	103	1	53 - 140	20
Trichloroethene (TCE)		5.25	5.13	mg/L	50	0.100	< 0.00585	105	2	85.9 - 111	20
Tetrachloroethene (PCE)		3.86	3.79	mg/L	50	0.100	< 0.0205	77	2	51.7 - 80.1	20
Chlorobenzene		5.41	5.22	mg/L	50	0.100	< 0.00300	108	4	88.2 - 114	20
1,4-Dichlorobenzene (para)		4.80	4.72	mg/L	50	0.100	< 0.00425	96	2	84.3 - 115	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	50.4	50.4	mg/L	1	50.0	101	101	82.9 - 118

continued ...

²recovery low due to purging characteristics of ketones.

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		LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Toluene-d8	34	52.7	52.7	mg/L	1	50.0	105	105	94.4 - 104
4-Bromofluorobenzene (4-BFB)		48.8	48.8	mg/L	1	50.0	98	98	78.8 - 113

Laboratory Control Spike (LCS-1) QC Batch: 9226

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Vinyl Chloride	5.22	5.30	mg/L	50	0.100	< 0.00845	104	2	20.8 - 173	20
1,1-Dichloroethene	5.15	5.23	mg/L	50	0.100	< 0.00790	103	2	76.9 - 127	20
2-Butanone (MEK)	3.88	4.06	mg/L	50	0.100	< 0.0185	78	4	77.7 - 134	20
Chloroform	4.99	5.00	mg/L	50	0.100	< 0.00480	100	0	78.2 - 124	20
1,2-Dichloroethane (EDC)	5.11	5.14	mg/L	50	0.100	< 0.00470	102	0	52.9 - 129	20
Benzene	5.09	5.14	mg/L	50	0.100	< 0.00520	102	1	87.4 - 116	20
Carbon Tetrachloride	5.10	5.07	mg/L	50	0.100	< 0.00390	102	0	53 - 140	20
Trichloroethene (TCE)	5.07	5.11	mg/L	50	0.100	< 0.00585	101	1	85.9 - 111	20
Tetrachloroethene (PCE)	3.80	3.83	mg/L	50	0.100	< 0.0205	76	1	51.7 - 80.1	20
Chlorobenzene	5.19	5.22	mg/L	50	0.100	< 0.00300	104	0	88.2 - 114	20
1,4-Dichlorobenzene (para)	4.63	4.65	mg/L	50	0.100	< 0.00425	93	0	84.3 - 115	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Dibromofluoromethane	51.4	51.1	mg/L	1	50.0	103	102	82.9 - 118
Toluene-d8	52.2	51.9	mg/L	1	50.0	104	104	94.4 - 104
4-Bromofluorobenzene (4-BFB)	48.7	47.6	mg/L	1	50.0	97	95	78.8 - 113

Laboratory Control Spike (LCS-1) QC Batch: 9235

Deserve		LCS Desult	LCSD	I Incida	D:1	Spike	Matrix Bogult	Dee	סממ	Rec. Limit	RPD Limit
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD		
Pyridine		19.2	19.4	mg/L	1	80.0	<2.41	24	1	12.6 - 50.02	20
1,4-Dichlorobenzene (para)		62.6	63.4	mg/L	1	80.0	<1.93	78	1	13.67 - 139.56	20
o-Cresol		53.5	52.6	mg/L	1	80.0	<1.46	67	2	18.58 - 114.05	20
m,p-Cresol		48.4	46.8	mg/L	1	80.0	<1.19	60	3	10.62 - 252.59	20
Hexachloroethane		65.7	66.6	mg/L	1	80.0	<1.91	82	1	25.17 - 146.78	20
Nitrobenzene		76.6	77.2	mg/L	1	80.0	<1.50	96	1	26.78 - 144.08	20
Hexachlorobutadiene		66.7	67.8	mg/L	1	80.0	<1.57	83	2	0 - 171.61	20
2,4,6-Trichlorophenol		76.5	76.9	mg/L	1	80.0	<1.64	96	0	19.23 - 144.93	20
2,4,5-Trichlorophenol		79.7	79.2	mg/L	1	80.0	<1.95	100	1	40.38 - 144.67	20
2,4-Dinitrotoluene		114	114	mg/L	1	80.0	<2.09	142	0	18.51 - 158.26	20
2,4-Dichlorophenoxyacetic acid	56	144	145	mg/L	1	160	0	90	1	0 - 165.81	20
Hexachlorobenzene		80.0	77.9	mg/L	1	80.0	<1.63	100	3	2.35 - 182.77	20
2,4,5-Trichlorophenoxyproprionic acid	78	133	129	mg/L	1	160	0	83	3	22.1 - 144.74	20

continued ...

³surrogate recovery biased high. Samples non-detect.

⁴surrogate recovery biased high. Samples non-detect.

⁵Changed spike amount from 80 to 160 due to the amount in the spike is double.

 6 Changed spike amount from 80 to 160 due to the amount in the spike is double. ⁷Changed spike amount from 80 to 160 due to the amount in the spike is double.

⁸Changed spike amount from 80 to 160 due to the amount in the spike is double.

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	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Pentachlorophenol	98.0	97.1	mg/L	1	80.0	<3.04	122	1	0 - 156.72	20
		4					1.			

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

Surragata	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Surrogate				1				
2-Fluorophenol	24.3	24.4	mg/L	1	80.0	30	30	2.83 - 110.33
Phenol-d5	14.7	14.6	mg/L	1	80.0	18	18	0 - 82.08
Nitrobenzene-d5	52.8	52.6	mg/L	1	80.0	66	66	26.72 - 155
2-Fluorobiphenyl	45.0	45.6	mg/L	1	80.0	56	57	35.89 - 150.5
2,4,6-Tribromophenol	65.0	64.9	mg/L	1	80.0	81	81	0 - 204.91
Terphenyl-d14	57.7	57.8	mg/L	1	80.0	72	72	33.98 - 168.85

Laboratory Control Spike (LCS-1) QC Batch: 9263

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Mercury	0.0502	0.0499	mg/L	1	0.0500	< 0.00177	100	0	82.3 - 120	20

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

Matrix Spike (MS-1) QC Batch: 9128

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Silver	1.23	1.25	mg/L	1	1.25	< 0.00780	98	2	91.1 - 118	20
TCLP Arsenic	4.75	4.81	mg/L	1	5.00	0.077	93	1	81.1 - 123	20
TCLP Barium	9.92	10.1	mg/L	1	10.0	0.759	92	2	86 - 122	20
TCLP Cadmium	2.38	2.41	mg/L	1	2.50	0.1	91	1	84.8 - 124	20
TCLP Chromium	1.03	1.04	mg/L	1	1.00	0.069	96	1	81.7 - 120	20
TCLP Lead	4.77	4.84	mg/L	1	5.00	0.216	91	1	86.4 - 123	20
TCLP Selenium	4.28	4.27	mg/L	1	5.00	< 0.100	86	0	84.4 - 111	20

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

Matrix Spike (MS-1) QC Batch: 9131

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Silver	1.23	1.26	mg/L	1	1.25	< 0.00780	98	2	91.1 - 118	20
TCLP Arsenic	4.87	4.98	mg/L	1	5.00	< 0.0590	97	2	81.1 - 123	20
TCLP Barium	10.2	10.5	mg/L	1	10.0	0.801	94	3	86 - 122	20
TCLP Cadmium	2.34	2.40	mg/L	1	2.50	0.012	93	2	84.8 - 124	20
TCLP Chromium	1.00	1.03	mg/L	1	1.00	0.016	98	3	81.7 - 120	20
TCLP Lead	4.71	4.84	mg/L	1	5.00	0.038	93	3	86.4 - 123	20
TCLP Selenium	4.39	4.45	mg/L	1	5.00	< 0.100	88	1	84.4 - 111	20

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

Matrix Spike (MS-1) QC Batch: 9175

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Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
alpha-BHC		0.00230	0.00240	mg/L	0.025	0.200	<0.0000800	46	4	0 - 84.7	20
gamma-BHC (Lindane)	910	0.00410	0.00420	mg/L	0.025	0.200	< 0.00000742	82	2	0 - 69.6	20
beta-BHC		0.00320	0.00330	mg/L	0.025	0.200	< 0.00000745	64	3	0 - 80.6	20
delta-BHC		0.00350	0.00350	mg/L	0.025	0.200	< 0.00000595	70	0	0 - 103	20
Heptachlor		0.00270	0.00280	mg/L	0.025	0.200	< 0.0000885	54	4	0 - 70	20
Aldrin		0.00260	0.00270	mg/L	0.025	0.200	< 0.0000118	52	4	0 - 110	20
Heptachlor Epoxide		0.00280	0.00280	mg/L	0.025	0.200	< 0.0000174	56	0	0 - 64.5	20
gamma-Chlordane		0.00290	0.00300	mg/L	0.025	0.200	< 0.00000748	58	3	0 - 122	20
alpha-Chlordane		0.00290	0.00300	mg/L	0.025	0.200	< 0.0000135	58	3	0 - 110	20
Endosulfan I		0.00280	0.00280	mg/L	0.025	0.200	< 0.0000157	56	0	0 - 63.3	20
p,p-DDE		0.00330	0.00340	mg/L	0.025	0.200	< 0.0000197	66	3	0 - 110	20
Dieldrin		0.00290	0.00290	mg/L	0.025	0.200	< 0.00000875	58	0	0 - 66.3	20
Endrin	1112	0.00330	0.00330	mg/L	0.025	0.200	< 0.00000555	66	0	0 - 63.9	20
p,p-DDD		0.00290	0.00290	mg/L	0.025	0.200	< 0.0000890	58	0	0 - 73.1	20
									~	~ ~ ~ ~	

Endosulfan II 0.00260 0.00260 0.025 0.200 < 0.00000840 52 0 0 - 87.9 20 mg/L 0.025 0.200 < 0.0000108 70 3 0 - 153 20 p,p-DDT 0.00350 0.00360 mg/L 0 20 Endrin aldehyde 0.00250 0.00250 mg/L 0.025 0.200 < 0.00000530 50 0 - 73.4 20 Endosulfan sulfate 0.00340 0.00350 mg/L 0.025 0.200 < 0.0000152 68 3 0 - 241 Methoxychlor 0.00380 0.200 < 0.00000538 74 3 0 - 86 20 0.00370 mg/L 0.025 20 0.00290 0.00300 0.025 0.200 < 0.00000890 58 3 0 - 131 Endrin Ketone mg/L

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
2,4,5,6-Tetrachloro-m-xylene	0.00230	0.00240	mg/L	0.025	0.2	46	48	34.9 - 149
Deca chlorobiphenyl	0.00340	0.00350	mg/L	0.025	0.2	68	70	52.5 - 187

Matrix Spike (MS-1) QC Batch: 9201

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Vinyl Chloride		5.17	5.24	mg/L	50	0.100	< 0.00845	103	1	20.8 - 170	20
1,1-Dichloroethene		5.25	5.25	mg/L	50	0.100	< 0.00790	105	0	77.9 - 125	20
2-Butanone (MEK)	1314	3.60	3.64	mg/L	50	0.100	< 0.0185	72	1	84.9 - 134	20
Chloroform		5.09	5.11	mg/L	50	0.100	< 0.00480	102	0	79.5 - 125	20
1,2-Dichloroethane (EDC)		5.25	5.32	mg/L	50	0.100	< 0.00470	105	1	43.4 - 107	20
Benzene		5.25	5.22	mg/L	50	0.100	< 0.00520	105	0	89.2 - 116	20
Carbon Tetrachloride		5.13	5.09	mg/L	50	0.100	< 0.00390	103	1	52.3 - 133	20
Trichloroethene (TCE)		5.14	5.08	mg/L	50	0.100	< 0.00585	103	1	83.5 - 111	20
Tetrachloroethene (PCE)		3.72	3.74	mg/L	50	0.100	< 0.0205	74	0	49.1 - 80.8	20
Chlorobenzene		5.24	5.31	mg/L	50	0.100	< 0.00300	105	1	88.9 - 113	20
1,4-Dichlorobenzene (para)		4.81	4.68	mg/L	50	0.100	< 0.00425	96	3	84.2 - 113	20

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

⁹Analyte recovery is out of control limits, but the LCS and LCSD show the method to be in control.

¹⁰Analyte recovery is out of control limits, but the LCS and LCSD show the method to be in control.

¹¹Analyte recovery is out of control limits, but the LCS and LCSD show the method to be in control.

¹²Analyte recovery is out of control limits, but the LCS and LCSD show the method to be in control.
¹³recovery out of control due to purging characteristics of ketones.

¹⁴recovery out of control due to purging characteristics of ketones.

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	MS	MSD			Spike	MS	MSD	Rec.

Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Dibromofluoromethane	51.8	51.4	mg/L	1	50	104	103	81.6 - 122
Toluene-d8	52.3	52.7	mg/L	1	50	105	105	94.4 - 105
4-Bromofluorobenzene (4-BFB)	48.3	48.0	mg/L	1	50	97	96	81.9 - 108

Matrix Spike (MS-1) QC Batch: 9226

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Vinyl Chloride	5.19	5.32	mg/L	50	0.100	< 0.00845	104	2	20.8 - 170	20
1,1-Dichloroethene	5.12	5.24	mg/L	50	0.100	< 0.00790	102	2	77.9 - 125	20
2-Butanone (MEK)	5.63	5.42	mg/L	50	0.100	< 0.0185	113	4	84.9 - 134	20
Chloroform	4.92	5.09	mg/L	50	0.100	< 0.00480	98	3	79.5 - 125	20
1,2-Dichloroethane (EDC)	5.19	5.30	mg/L	50	0.100	< 0.00470	104	2	43.4 - 107	20
Benzene	5.14	5.30	mg/L	50	0.100	< 0.00520	103	3	89.2 - 116	20
Carbon Tetrachloride	4.92	5.11	mg/L	50	0.100	< 0.00390	98	4	52.3 - 133	20
Trichloroethene (TCE)	5.00	5.19	mg/L	50	0.100	< 0.00585	100	4	83.5 - 111	20
Tetrachloroethene (PCE)	3.66	3.83	mg/L	50	0.100	< 0.0205	73	4	49.1 - 80.8	20
Chlorobenzene	5.16	5.34	mg/L	50	0.100	< 0.00300	103	3	88.9 - 113	20
1,4-Dichlorobenzene (para)	4.70	4.95	mg/L	50	0.100	< 0.00425	94	5	84.2 - 113	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
Dibromofluoromethane	50.8	50.7	mg/L	1	50	102	101	81.6 - 122
Toluene-d8	51.4	52.3	mg/L	1	50	103	105	94.4 - 105
4-Bromofluorobenzene (4-BFB)	46.2	47.1	mg/L	1	50	92	94	81.9 - 108

Matrix Spike (MS-1) QC Batch: 9235

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Pyridine	1516	8.72	8.39	mg/L	1	80.0	<2.41	11	4	12.6 - 50.02	20
1,4-Dichlorobenzene (para)		50.0	49.2	mg/L	1	80.0	<1.93	62	2	13.67 - 139.56	20
o-Cresol		42.8	42.9	mg/L	1	80.0	<1.46	54	0	18.58 - 114.05	20
m,p-Cresol		74.3	75.0	mg/L	1	80.0	<1.19	93	1	10.62 - 252.59	20
Hexachloroethane		53.0	52.8	mg/L	1	80.0	<1.91	66	0	25.17 - 146.78	20
Nitrobenzene		67.3	67.1	mg/L	1	80.0	<1.50	84	0	26.78 - 144.08	20
Hexachlorobutadiene		59.5	59.2	mg/L	1	80.0	<1.57	74	0	0 - 171.61	20
2,4,6-Trichlorophenol		74.7	73.0	mg/L	1	80.0	<1.64	93	2	19.23 - 144.93	20
2,4,5-Trichlorophenol		74.1	74.3	mg/L	1	80.0	<1.95	93	0	40.38 - 144.67	20
2,4-Dinitrotoluene	1718	131	130	mg/L	1	80.0	<2.09	164	1	18.51 - 158.26	20
2,4-Dichlorophenoxyacetic acid	1920	134	136	mg/L	1	160	0	84	1	0 - 165.81	20
Hexachlorobenzene		70.7	70.3	mg/L	1	80.0	<1.63	88	0	2.35 - 182.77	20

continued ...

¹⁵The average of the spike compounds shows that the process is in control. ¹⁶The average of the spike compounds shows that the process is in control. ¹⁷The average of the spike compounds shows that the process is in control.

¹⁸The average of the spike compounds shows that the process is in control.
¹⁹Changed spike amount from 80 to 160 due to the amount in the spike is double.

²⁰Changed spike amount from 80 to 160 due to the amount in the spike is double.

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matrix spikes continued

2-Fluorobiphenyl

Terphenyl-d14

2,4,6-Tribromophenol

*		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
,4,5-Trichlorophenoxyproprionic acid ²¹²²		130	142	mg/L	1	160	0	81	9	22.1 - 144.74	20
Pentachlorophenol		96.5	96.3	mg/L	1	80.0	<3.04	121	0	0 - 156.72	20
Percent recovery is based of	on the spike result.	RPD is b	ased on	the spik	e and	spike dupli	cate resu	lt.			
	MS	MSD				Spil	ke	MS	MS	SD R	ec.
Surrogate	Result	Result	Ur	nits	Dil.	Amo	unt	Rec.	Re	ec. L:	
											mit
2-Fluorophenol	35.8	35.8	m	g/L	1	80)	45	4	5 2.83 -	mit 110.33
2-Fluorophenol Phenol-d5	35.8 21.6	35.8 21.5	•	g/L g/L	1	80 80		45 27	4		

mg/L

mg/L

mg/L

1

1

1

80

80

80

104

154

130

104

152

131

35.89 - 150.5

0 - 204.91

33.98 - 168.85

Matrix Spike (MS-1) QC Batch: 9263

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Mercury	0.0491	0.0503	mg/L	1	0.0500	<0.00177	98	2	80 - 120	20

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

83.6

122

105

83.6

123

104

Matrix Spike (MS-2) QC Batch: 9263

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
TCLP Mercury	0.0489	0.0494	mg/L	1	0.0500	< 0.00177	98	1	80 - 120	20

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

Standard (ICV-1) QC Batch: 9128

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TCLP Silver		mg/L	0.125	0.123	98	90 - 110	2004-04-26
TCLP Arsenic		mg/L	1.00	0.998	100	90 - 110	2004-04-26
TCLP Barium		mg/L	1.00	0.990	99	90 - 110	2004-04-26
TCLP Cadmium		mg/L	1.00	0.991	99	90 - 110	2004-04-26
TCLP Chromium		mg/L	1.00	0.989	99	90 - 110	2004-04-26
TCLP Lead		mg/L	1.00	0.990	99	90 - 110	2004-04-26
TCLP Selenium		mg/L	1.00	0.991	99	90 - 110	2004-04-26

Standard (CCV-1) QC Batch: 9128

 $^{^{21}}$ Changed spike amount from 80 to 160 due to the amount in the spike is double.

²²Changed spike amount from 80 to 160 due to the amount in the spike is double.



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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-04-26
TCLP Arsenic		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Barium		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Cadmium		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Chromium		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Lead		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Selenium		mg/L	1.00	1.00	100	90 - 110	2004-04-26

• Standard (ICV-1) QC Batch: 9131

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TCLP Silver		mg/L	0.125	0.123	98	90 - 110	2004-04-26
TCLP Arsenic		mg/L	1.00	0.998	100	90 - 110	2004-04-26
TCLP Barium		mg/L	1.00	0.990	99	90 - 110	2004-04-26
TCLP Cadmium		mg/L	1.00	0.991	99	90 - 110	2004-04-26
TCLP Chromium		mg/L	1.00	0.989	99	90 - 110	2004-04-26
TCLP Lead		mg/L	1.00	0.990	99	90 - 110	2004-04-26
TCLP Selenium		mg/L	1.00	0.991	99	90 - 110	2004-04-26

Standard (CCV-1) QC Batch: 9131

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TCLP Silver		mg/L	0.125	0.125	100	90 - 110	2004-04-26
TCLP Arsenic		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Barium		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Cadmium		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Chromium		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Lead		mg/L	1.00	1.00	100	90 - 110	2004-04-26
TCLP Selenium		mg/L	1.00	1.00	100	90 - 110	2004-04-26

Standard (ICV-1) QC Batch: 9175

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
alpha-BHC		mg/L	0.100	0.108	108	85 - 115	2004-04-26
gamma-BHC (Lindane)		mg/L	0.100	0.107	107	85 - 115	2004-04-26
beta-BHC		mg/L	0.100	0.109	109	85 - 115	2004-04-26
delta-BHC		mg/L	0.100	0.112	112	85 - 115	2004-04-26
Heptachlor		mg/L	0.100	0.109	109	85 - 115	2004-04-26
Aldrin		mg/L	0.100	0.108	108	85 - 115	2004-04-26
Heptachlor Epoxide		mg/L	0.100	0.109	109	85 - 115	2004-04-26
gamma-Chlordane		mg/L	0.100	0.110	110	85 - 115	2004-04-26
alpha-Chlordane		mg/L	0.100	0.109	109	85 - 115	2004-04-26
Endosulfan I		mg/L	0.100	0.108	108	85 - 115	2004-04-26

continued ...

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standard continued ...

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
p,p-DDE		mg/L	0.100	0.113	113	85 - 115	2004-04-26
Dieldrin		mg/L	0.100	0.112	112	85 - 115	2004-04-26
Endrin		mg/L	0.100	0.105	105	85 - 115	2004-04-26
p,p-DDD		mg/L	0.100	0.102	102	85 - 115	2004-04-26
Endosulfan II		mg/L	0.100	0.110	110	85 - 115	2004-04-26
p,p-DDT		mg/L	0.100	0.108	108	85 - 115	2004-04-26
Endrin aldehyde		mg/L	0.100	0.108	108	85 - 115	2004-04-26
Endosulfan sulfate		mg/L	0.100	0.104	104	85 - 115	2004-04-26
Methoxychlor		mg/L	0.100	0.102	102	85 - 115	2004-04-26
Endrin Ketone		mg/L	0.100	0.102	102	85 - 115	2004-04-26
Toxaphene		mg/L	0.800	0.760	95	85 - 115	2004-04-26
Technical Chlordane		mg/L	0.800	0.895	112	85 - 115	2004-04-26
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limit
2,4,5,6-Tetrachloro-m-xylene		0.106	mg/L	1	0.100	106	34.9 - 149
Deca chlorobiphenyl		0.104	mg/L	1	0.100	104	52.5 - 187

Standard (CCV-1) QC Batch: 9175

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
alpha-BHC		mg/L	0.100	0.0981	98	85 - 115	2004-04-26
gamma-BHC (Lindane)		mg/L	0.100	0.0965	96	85 - 115	2004-04-26
beta-BHC		mg/L	0.100	0.0997	100	85 - 115	2004-04-26
delta-BHC		mg/L	0.100	0.110	110	85 - 115	2004-04-26
Heptachlor		mg/L	0.100	0.0991	99	85 - 115	2004-04-26
Aldrin		mg/L	0.100	0.0944	94	85 - 115	2004-04-26
Heptachlor Epoxide		mg/L	0.100	0.0936	94	85 - 115	2004-04-26
gamma-Chlordane		mg/L	0.100	0.0932	93	85 - 115	2004-04-26
alpha-Chlordane		mg/L	0.100	0.0934	93	85 - 115	2004-04-26
Endosulfan I		mg/L	0.100	0.0964	96	85 - 115	2004-04-26
p,p-DDE		mg/L	0.100	0.109	109	85 - 115	2004-04-26
Dieldrin		mg/L	0.100	0.0994	99	85 - 115	2004-04-26
Endrin		mg/L	0.100	0.108	108	85 - 115	2004-04-26
p,p-DDD		mg/L	0.100	0.0950	95	85 - 115	2004-04-26
Endosulfan II		mg/L	0.100	0.103	103	85 - 115	2004-04-26
p,p-DDT		mg/L	0.100	0.100	100	85 - 115	2004-04-26
Endrin aldehyde		mg/L	0.100	0.0950	95	85 - 115	2004-04-26
Endosulfan sulfate		mg/L	0.100	0.114	114	85 - 115	2004-04-26
Methoxychlor		mg/L	0.100	0.115	115	85 - 115	2004-04-26
Endrin Ketone		mg/L	0.100	0.106	106	85 - 115	2004-04-26
Toxaphene		mg/L	0.800	0.693	87	85 - 115	2004-04-26
Technical Chlordane		mg/L	0.800	0.728	91	85 - 115	2004-04-26
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limit
2,4,5,6-Tetrachloro-m-xylene		0.0958	mg/L	1	0.100	96	34.9 - 149
Deca chlorobiphenyl	<u></u>	0.0921	mg/L	1	0.100	92	52.2 - 187

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Standard (CCV-1) QC Batch: 9201

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Vinyl Chloride		mg/L	50.0	56.0	112	80 - 120	2004-04-26
1,1-Dichloroethene		mg/L	50.0	54.0	108	80 - 120	2004-04-26
2-Butanone (MEK)		mg/L	50.0	53.0	106	80 - 120	2004-04-26
Chloroform		mg/L	50.0	52.0	104	80 - 120	2004-04-26
1,2-Dichloroethane (EDC)		mg/L	50.0	52.0	104	80 - 120	2004-04-26
Benzene		mg/L	50.0	54.0	108	80 - 120	2004-04-26
Carbon Tetrachloride		mg/L	50.0	53.0	106	80 - 120	2004-04-26
Trichloroethene (TCE)		mg/L	50.0	54.0	108	80 - 120	2004-04-26
Tetrachloroethene (PCE)		mg/L	50.0	43.0	86	80 - 120	2004-04-26
Chlorobenzene		mg/L	50.0	55.0	110	80 - 120	2004-04-26
1,4-Dichlorobenzene (para)		mg/L	50.0	50.0	100	80 - 120	2004-04-26

Standard (CCV-1) QC Batch: 9226

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Vinyl Chloride		mg/L	50.0	57.0	114	80 - 120	2004-04-27
1,1-Dichloroethene		mg/L	50.0	53.0	106	80 - 120	2004-04-27
2-Butanone (MEK)	23	mg/L	50.0	36.0	72	80 - 120	2004-04-27
Chloroform		mg/L	50.0	51.0	102	80 - 120	2004-04-27
1,2-Dichloroethane (EDC)		mg/L	50.0	50.0	100	80 - 120	2004-04-27
Benzene		mg/L	50.0	54.0	108	80 - 120	2004-04-27
Carbon Tetrachloride		mg/L	50.0	52.0	104	80 - 120	2004-04-27
Trichloroethene (TCE)		mg/L	50.0	53.0	106	80 - 120	2004-04-27
Tetrachloroethene (PCE)		mg/L	50.0	42.0	84	80 - 120	2004-04-27
Chlorobenzene		mg/L	50.0	54.0	108	80 - 120	2004-04-27
1,4-Dichlorobenzene (para)		mg/L	50.0	48.0	96	80 - 120	2004-04-27

Standard (CCV-1) QC Batch: 9235

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Pyridine		mg/L	60.0	61.3	102	80 - 120	2004-04-27
1,4-Dichlorobenzene (para)		mg/L	60.0	63.2	105	80 - 120	2004-04-27
o-Cresol		mg/L	60.0	61.1	102	80 - 120	2004-04-27
m,p-Cresol		mg/L	60.0	62.7	104	80 - 120	2004-04-27
Hexachloroethane		mg/L	60.0	66.5	111	80 - 120	2004-04-27
Nitrobenzene		mg/L	60.0	66.3	110	80 - 120	2004-04-27
Hexachlorobutadiene		mg/L	60.0	58.6	98	80 - 120	2004-04-27
2,4,6-Trichlorophenol		mg/L	60.0	69.9	116	80 - 120	2004-04-27
2,4,5-Trichlorophenol		mg/L	60.0	67.5	112	80 - 120	2004-04-27
2,4-Dinitrotoluene		mg/L	60.0	62.3	104	80 - 120	2004-04-27
2,4-Dichlorophenoxyacetic acid		mg/L	60.0	69.6	116	80 - 120	2004-04-27
Hexachlorobenzene		mg/L	60.0	63.1	105	80 - 120	2004-04-27
2,4,5-Trichlorophenoxyproprionic acid		mg/L	60.0	67.9	113	80 - 120	2004-04-27

continued ...

²³average of ccv analytes=100 which is within acceptable limits showing analysis to be in control.

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standard continued						a a i		
					CCVs	CCVs	Percent	
D		F las	T		Found	Percent	Recovery	Date
Param Pentachlorophenol		Flag	Units	Conc	Conc. 71.0	Recovery 118	Limits 80 - 120	Analyzed 2004-04-27
Pentachiorophenoi			mg/L	60.0	/1.0	118	80 - 120	2004-04-27
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Diluti	on	Amount	Recovery	Limit
2-Fluorophenol		64.7	mg/L	1		60.0	108	80 - 120
Phenol-d5		59.8	mg/L	1		60.0	100	80 - 120
Nitrobenzene-d5		66.0	mg/L	1		60.0	110	80 - 120
2-Fluorobiphenyl		62.4	mg/L	1		60.0	104	80 - 120
2,4,6-Tribromophenol		67.7	mg/L	1		60.0	113	80 - 120
Terphenyl-d14		64.2	mg/L	1		60.0	107	80 - 120
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.		CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.00500	0.00491		98	90 - 110	2004-04-28
Standard (CCV-1)	QC Batch: 9		CCVs True	CCVs Found		CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	I	Recovery	Limits	Analyzed
TCLP Mercury		mg/L	0.00500	0.00465		93	80 - 120	2004-04-28
Standard (CCV-2)	QC Batch: 9	9263	CCVs	CCVs		CCVs	Percent	
_			True	Found		Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	I	Recovery	Limits 80 - 120	Analyzed 2004-04-28
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