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SITE INSPECTION REPORT

RED PANTHER CHEMICAL COMPANY CLARKSDALE, COAHOMA COUNTY, MISSISSIPPI

U.S. EPA ID No. MSD000272385

Revision 1

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY Region 4 61 Forsyth Street Atlanta, Georgia 30303

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) has tasked the T N & Associates, Inc., (TN&A) Superfund Technical Assessment and Response Team (START) to perform a Site Inspection (SI) under Contract Number (No.) EP-W-05-053, Technical Direction Document (TDD) No. TNA-05-003-0004, at the Red Panther Chemical Company site (Red Panther), EPA Identification (ID) No. MSD000272385, located in Clarksdale, Coahoma County, Mississippi.

The primary objective of a SI is to determine whether a site has the potential to be placed on the National Priorities List (NPL). The NPL identifies sites at which a release, or potential release, of hazardous substances poses a serious enough risk to the public health or the environment to warrant further investigation and possible remediation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Information gathered during the SI is used to generate a Hazard Ranking System (HRS) score. The HRS score is the primary criterion EPA uses to determine whether a site should be placed on the NPL. Generally, SIs are conducted at sites where additional sampling is necessary to fulfill HRS documentation requirements or determine whether a site may be removed from CERCLIS, the CERCLA Information System database. CERCLIS no longer includes sites that EPA has assessed and designated as "No Further Remedial Action Planned," or archive, sites. An archive designation means that, to the best of the EPA's knowledge, Superfund has completed its assessment and determined that no further steps will be taken to list this site on the NPL; however, an archive site is subject to future listing if subsequent information indicates this decision was inappropriate or otherwise incorrect. An archive decision does not necessarily mean that a given site is free of associated hazard; it means only that the location is not considered a potential NPL site based on available information.

Specifically, the objectives of a SI are to accomplish the following:

- Obtain, review, and summarize relevant file material
- • Document current site conditions
- Collect samples to determine the nature and extent of contamination
- Collect samples to establish representative background levels
- Identify and summarize human and ecological target populations
- Evaluate groundwater, surface water, air migration, and soil exposure pathways
- Locate any missing HRS data.

This report documents findings of the SI fieldwork conducted during the week of October 8, 2007, at the Red Panther property. EPA Region 4 and the Mississippi Department of Environmental Quality (MDEQ) supplied the information reviewed for this SI.

2.0 SITE BACKGROUND

This section describes the site and its present and past operations, waste disposal practices, regulatory \sim , history, previous investigations, and potential source areas.

2.1 SITE DESCRIPTION

Red Panther is located at 550 Patton & Leflore Roads, Clarksdale, Coahoma County, Mississippi (see Figure 1, Appendix A) (Ref. 1). The geographic coordinates from the center of the property are 34° 11' 14" north latitude and 90° 33' 43" west longitude. The facility is bordered to the north by commercial property (Graeber Brothers), to the south by Sasse Street, to the east by Patton Street and Normandy Avenue/Leflore Street, and to the west by East Tallahatchie Street/Old Highway 49 South and the Illinois Central Railroad tracks (Refs. 1; 2; 3).

The former Red Panther facility comprises of approximately 6.5 acres (Ref. 3, p. 4). Former operation features included a septic tank and drainfield located on the north side of the property, and three hazardous waste above-ground storage tanks (ASTs) with a total capacity of 33,000 gallons formerly located on the south side of the property. A small wastewater settling basin was located on the east central side of the property (Ref. 3). Several structures remain on the property and are used as storage by Coahoma, Inc. as a storage facility for seeds, cotton, and farm chemicals (see Figure 2, Appendix A).

2.2 GEOLOGY AND HYDROGEOLOGY

Clarksdale is located in the northwestern portion of the State of Mississippi within the Mississippi Delta physiographic province (Ref. 4, pp. 4, 10). The stratigraphic units in this part of the state include, in descending order; the Mississippi River alluvium, Cook Mountain Formation, Sparta Sand, Zilpha Clay and Winona Sand, Tallahatta Formation, and the Wilcox Group (Ref. 5, p. 11).

The alluvium directly underlies the property, dips gently to the south, and is exposed at the surface over its entire area of occurrence. The alluvium ranges from less than 50 feet to more than 200 feet thick, with

an average thickness of 140 feet. The alluvium generally consists of three layers: a discontinuous silty clay layer, a middle sand layer, and a lower gravel layer.

The Cook Mountain underlies the alluvium and is composed of clay and shale. In some portions of northwestern Mississippi, the Cook Mountain confines the underlying Sparta Aquifer (Ref. 3, p. 6). However, geophysical logs of wells near the site suggest that Cook Mountain is approaching a stratigraphic pinch-out in the Clarksdale area.

The Sparta Sand underlies the Cook Mountain and is composed of rounded, well-sorted quartz grains in two or three thick beds separated by beds of clay (Ref. 5, p. 31). The thickness of the Sparta Sand ranges from 420 to 480 feet.

The Zilpha and Winona Formation underlies the Sparta Sand and occurs at approximately 655 feet below land surface (bls) (Ref. 3, p. 6). The Zilpha overlies the Winona and consists of dark-brown clay. The Winona consists of glauconitic fossiliferous sands and clays.

The Tallahatta Formation is hydraulically connected to the overlying Winona and contains several thick to very thin sand beds separated by clay (Ref. 4, pp. 10, 45). Thickness ranges from 50 to 400 feet, with an average thickness of slightly more than 200 feet. The formation dips to the west and southwest.

The Meridian Sand underlies the Tallahatta and is a massive unit consisting of fine-to-coarse micaceous sand that dips west to southwest. The average thickness is approximately 160 feet (Ref. 4, pp. 43, 45).

The Mississippi River Valley Alluvial aquifer is a water table aquifer located along the western boundary of the state and underlies the property (Ref. 5, p. 11). Generally, recharge is from the direct infiltration of rainfall into the aquifer, and water moves to the south and towards streams in the area. Some water moves into the underlying Sparta and Cockfield aquifers, which subcrop below the alluvium in the area. The Cook Mountain Formation acts as a confining unit throughout most of the state; however, it pinches out in the vicinity of the property indicating that the Alluvial and underlying Sparta aquifers are interconnected. Regionally, water in the Sparta flows from east to west (Ref. 4, p. 47). Water bearing sands within the Sparta, many 100 feet or more in thickness, are separated by varying thicknesses of clay. The Zilpha and Winona confining layer, consisting primarily of clay, retards the movement of water from the overlying Sparta Sand into the underlying Meridian-Upper Wilcox aquifer.

The Meridian-Upper Wilcox aquifer consists of the Meridian Sand of the Tallahatta Formation and the uppermost sand beds of the Wilcox Group (Refs. 5, p. 41; 6). These units are regarded as one aquifer because they are hydraulically connected. The Upper Wilcox consists of sandy clay, and the regional movement of water in the aquifer is westward.

The Lower Wilcox is the deepest aquifer underlying the region and consists of a thick sand unit containing over 60 percent sand (Ref. 3, p. 7). The aquifer dips to the southwest in the southern part of the region. Multiple clay beds in the overlying part of the Wilcox hydraulically separate the Lower Wilcox aquifer from overlying aquifers. The Lower Wilcox aquifer occurs approximately 1,900 feet bls and extends to a depth of approximately 2,100 feet in the vicinity of the property.

2.3 SITE OPERATIONS AND REGULATORY HISTORY

Red Panther operated as a pesticide formulation plant between 1949 and 1978 producing liquid and dry herbicides, insecticides, and fungicides (Ref. 2). Chemicals used in the formulation included toxaphene, methyl parathion, chloropyrifos, 2,4-D, malathion, carbaryl, diazinon, methoxychlor, disodium methanearsonate, monosodium acid methanearsonate, chlorothalonil, and parathion (Ref. 7). Contamination on the property is believed to have originated from numerous spills during loading and unloading operations, from leaking transport piping between the process and tank farm areas, contaminated wastewater releases, and from spills and leaking underground piping in the tank farm area (Ref. 8, p. 3).

Previous owners of the facility include Coahoma Chemical Company, Riverside Chemical Company, and MFC Services (Ref. 3). The property is currently used by Coahoma, Inc. as a storage facility for seeds, cotton, and farm chemicals (Ref. 2).

In November 1985, a fire erupted at one of the Red Panther warehouses (Ref. 3, p. 4). Contaminated runoff resulting from the fire-fighting efforts caused a fish kill in the nearby Sunflower River. The contaminant was determined to be Lorox, a slightly toxic herbicide. A large volume of contaminated water was contained on the property and later shipped to a commercial hazardous waste disposal facility. During cleanup of the fire, approximately 382 old fiber drums were discovered in the crawlspace below the warehouse. Of those drums, approximately 287 were empty. The empty drums were crushed and sent to the local municipal landfill. Ninety-five drums contained trace residues of technical grade dieldrin and

were disposed of at a commercial hazardous waste facility (Ref. 3, p. 4). A new warehouse was built over this area in 1986 (Ref. 9).

A query for MSD000272385 in the EPA Envirofacts database listed a site discovery date of November 1, 1979 (Ref. 10). In 1980, Red Panther filed for a Resource Conservation and Recovery Act (RCRA) hazardous waste management activity notification and Part A application for the storage of wastewater and used solvents on site (Refs. 2; 3, p. 3). Wastewater containing pesticide and solvent residues were generated from the cleaning of equipment at the facility. It is not clear whether a storage permit was granted at this time.

In November 1984, the Mississippi Bureau of Pollution Control (MBPC) granted the facility a RCRA Part B permit to store wastewater and spent solvents at the site (Ref. 3). Prior to obtaining the RCRA permit, wastewater and spent solvents were discharged directly to an off-site ditch or into an underground leaching field on the property (Ref. 3). According to Envirofacts, a Preliminary Assessment (PA) was completed on June 1, 1984 (Ref. 10).

In November 1986, the Red Panther storage permit was terminated because Red Panther lost its liability is insurance coverage that is required for long-term storage of hazardous wastes (Ref. 3). At that time, Red Panther reverted to the status of a hazardous waste generator with short-term (less than 90 days) storage only (Ref. 3).

According to Envirofacts, a Site Inspection (SI) was completed on January 31, 1991. The site was listed for archive on January 31, 1992; however, an Expanded Site Inspection (ESI) and Integrated Assessment were listed as completed on February 1, 2000 (Ref. 10).

An Administrative Order on Consent (AOC) between EPA and the Potentially Responsible Party (PRP) was signed on September 4, 2001 (Refs. 7; 10). EPA subsequently submitted the Action Memorandum documenting approval of the proposed removal action (Ref. 8).

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Administrative records were compiled on November 6, 2003. The PRP commenced the removal action on November 11, 2002 and had completed the activities by July 29, 2005 (Ref. 10). On December 22, 2003, EPA announced the availability of the Red Panther Administrative Record for public review (Ref. 11). The Administrative Record includes documents that form the basis for selection of the removal action. The site was removed from the archive list on November 7, 2005 (Ref. 10).

2.4 PREVIOUS RELEASES AND INVESTIGATIONS

In 1984, MBPC conducted a sampling inspection at the site (Refs. 2; 3, pp. 3, 5). Environmental samples were collected around the property to determine and characterize any hazardous substances present. Two composite soil samples were collected from the off-site ditch along Normandy Street and Patton Street (Ref. 3, p. 5). One water sample was collected from where wastewater leaves the property and discharges into the off-site ditch. One subsurface composite soil sample was collected around the septic tank and drainage field. All samples were analyzed for pesticides and total arsenic. Results indicated elevated levels of several pesticides and arsenic in the soil and sediment samples (Ref. 3, p. 5). Additionally, a Preliminary Assessment (PA) was conducted in June 1984, and follow-up sampling was performed in August 1984 (Ref. 3).

In November 1985, due to the warehouse fire, a sample of contaminated runoff resulting from the firefighting effort was collected and analyzed for pesticides. No contaminants were detected (Ref. 3).

On February 22, 1990, MBPC submitted the Preliminary Assessment Reassessment (PAR) to EPA Region 4 (Ref. 3).

On January 31, 1991, MDEQ Office of Pollution Control (MSOPC) submitted a Screening Site Inspection (SSI) Report (Ref. 9). The investigation was conducted November 12 through 13, 1990 (Ref. 12). A total of nine samples were collected during the SSI including one surface soil, three sediment samples, two subsurface soil samples, and three groundwater samples (Ref. 9, p. 10). Background samples were not collected for every matrix; therefore, appropriate comparison could not be established. Samples were analyzed for all compounds listed in the EPA Target Compound List (TCL). According to the 1991 SSI, sediment and soil (surface and subsurface) samples contained high levels of pesticides, metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) (Ref. 9, p. 12). Groundwater samples contained high levels of metals only. Based on these results, MSOPC recommended further investigation on a medium-priority basis (Ref. 9, p. 12).

On January 30, 1992, MDEQ submitted a Site Investigation Prioritization (SIP) to EPA Region 4 (Ref. 13). The SIP recommended that no further remedial action be planned (NFRAP) for Red Panther, based on the 1991 SSI report. The NFRAP recommendation was approved; however, a low waste quantity was assumed due to lack of data (Ref. 13).

In 1999, EPA tasked Tetra Tech EM, Inc. START to conduct surface and subsurface soil sampling of the drainage ditches to the east of the property, the former on-site leaching field and septic tank on the north side of the property, and the rail spur in front of the loading dock that runs along the west side of the property (Ref. 14). Samples were analyzed for RCRA metals and pesticides. The results from the sampling event indicated that the site was contaminated with arsenic, organochlorinated pesticides, and the degradation by-products including, but not limited to, aldrin, chlordane, dieldrin, 4,4'-DDT, endrin, endosulfan II, and toxaphene. The analytical results also revealed a wide concentration range for lead; however, lead concentrations were below the applicable limit for lead in residential soil (Ref. 14, p. 11).

In September 2001, the AOC between the PRP and EPA Region 4 was finalized (Ref. 7). The AOC identified four constituents of concern (COCs) for surface soil criteria and three COCs for subsurface soil criteria. The surface COCs were identified as arsenic, toxaphene, dieldrin, and total chlorinated pesticides (Ref. 7, p. 6). The subsurface COCs were identified as arsenic, toxaphene, and dieldrin (Ref. 7, p. 7).

The PRP retained NewFields and URS Corporation (URS) to perform the work required as part of the AOC. The AOC required the work to be performed in two phases. Phase I consisted of the following components (Refs. 15, 16):

- Preparation of a Phase I Work Plan,
- Excavation of surface soils from drainage ditches between the Red Panther property boundaries and Route 49, and the disposal or temporary stockpiling of the excavated material,
- Characterization of on-site soils and the remaining ditch soils,
- Design of Phase II removal activities, and
- Preparation of a Phase II Work Plan detailing additional removal tasks necessary to complete the requirements of the AOC.

On March 18, 2003, URS submitted the Phase I Removal Action Report and the Phase I Soil Characterization Report (Refs. 15, 17). Based on the results, URS recommended addressing the soils exceeding performance standards in the Phase II Work Plan, and addressing disposal options for the stockpiled soils in Ditch 1 in the Phase II Work Plan (Ref. 15, p. 10). Both reports were approved by EPA in April 2003 (Ref. 16, p. 2). Details of the Phase I activities are summarized in Section 2.6.1 of this report.

Phase II of the removal action consisted of on-site soil removal activities (Ref. 16). On October 14, 2005, URS and Newfields submitted the Phase II Soil Removal Report for Red Panther (Ref. 16). The PRP Group requested a "No Further Action" and termination of the order based on the successful completion of the AOC requirements. The AOC requirements were completed by implementing the Phase I off-site ditch characterization and removal in 2002, the Phase I characterization of the on-site soils in 2002 and 2003, and the Phase II soil removal in 2005 (Ref. 16). Details of the Phase II activities are summarized in Section 2.6.2 of this report.

All PRP removal activities were overseen and documented by Weston Solutions, Inc. (Weston) START-2 at the request of EPA. After completion of the removal activities, EPA tasked Weston to conduct an environmental assessment of the nearby 18th Street Neighborhood located just west of Red Panther. On December 22, 2005, Weston submitted a Final Removal Assessment Letter Report for the 18th Street Neighborhood site (Ref. 18). EPA currently plans to utilize the data generated from the 18th Street investigation and Red Panther to conduct an analysis of potential long term threat to human health and the environment (Ref. 18). Details of the 18th Street Neighborhood investigation are discussed in Section 2.6.3 of this report.

2.4.1 Phase I Activities

On April 1, 2002, EPA approved the Phase I Work Plan submitted by the PRP (Ref. 19). Modifications to the Phase I Work Plan were submitted to EPA on August 24, 2002 (Ref. 20). The revised Phase I Work Plan was approved on September 4, 2002 (Ref. 16, p. 6). On November 12, 2002, Weston START-2 mobilized to perform oversight of contractor and subcontractor activities at Red Panther (Ref. 2). URS was the primary contractor for the PRP. URS retained HEPACO Incorporated (HEPACO) to conduct the planned site work (Ref. 15).

Contaminated soils in the drainage ditches on the east side of the site were removed (Ref. 15, p. 5). The soils from these ditches were analyzed for VOCs, Toxicity Characteristic Leachate Procedure (TCLP) SVOCs, TCLP metals, and TCLP pesticides for waste profiling. The 0 to 2 foot level of the soil was excavated from the ditches and was profiled as non-hazardous waste (Ref. 15, p. 5). These soils were loaded directly into trucks for disposal in the Waste Management, Subtitle D Landfill, located in Robinson, Mississippi. The soil from the 1 to 2 foot level from one of the ditches was profiled as hazardous waste and was stockpiled inside a concrete berm on site to be removed during the Phase II activities, since these soils exceeded TCLP criteria (Ref. 15, p. 6). During these activities, approximately

900 tons of soil was removed from four of the six on-site ditches. Due to high levels of arsenic found in two of the drainage ditches, URS recommended that a chain link security fence be installed around the ditches to prevent public access, and the soil removal be addressed in the Phase II Work Plan (Ref. 15, p. 2).

During the Phase I removal activity, URS retained W.L. Burle Engineers, Inc., in Greenville, Mississippi, to conduct soil characterization sampling (Ref. 19, p. 4). Area B, located on the northern side of the site, was segregated into 20 grids for surface and subsurface soil sampling. A five-point composite surface sample was collected from each grid (Ref. 17, p. 5). Single point aliquots from each composite sample were also collected in the event that the analysis from the composite sample indicated that further analysis was required. Two borings were completed in each grid using direct push technology (DPT). Each of these soil borings was sampled at the 0 to 2 foot, 2 to 6 foot, and 6 to 10 foot bls intervals. These levels were used in determining the vertical extent of the contamination (Ref. 17, p. 5). The surface soil analytical results indicated the presence of arsenic (Ref. 17, p. 6). The highest concentrations of arsenic occurred in the grids located along the retaining wall at the northern property boundary. Generally, Area B surface soils were not impacted by chlorinated pesticides above the performance standards. The subsurface analytical results were similar to the surface soil composite data. The elevated concentrations of arsenic appeared to decrease with increasing depth (Ref. 17, p. 6).

Area C consisted of the railroad spur on the western side of the site (Ref. 17, p. 7). There were five sets of DPT borings completed along the railroad spur. Each pair consisted of one DPT boring on the north side and one on the south side of the track. Each of these borings was sampled at the 0 to 2 foot, 2 to 6 foot, and 6 to 10 foot bls intervals. These levels were used in determining the vertical extent of the contamination. The analytical data indicated that the soils along the railroad spur adjacent to the tank farm contained arsenic (Ref. 17, p. 8). Reportedly, arsenic dry products were off-loaded from railroad cars in this area. Total chlorinated pesticides, dieldrin, and toxaphene were detected further to the south along the railroad spur at the location of DPT-CP3. Reportedly, the railcar off-loading of liquid pesticides occurred in this area of the spur. The area around CP3 also received storm water drainage from the roofs of several buildings and along the railroad tracks (Ref. 17, p. 8).

Area D was located on the southern side of the site (Ref. 17, p. 8). Area D was segregated into 11 grids. A five-point composite surface sample was collected from each grid. Single aliquots from each composite sample were collected in the event that the analysis from the composite sample indicated further analysis was required. Two DPT boring were completed in each grid. Each of these soil borings

was sampled at the 0 to 2 foot, 2 to 6 foot, and 6 to 10 foot bls intervals. These levels were used in determining the vertical extent of the contamination. The surface soil analytical results indicated the surface soils contained chlorinated pesticides. The arsenic concentrations detected in the surface soils in Area D were significantly less than those detected in Area B and Area C. The DPT soil sample analytical data indicated that the pesticide concentrations occurred mainly in the surficial soils (0 to 2 foot) and decreased significantly in concentration in the 2 to 6 foot and 6 to 10 foot intervals (Ref. 17, p. 8).

2.4.2 Phase II Activities

Phase II of the AOC consisted of the removal of soils impacted above the performance standards. Phase II was divided into two stages consisting of an Interim Removal and the Removal Action (Refs. 2, 16). In October 2004, URS, Newfields, and HEPACO mobilized to Red Panther to begin the Interim Removal, and to prepare the site for the Phase II Soil Removal. The Interim Removal addressed the following items:

- The contents of eight ASTs ranging in size from 200 gallons (trailer mounted tank) up to 15,000 gallons in the Area B tank farm were cleaned out, the contents disposed off site, and the tanks cut up and the metal recycled (32.64 tons). The tanks contained various amounts of solids and/or liquids impacted with arsenic and/or pesticides. The contents of the tanks were shipped to Waste Management's treatment facility in Emelle, Alabama.
- The rail line (approximately 700 feet) and portions of the loading dock (approximately 117 tons) in Area C were removed so the soils impacted above the performance standards could be removed during the Phase II Soil Removal.
- The non-hazardous contents of a silo in Area D were removed and the silo dismantled for scrap metal.
- Ditch 1 soils (approximately 60 tons) that were stockpiled on site during the November 2002 offsite ditch removal were shipped off site to the Waste Management Sulphur, Louisiana Subtitle C facility for bioremediation. The soils were classified as a characteristic hazardous waste for toxaphene and endrin.

In March 2005, the Phase II Soil Removal was initiated (Ref. 16). The following is a summary of the items addressed during the removal:

- A total of 1,180 tons of non-hazardous concrete was demolished during the removal and shipped off site to the Waste Management Tunica Subtitle D landfill located in Robinson, Mississippi. The hazardous concrete (32 tons) was disposed of as hazardous debris at the Waste Management facility in Emelle, Alabama.
- In Area B, a total of 5,341.27 tons of arsenic impacted soils were removed and shipped to the Emelle, Alabama facility for stabilization. Another 200 tons of pesticide impacted soils were excavated from a portion of Area B and stockpiled in Area D with the hazardous pesticide soils.

Approximately 4,800 tons of non-hazardous soils of the site wide total 14,396.70 tons were excavated from Area B and shipped off site to the Tunica Subtitle D landfill. All surface soils (0 to 2 feet) in Area B were excavated and replaced with clean backfill. The final subsurface confirmation sample results for Area B were 248.5 milligrams per kilogram (mg/kg) of arsenic, 5.4 mg/kg of toxaphene, and 0.6 mg/kg of dieldrin, which meet the performance standards outlined in the AOC.

In Area C, a total of 1,903.73 tons of hazardous pesticide impacted soils were removed and shipped to the Onyx facility in Port Arthur, Texas for incineration. In addition to the hazardous pesticide soils, approximately 2,500 tons of non-hazardous soils of the site wide total of 14,396.70 were excavated from Area C and shipped off site to the Tunica Subtitle D landfill. All surface soils in Area C were excavated and replaced with clean backfill. The final subsurface confirmation sample results for Area C were 131.7 mg/kg of arsenic, 102.8 mg/kg of toxaphene, and 7.1 mg/kg of dieldrin, which meets the performance standards.

• In Area D, an estimated 6,550 tons of non-hazardous soils of the site wide 14,396.70 tons were excavated and shipped to Tunica Subtitle D landfill. All surface soils in Area D were excavated and replaced with clean backfill. The final subsurface confirmation sample results were 11.7 mg/kg of arsenic, 92.1 mg/kg of toxaphene, and 8.4 mg/kg of dieldrin, which meets the performance standards.

- The off-site ditches (Area A) were re-sampled on June 20 and 21, 2005 to determine if the soils had been re-impacted above the surface soil performance standards since the 2002 off-site ditch removal. Based on the analytical results, it was determined the surface soils (0 to 2 feet) required removal from Ditches 1, 3, and 4. In Ditch 1, the 65-foot segment that required additional excavation form the 2002 removal was excavated to a depth of 6 feet bls. Approximately 550 tons of non-hazardous soils were excavated from the ditches and transported off site for disposal at the Tunica D Subtitle D landfill. The final subsurface confirmation sample results were 14.2 mg/kg of arsenic, 6.4 mg/kg of toxaphene, 0.8 mg/kg of dieldrin, and 4.7 mg/kg of total chlorinated pesticides, which meets the performance standards.
- During the removal, approximately 160,000 gallons of storm water was pumped from areas being excavated or backfilled during the removal. The storm water was contained, treated, sampled, and discharged to the City of Clarksdale Publicly Owned Treatment Works (POTW). The water was treated using a treatment system consisting of a pretreatment frac tank, micron filtration, followed by liquid phased carbon absorption. A permit for the discharge was not required under Mississippi regulations if the amount discharged on a daily basis did not exceed 20,000 gallons. All discharges met the City of Clarksdale discharge requirements.
- Dust control measures were implemented during the removal activities on an as needed basis and consisted of wetting the haul routes with a water truck equipped with a spray bar. All the air monitoring data indicated the respirable dust action levels of 0.25 milligrams per cubic meter were not exceeded during the removal activities.
- Following the soil excavation activities, the site was restored to the pre-removal conditions. The site was graded and covered with gravel and secured by a new 6-foot chain link security fence.

2.4.3 18th Street Neighborhood

The 18th Street Neighborhood is a residential area located to the west of Red Panther (Ref. 1). The site consists of single family dwellings on approximately 0.25 acre lots. The area of interest included properties on 14th, 15th, 16th, 17th, 18th, 19th, and West Tallahatchie Streets (Ref. 18).

On August 9, 2005, Weston began collecting samples for EPA at the 18th Street Neighborhood (Ref. 18, p. 4). A total of 31 composite samples including a background (SN-01-SS) were collected from residential yards. The background sample from the B.F. McLaurin Park was collected as a reference point to determine what direct impact Red Panther might have had on the soils in the neighborhood. On August 10, 2005, four active municipal groundwater supply wells were sampled (Ref. 18, p. 5). Of these four wells, two were shallow wells (approximately 600 feet deep) and two were deep wells (approximately 1,000 feet deep). Weston was also tasked with collecting three sediment samples from the Sunflower River because a storm water drain runs directly from Red Panther, under the 18th Street Neighborhood, to the Sunflower River. However, after investigating the river bank for access points to collect the samples, EPA determined that there were no suitable places to safely obtain the sediment samples (Ref. 18).

All samples were analyzed for pesticides, aluminum, arsenic, and iron (Ref. 18). Of the 30 residences sampled, 26 soil samples were elevated above background concentrations for pesticides. Dieldrin was elevated above the EPA Preliminary Remediation Goal (PRG) value of 0.03 mg/kg in 11 of the samples. Toxaphene was above the EPA PRG value of 0.44 mg/kg in four samples. No pesticides were detected in the groundwater samples. No metals were detected at elevated concentrations in any samples (Ref. 18).

Weston concluded that the standard quantization limit (SQL) for pesticides in the data analysis was an extremely low value and that pesticides are typically present at some levels in agricultural areas such as Coahoma County (Ref. 18, p. 6).

2.5 POTENTIAL SOURCE AREAS

The sources previously identified and documented at Red Panther include contaminated soils and on-site tank contents (Refs. 15, 16, 17). Red Panther is approximately 6.5 acres in size. Numerous buildings and other structures occupy the majority of the site; therefore, it is assumed that no more than half the site

(3.25 acres) is available as a contaminated soil source. Soil sampling conducted in the Phase I and Phase II investigations also support this assumption. In addition, eight ASTs were present on site. The contents of these tanks, as documented in manifests, consisted of 150,000 pounds of arsenic-contaminated sludge in Tanks 1, 2, 3, 5, 6, and 7 (Ref. 16). Tanks 4 and 8 consisted of 83,000 pounds of arsenic and pesticide-contaminated sludge. Therefore, the total estimated amount of arsenic and pesticide-contaminated tank sludge is 233,000 pounds.

Source contaminants include, but are not limited to, the following: arsenic, dieldrin, toxaphene, endrin, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, heptachlor, heptachlor epoxide, alpha-chlordane, gamma-chlordane, gamma-BHC (lindane), methoxychlor, and endosulfan II (Refs. 9, 15, 16, 17). These contaminants were documented to exist in association with historical operations on site. Further, pesticides and arsenic were detected in samples collected on site.

The removal activities conducted at the property do not constitute a qualified removal because the removal activities were not conducted prior to the cutoff date (the first SI) applicable to the site (Ref. 21). The Phase I and Phase II removal actions were conducted after the 1990 SI (Refs. 9, 15, 16). Therefore, all sources existing after the SI were considered "eligible" for purposes of this HRS Reassessment Report.

No source currently exists at Red Panther; however, pesticide contamination is documented to exist in the nearby 18th Street Neighborhood, a migration pathway (Ref. 18). Municipal groundwater samples were not detected at elevated concentrations compared to background.

3.0 SI ACTIVITIES

This section outlines the sampling procedures used at Red Panther during the field sampling event conducted by TN&A the week of October 8, 2007 (see Appendices D and E). Individual subsections address the sampling investigation and rationales for specific SI activities. The SI was conducted in accordance with the EPA-approved *Site Sampling Plan – Revision 0*, dated August 10, 2007.

3.1 SAMPLE COLLECTION METHODOLOGY AND PROCEDURES

Due to a lack of updated information related to the presence or absence of site-attributable contaminants in the groundwater beneath and surrounding the site, START personnel collected water samples from nine temporary monitoring wells, one on-site permanent monitoring well, and four municipal wells during the week of October 8, 2007 (see Appendix D). Sampling locations are illustrated in Figures 3 and 4 located in Appendix A and summarized in Tables 1 and 2 located in Appendix B. All sample collection activities and procedures were performed in accordance with the November 2001 EPA Region 4 *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (EISOPQAM). As listed in Table 3, additional quality assurance/quality control (QA/QC) samples such as blanks, duplicates, and matrix spike/matrix spike duplicate samples were collected as required by the EISOPQAM. Table 4 located in Appendix B illustrates sample analytical methodology, containers, and preservatives.

Miller Drilling Company (Miller) installed nine on-site temporary monitoring wells using a Geoprobe[®] equipped with DPT. All temporary monitoring wells were 1 inch in diameter and were installed between 25 feet from top of casing (TOC) to 45 feet from TOC, depending on the depth to water. Wells were developed and sampled with either a peristaltic pump or micro bladder pump and Teflon[®]-lined tubing. Eight temporary monitoring wells were installed around the perimeter of the property; one temporary monitoring well was installed in the center of the property (see Figure 4). One well, RP-TW-02, was installed in the northernmost portion of the property and was determined in the field to be the "control" location based on depth to water measurements. The control well was used for comparison purposes to the on-site temporary monitoring wells for HRS-elevated determinations. Using standard purging techniques, the wells were purged until water quality parameters (temperature, pH, conductivity, turbidity) stabilized or a minimum of three well volumes. Continuous groundwater quality parameters were obtained using a Horiba U-22 and were recorded in the field logbooks as presented in Appendix D. Temporary monitoring well samples were analyzed for VOCs, SVOCs, metals plus mercury, cyanide, and pesticides. Due to insufficient water volume, SVOCs and cyanide were not analyzed on samples RP-TW-01 and RP-TW-03. SVOCs were not analyzed on samples RP-TW-05 and RP-TW-07.

One on-site permanent monitoring well (RP-OMW-01) was sampled using standard purging techniques with a peristaltic pump and dedicated Teflon[®]-lined tubing. The well was pumped until water quality parameters (temperature, pH, conductivity, turbidity) stabilized. Continuous groundwater quality

parameters were obtained using a Horiba U-22 and were recorded in the logbook (see Appendix D). Samples for VOCs, SVOCs, metals plus mercury, cyanide, and pesticides analyses were collected for the permanent monitoring well. A duplicate sample (RP-OMW-02) was collected from the permanent monitoring well, as required by the EPA EISOPQAM.

START collected groundwater samples from four municipal wells located within 4 miles of the property (see Figure 3). The two Clarksdale Utilities municipal wells of potential concern are located approximately 0.25 mile from the site. One well, located to the southwest of Red Panther, is screened in the Meridian-Upper Wilcox Aquifer (RP-MW-02). The background well sampled for comparison to this well is located in the Town of Lyon, which is also screened in the Meridian-Upper Wilcox Aquifer (RP-MW-01). The second well of potential concern is located immediately south of the site and is screened in the Sparta Aquifer (RP-MW-04). The background well sampled for comparison to this well is located approximately 1.5 miles northeast of the site and is also screened in the Sparta Aquifer (RP-MW-03). A duplicate sample (RP-MW-05) was collected from RP-MW-02, as required by the EPA EISOPQAM. The municipal well groundwater samples were placed into the appropriate containers, preserved, and placed on ice in accordance with the EPA EISOPQAM.

An equipment rinsate blank was collected and analyzed to evaluate the cleanliness of all sampling equipment. Trace-level concentrations of several contaminants were identified in the metals, trip, and equipment rinsate blanks. All concentrations of contaminants were considered when reviewing the final analytical data (see Appendix C for the complete analytical data set).

3.2 ANALYTICAL SUPPORT AND METHODOLOGY

All on-site groundwater samples collected during the SI were processed and tracked using the *FORMS II* Lite[©] sample tracking software. EPA selected the analytical service providers through the Contract Laboratory Program (CLP). CLP laboratories (Bonner Analytical Testing Company and Shealy Environmental) analyzed groundwater samples for EPA TCL VOCs, SVOCs, pesticides and polychlorinated biphenyls (PCBs), Target Analyte List (TAL) metals, and cyanide. The CLP laboratories submitted all analytical data to EPA Region 4 Science and Ecosystems Support Division (SESD) for analytical validation and compliance with CLP terms. Validated data for this report were then submitted to START. Analytical data sheets are presented as Appendix C.

All off-site municipal well water samples were submitted to TestAmerica Laboratories, Inc., located in Savannah, Georgia (see Appendix C). Municipal well water samples were analyzed for VOCs (EPA Method 524.2), SVOCs (EPA Methods 525.2, 515.1, 504.1), chlorinated pesticides (EPA Method 508), organochlorine pesticides and PCBs (SW846 Methods 8081A and 8082), metals (EPA Methods 200.7 and 200.8), and cyanide (MCAWW 335.4).

3.3 ANALYTICAL DATA QUALITY AND DATA QUALIFIERS

All analytical data are subject to a QA review, as described in the EPA SESD laboratory data evaluation guidelines. In the text and analytical data tables in this SI report, some concentrations of organic and inorganic parameters are qualified with a "J". A "J" qualifier indicates that the qualitative analysis is acceptable; although the quantitative value is only estimated. Results of some sample analyses are qualified with a "U", meaning that the constituent was analyzed for but undetected. The reported number is the laboratory-derived SQL for the constituent in that sample. Few results were qualified with a "N", meaning that there is presumptive evidence that the analyte is present. Sample results qualified with an "R" indicate the data were rejected and unusable.

4.0 PATHWAYS

This section discusses the groundwater migration, surface water migration, soil exposure, and air migration pathways associated with an HRS evaluation, the targets associated with each pathway, and pathway-specific conclusions. Sampling locations and analytical results for samples collected from the specific pathways are also discussed.

4.1 GROUNDWATER MIGRATION PATHWAY

The groundwater migration pathway is of primary concern at Red Panther because all drinking water in the study area comes from groundwater sources. According to MDEQ, a major municipal drinking water supplier in the area is the City of Clarksdale, which operates 10 wells ranging from approximately 600 to 1,300 feet deep (Ref. 22). Eight of the wells draw water from the shallow Sparta Aquifer, and two wells draw water from the deep Meridian-Upper Wilcox Aquifer. The City of Clarksdale maintains 7,353 connections per well, serving a total population of 20,809 and resulting in an average population per well of 2,081. Clarksdale Public Utilities (CPU) maintains one well, located within 4 miles from Red Panther (Refs. 1, 22). The well draws water from the Meridian-Upper Wilcox Aquifer. CPU maintains 10,432

connections for this well, serving a total population of 29,523. The Town of Lyon maintains one well within 2 to 3 miles from the site. The well also draws water from the Meridian-Upper Wilcox Aquifer. The Town of Lyon maintains 183 connections to this well, serving a population of 518 people. All municipal wells in the area are located within Wellhead Protection Areas (Ref. 22).

Private wells exist within a 4 mile radius of Red Panther (Refs. 1, 22). One documented private well is located within a 4 mile radius of the site. The well draws water from the Meridian-Upper Wilcox Aquifer from approximately 1,200 feet. The population served by private wells was calculated by multiplying the total number of houses served by private wells within each radial ring by 2.83, the average number of people per household based on the 2000 U.S. Census (Ref. 23). Numerous irrigation wells are also documented to exist within 4 miles of Red Panther (Ref. 22). These wells draw water from the Mississippi River Valley Alluvial Aquifer at approximately 94 to 164 feet.

4.1.1 Groundwater Analytical Results

Fourteen groundwater samples were collected during the SI; nine temporary well samples, four municipal well samples, and one on-site permanent monitoring well sample. Groundwater sampling locations are illustrated in Figures 3 and 4 located in Appendix A and described in Tables 1 and 2 located in Appendix B. Background samples for the municipal and temporary wells were collected and were discussed in Section 3.1. Groundwater analytical results are presented in Tables 5 through 7 located in Appendix B. HRS-elevated concentrations are shaded in the tables. For secondary comparison purposes, EPA Maximum Contaminant Levels (MCLs) are included in the right-hand column. Concentrations exceeding MCLs are bolded.

Temporary Monitoring Wells

Temporary monitoring wells were installed and sampled from the Red Panther property. The well depths ranged from 25:12 feet to 47.8 feet (see Table 8). The water depths ranged from 9.3 feet to 34.72 feet. Compared to the control sample (RP-TW-02), HRS-elevated concentrations of contaminants were detected in all wells except one, RP-TW-01. Elevated contaminants included ten pesticides, 16 metals, and six VOCs. Of the elevated contaminants, gamma-BHC, arsenic, barium, beryllium, cadmium, chromium, lead, and 1,2-dibromo-3-chloropropane (DBCP) exceeded MCLs.

Permanent Monitoring Well

One on-site permanent monitoring well was sampled on the Red Panther property. The well depth was measured at 47.8 feet deep. This well was labeled as MW-02. Pesticides and metals were detected in the well. Since no background well could be established for comparison, the sample results were compared to MCLs. Arsenic was detected above the MCL.

Municipal Wells

Four municipal wells were sampled within the 4-mile radius of the Red Panther property. The background well for the Meridian Upper-Wilcox Aquifer (Deep) was RP-MW-01. The deep background well was used for comparison to RP-MW-02. No contaminants were found to be elevated according to the HRS. The background well for the Sparta Aquifer (Shallow) was RP-MW-03. The shallow background well was used for comparison to RP-MW-04. Several metals including barium, copper, iron, lead, manganese, and zinc were detected at elevated concentrations compared to the background sample. All results were below their respective MCLs, with the exception of lead, which was detected at 39 μ g/L, above the MCL of 15 μ g/L.

4.2 SURFACE WATER MIGRATION PATHWAY

The surface water pathway is of minimal concern at Red Panther and was not investigated during this SI.

4.3 SOIL EXPOSURE PATHWAY

No source currently exists at Red Panther; however, the soil exposure pathway is of primary concern at Red Panther since elevated detections of pesticides were present in residential soil samples collected from the 18th Street Neighborhood, located just west of the site (Ref. 18). Pesticides elevated above background were detected in 26 of 30 residential soil samples. Dieldrin and toxaphene were also above EPA PRGs in numerous samples. Metals were analyzed for, but not detected at elevated concentrations. Residences at 18th Street Neighborhood occupy 0.25 acre lots.

Residential neighborhoods are located less than 0.25 mile to the west of the site (Ref. 1). A population of 660 was determined to live within 0.25 mile of the site; 2,268 people are located within 0.5 mile; and, 8,212 people are located within 1 mile (Ref. 24). Four schools, Booker T. Washington Elementary, W.A. Higgins Junior High School, Myrtle Hall III Elementary School, and Myrtle Hall 4 Elementary School;

are within 1 mile of the site. The nearest school, Booker T. Washington Elementary, is approximately 0.3 mile to the west of the site (Ref. 25).

A fence currently surrounds Red Panther (Refs. 2, pp. 1, 7; 16, p. 23). No known terrestrial-sensitive environments exist on site.

4.4 AIR MIGRATION PATHWAY

The air migration pathway is of minimal concern at Red Panther and was not investigated during this SI.

5.0 SUMMARY AND CONCLUSIONS

Red Panther is a 6.5 acre property that operated as a pesticide formulation plant between 1949 and 1978 producing liquid and dry herbicides, insecticides, and fungicides. Chemicals used in the formulation included toxaphene, methyl parathion, chloropyrifos, 2,4-D, malathion, carbaryl, diazinon, methoxychlor, disodium methanearsonate, monosodium acid methanearsonate, chlorothalonil, and parathion. Contamination on the property is believed to have originated from numerous spills during loading and unloading operations, from leaking transport piping between the process and tank farm areas, contaminated wastewater releases, and from spills and leaking underground piping in the tank farm area.

No sources currently exist at Red Panther due to the removal activities conducted by the PRP under an AOC; however, the sources previously identified and documented at Red Panther include contaminated soils and on-site tank contents. Soil sampling conducted in the Phase I and Phase II investigations support the assumption that about half of the site (3.25 acres) is subject to contaminated soils. In addition, eight ASTs were present on site prior to the removal activities. The contents of these tanks, as documented in manifests, consisted of 233,000 pounds of arsenic and pesticide-contaminated tank sludge.

Source contaminants, documented to exist in association with historical operations on site, include but are not limited to, the following: arsenic, dieldrin, toxaphene, endrin, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, heptachlor, heptachlor epoxide, alpha-chlordane, gamma-chlordane, gamma-BHC (lindane), methoxychlor, and endosulfan II.

As part of this SI, START personnel collected water samples from nine temporary monitoring wells, one on-site permanent monitoring well, and four municipal wells during the week of October 8, 2007. HRS-

elevated concentrations of contaminants were detected in the groundwater samples collected during the investigation. HRS-elevated constituents detected in the temporary wells included ten pesticides, 16 metals, and six VOCs. Of these elevated contaminants, arsenic, 4,4'-DDT, dieldrin, endrin, and gamma-BHC (Lindane) are assumed to be attributed to former site activities. In addition, gamma-BHC and arsenic exceeded MCLs. HRS-elevated constituents detected in the municipal wells include barium, copper, iron, lead, manganese, and zinc; however, none are attributed to former site activities. All other groundwater contamination is assumed to exist due to sources outside of the Red Panther property.

In addition to the Red Panther property, a soil sampling investigation was conducted at the nearby 18th Street Neighborhood (Ref. 18). Pesticides were detected in 26 of 30 soil samples collected from residential yards (Ref. 18). The soil exposure pathway is of primary concern at the site based on the elevated levels of site-attributable contaminants at Level I and Level II concentrations in residential yards surrounding the site.

The site was assessed using two scenarios based on the aquifers underlying the property. The first scenario was evaluated using a potential to release to the deeper Wilcox aquifer and the second scenario was evaluated using an observed release to the uppermost Sparta aquifer. Both scenarios at the site generate an HRS score above the HRS cutoff value of 28.5. Further activity at the site will be determined by EPA.

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APPENDIX A

Figures









APPENDIX B

Tables

TABLE 1 OFF-SITE MUNICIPAL WELL SAMPLE LOCATIONS RED PANTHER CHEMICAL COMPANY

Sample Number	Location	Rationale	
RP-MW-01	Background; Town of Lyon municipal well screened in the Meridian-Upper Wilcox Aquifer	Establish background conditions for comparison to RP-MW-02	
RP-MW-02	Southwest of the site; Clarksdale Utilities municipal well screened in the Meridian-Upper Wilcox Aquifer	Determine presence or absence of hazardous constituents	
RP-MW-03	Background; Clarksdale Utilities municipal well screened in the Sparta Aquifer	Establish background conditions for comparison to RP-MW-04	
RP-MW-04	South of the site; Clarksdale Utilities municipal well screened in the Sparta Aquifer	Determine presence or absence of hazardous constituents	

Notes: RP

Red Panther

MW

Municipal Well

TABLE 2				
ON-SITE GROUNDWATER SAMPLE LOCATIONS				
RED PANTHER CHEMICAL COMPANY				

Sample Number	Location	Rationale	
RP-TW-01	Northern portion of site; Located near Product Storage Building and Liquid Blending Facility	Determine presence or absence of hazardous constituents	
RP-TW-02	Background; To be determined in the field	Establish background conditions for comparison to other on-site samples	
RP-TW-03	West of Liquid Blending Facility; Northern portion of site	Determine presence or absence of hazardous constituents	
RP-TW-04	East of Product Storage Building; Adjacent to Ditch 1	Determine presence or absence of hazardous constituents	
RP-TW-05	. West of former drum storage area; Adjacent to railroad spur	Determine presence or absence of hazardous constituents	
RP-TW-06	West of Liquid Blending Facility and Storage Building; Southern portion of site	Determine presence or absence of hazardous constituents	
RP-TW-07	Former drum waste storage tank area	Determine presence or absence of hazardous constituents	
RP-TW-08	Southernmost corner of site; Near southern ditch	Determine presence or absence of hazardous constituents	
RP-TW-09	East of Warehouse; Near southern ditch	Determine presence or absence of hazardous constituents	
RP-OMW-01	On-site monitoring well (MW-2)	Determine presence or absence of hazardous consituents	

Notes: RP TW OMW

Red Panther Temporary Well On-Site Monitoring Well

TABLE 3 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES RED PANTHER CHEMCIAL COMPANY

Sample Number	Location	Rationale
RP-MW-05	Duplicate municipal well sample of RP-MW-02	Verify that laboratory can duplicate results
RP-OMW-02	Duplicate monitoring well sample of RP-OMW-01	Verify that laboratory can duplicate results
RP-DS-01	Drum Sample of IDW (Purge water and/or decon water)	Determine how IDW should be disposed of
RP-TB-01 RP-TB-02 RP-TB-03 RP-TB-04	Trip Blank (Day 1) Trip Blank (Day 2) Trip Blank (Day 3) Trip Blank (Day 4)	Determine if unknown site conditions or sample handling procedures are influencing sample results
RP-MB-01	Metals Blank	Determine if unknown site conditions or sample handling procedures are influencing sample results
RP-PB-01	Preservative Blank	Verify that preservative is not influencing sample results
RP-RB-01	Rinsate Blank	Verify that decontamination procedures adequately clean equipment

Notes:

RPRed PantherMWMunicipal WellTWTemporary WellIDWInvestigation-Derived WastePBPreservative Blank

TBTrip BlankRBRinsate BlankDSDrum SampleMBMetals Blank

TABLĖ 4

ANALYTICAL METHODOLOGY, SAMPLE CONTAINERS, AND PRESERVATIVES **RED PANTHER CHEMICAL COMPANY**

Matrix	Analysis	EPA Method	Sample Container	Preservative
	VOC		Three 40-mL vials with septa	HCl; Cool to 4 °C
Water	SVOC Pesticides PCB Metals	CLP	Two 1-Liter Amber jar Two 1-Liter Amber jar Two 1-Liter Amber jar	Cool to 4 °C Cool to 4 °C Cool to 4 °C
	Cyanide		One 1-Liter poly jar	NaOH; Cool to 4 °C

Notes:

Volatile Organic Compounds

VOC SVOC Semivolatile Organic Compounds

PCB Polychlorinated Biphenyl

Contract Laboratory Program Degree Celsius CLP

°C

Hydrochloric Acid Nitric Acid HCL ·

HNO₃

mL Milliliter

NaOH Sodium hydroxide

TABLE 5 MUNICIPAL WELL ANALYTICAL RESULTS SUMMARY RED PANTHER CHEMICAL COMPANY

	Meridian Upper-Wilcox Aquifer (Deep)		Sparta Aquifer (Shallow)			
Analyte (µg/L)	RP-MW-01 Background	RP-MW-02	RP-MW-05 Duplicate of RP-MW-02	RP-MW-03 Background	RP-MW-04	MCL (µg/L)
	Town of Lyon Well	Clarksdale Utilities Well	Clarksdale Utilities Well	Clarksdale Utilities Well	Clarksdale Utilities Well	
SVOCs					•	
Bis(2-ethylhexyl)phthalate	1.9 U	1.9 U	2 Ü	1.9 U	0.87 J	NL
Metals						
Antimony	0.5 U	0.5 U	0.5 U	0.5 U	0.15 J	6
Barium	12	3.5	3.5	11	110	2,000
Cadmium	0.1 U	0.1 U	0.1 U	0.1 U	0.082 J	5
Chromium	1.6 U	1.3 U	1.5 U	1.4 U	1.4 U	100
Copper	8.9	4.6	4.7	8.7	56	1,300 *
Iron	86	52	55	80	260	NL -
Lead	1.1	0.76	. 0.8	0.75	39	15 *
Manganese	10 U	3.7 J	3.8 J	2.9 J	48:7	NL
Mercury	0.051 J	0.092 U	0.094 U	0.045 J	0.099 U	2
Selenium	0.85	0.61	0.48 J	0.76	0.61	50
Zinc	6.4 J	4.8 J	20 U	32	100	NL

Notes:

Bold - Constituent is elevated above the action limit

Shaded - Constituent is elevated above the background

SVOC - Semivolatile organic compound

RP - Red Panther

NL - Not Listed

MW - Municipal well

µg/L - Micrograms per liter

MCL - EPA Maximum Contaminant Level

U - Constituent not detected. Number is the Sample Quantitation Limit

J - Estimated value; Result is less than the Reporting Limit, but greater than or equal to the Method Detection Limit

* - MCL not listed; however, lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water.
TABLE 6 TEMPORARY WELL ANALYTICAL RESULTS SUMMARY RED PANTHER CHEMICAL COMPANY

Compound (µg/L)	RP-TW-02 Background	RP-TW-01	RP-TW-03	RP-TW-04	RP-TW-05	RP-TW-06	RP-TW-07	RP-TW-08	RP-TW-09	MCL
Pesticides										
4,4'-DDT (p,p'-DDT)	0.015 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ	°‴€0.78 J	0.1 UJ	0.1 UJ	NL
Aldrin	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.025 NJ	0.05 UJ	0.18 J 💭	0.05 UJ	0.05 UJ	NL
alpha-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	1.7 J#S	0.05 UJ	9.5 J	0.05 UJ	0.022 J	NL
alpha-Chlordane	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UR	0.007 J	0.072 UJ	0.05 UJ	0.05 UJ	NL
beta-BHC	0.05 UJ	0.05 UR	0.05 UJ	0.05 UJ	9.4 J	0.05 UJ	1.2 J	0.05 UJ	5:0.68 J	NL
delta-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.78 UR	0.05 UJ	5.3 J 👬	0.05 UJ	0.05 UJ	NL
Dieldrin	0.1 UJ	0.011 J	0.1 UJ	0.1 UJ	0.019 NJ	0.1 UJ		0.1 UJ	0.1 UJ	NL
Endrin	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ	1.4 J	0.1 UJ	0.1 UJ	2
Endrin aldehyde	0.1 UJ	0.1 UJ	0.1 UJ -	0.1 UJ	0.1 UR	0.1 UJ	7 0.26 J	0.1 UJ	0.1 UJ	NL
Endrin ketone	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UR	0.1 UJ		0.1 UJ	0.024 J	NL
gamma-BHC (Lindane)	0.01 NJ	0.05 UJ	0.05 UJ	0.05 UJ		0.015 NJ	12 J 🛼	0.05 UJ .	0.051 J	0.2 .
gamma-Chlordane	0.05 UJ	0.05 UJ	0.006 J	0.008 J	0.05 UR	0.05 UJ	0.024 NJ	0.05 UJ	0.05 UJ	NL
Metals, Total										
Aluminum .	6,300	13000	31000	110000	20000	180 J	5200	21000	11000	50–200°
Arsenic	10 UJ	10 UJ	10 UJ		21 J	: 29 J	10 UJ	10 UJ	10 UJ	10
Barium	. 120 J	290	620	3200	1200	400	530 · · · ·	590	· 320	2,000
Beryllium	0.62 J	0.7 J	: 3.9 J 🦓	10	15	5U.	0.36 J	1.7 J	0.8 J	4
Cadmium	5 U	5 U	5 U	5 U	s i 13 👾 🔂	5 U	-5 U	5 U	5 U	5
Chromium	6.8 J	14	43-7	120 -	25	1.1 J	5.9 J	23	13	100
Cobalt	3.8 UJ	6.1 UJ	33 UJ	93	140	1.7 UJ	3.6 UJ	21 UJ	6.9 UJ	NL
Copper	25 U	3.8 J	21 J	170	170	25 U	25 U	25	3.6 J	1,000*
Iron	12,000	13000	120000	250000	s 88000	6300	12000	¥ 38000 4.	11000	300°
Lead	10 U	10 U	26	120	120 🖉 👘	10 U	10 U	20	5.1 J	15
Magnesium	100,000	19000	160000	180000	120000	41000	38000	39000	26000	NL
Manganese	2,400	1100	11000	17000	9800 🐭	3100	1700	2900	550	50 °
Mercury	0.2 U	0.099 UJ	0.28	0.8	0.2 U	0.2 U	0.2 U	0.12 UJ	0.11 UJ	2
Nickel	5.8 J	12 J	76 🦓 🦷	210	480 🐝	40 U	2.9 J	47	14 J	NL
Vanadium	16 J	27 J	93,J	-300 J	190 J 🐘 .	50 UJ	12 J	🤽 🗢 59 (J 😪)	27 J	NL
Zinc	32 UJ	43 UJ	180 J	500 J. 🗤	🤮 350 J 🛸	4.3 UJ	33 UJ	🐘 - 120 J 📖	47 UJ	5,000
Volatile Organic Compounds	;				-		•			
(m- and/or p-)Xylene	5 U	5 U	5 U	5 U	5 U	5 U		5 U	5 U	NL
1,2-Dibromo-3-Chioropropane	5.11	5.11	5.1	5.11	0.60	É U	140	5.11	5.11	0.2
1.2-Dichlorobenzene	50	50	50	50	5.0	50	0.76	5.0	5.0	600
1.4-Dichlorobenzene	5.0	5.0	511	5.0	5.0	5.11	131	50	50	75
Acetone	10 11	20.11	10 11	10 11	60	10.11	10 11	10 11	10 11	NI
Benzene	5 U	5.0	5.0	5.0	5 U	50	19 J	5.0	5 11	5
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	3 J	5 U	5 U	100
Chloroform	5 U	5 U	5 U	5 U	0.77 J	5 U	5 U	5 U	5 U	NL
Ethyl Benzene	5 U	5 U	5 U	5 U	5 U	5 U	12	5 U	5 U	NL
Isopropylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	12	5 U	5 U	NL
Methyl T-Butyl Ether (MTBE)	5 U	5 U	5 U	5 U	5 U	5 U	1.3 J	5 U	5 U	NL
o-Xylene	5 U	5 U	5 U	5 U	50	5 U	51	5 U	5 U	NL
Toluene	5 U	5 U	50	5 U	0.52 J	5 U	0.52 J	5 U	5 U	1.000

TABLE 6 TEMPORARY WELL ANALYTICAL RESULTS SUMMARY **RED PANTHER CHEMICAL COMPANY**

Notes:

Shaded - Constituent is elevated above the background result

Bold - Constituent is elevated above the action limit

µg/L - Micrograms per liter

U - Constituent not detected

- J The identification of the analyte is acceptable; the reported value is an estimate.
- R The data are rejected and considered unusable.
- N Presumptive evidence that the analyte is present
- RP Red Panther
- TW Temporary well
- MCL EPA Maximum Contaminant Level
- NL No action limit is established
- a National Secondary Drinking Water Standard

TABLE 7 PERMANENT WELL ANALYTICAL RESULTS SUMMARY RED PANTHER CHEMICAL COMPANY

Compound (µg/L)	RP-OMW-01	MCL		
Pesticides				
Heptachlor epoxide	0.034 NJ	0.2		
Metals, Total				
Aluminum	6000	50–200 ^a		
Arsenic	21 J	10		
Barium	940	2,000		
Beryllium	0.51 J	4		
Chromium	9.6 J	100		
Copper	0.98	1,300ª		
Iron	100,000	300 ^a		
Magnesium	34000	NL		
Manganese	3,200	50 ^a		
Nickel	5.2 J	NL		
Silver	1 J	100 ^a		
Vanadium	16 J	NL		

Notes:

- Bold Constituent is elevated above the action limit
- OMW On-Site Monitoring Well
 - RP Red Panther
 - NJ Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
 - J The identification of the analyte is acceptable; the reported value is an estimate.
- MCL Maximum Contaminant Level
- µg/L Micrograms per liter
 - a National Secondary Drinking Water Standard
- NL No action limit established

APPENDIX C

Analytical Data



December 21, 2007

4SESD-MTSB

. MEMORANDUM

SUBJECT:	FINAL Analytical Report
	Project: 08-0029, Red Panther Chemical Co
	Superfund Remedial
FROM:	Charlie Appleby
	Quality Assurance Section Chemist
THRU:	Marilyn Maycock, Chief
	Quality Assurance Section
τO·	Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses included in this report:

Method Used:

Organochlorine Pesticides (OCP) Organochlorine pesticides

CLP Pesticides



Report Narrative for Work Order C074201, Project: 08-0029 Data Review and Validation Report Site Name: Red Panther Chemical, Clarksdale, MS Case No. 36903 ELEMENT Nos. C074201-01 - C074201-20 Sampling Dates: 10/07 - 11/07

Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of fifteen water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below.

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in



sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Organic Analysis: Shealy Environmental, West Columbia, SC

The ESAT Work Team reviewed data for eighteen water samples analyzed for volatiles, semivolatile extractables, aroclors, and pesticides, per CLP statement of work SOM01.2. The samples were received by the laboratory between 10/10/07 and 10/12/07, and the data package was received on 11/05/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The laboratory scored within warning limits for all spiked compounds in the water volatile PES except for 1,2,3-trichlorobenzene which was scored as action low and 4-methyl-2-pentanone and 1,4-dioxane which were both scored as warning low. Also the laboratory reported the presence of both methylene chloride and trichloroethene which were both scored as PES contaminants at less than the CRQL. The laboratory did not analyze this PES concurrently with the actual field samples, and it was not used to qualify data.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results associated with the volatile DMC 1,2-dichloropropane-d6, which had a low recovery, were "J" qualified in sample C074201-03 (D46W6). Low semivolatile extractable DMC recoveries were observed in samples C074201-14 (D46T0), C074201-15 (D46T1), C074201-03 (D46W6), C074201-04 (D46W7), C074201-05 (D46T2), C074201-07 (D46T9), C074201-08 (D46W4), and C074201-10(D46W1). All analytes associated with these DMCs were "J" qualified unless the DMC recovery was less than 10% ("R" qualified).

All pesticide surrogate recoveries (<10% for decachlorobiphenyl) were low in sample C074201-02 (D46W2) for both the original analysis and the reextraction. All positive pesticide results were "J" qualified and all nondetected pesticide results were "R" qualified in this sample. Low decachlorobiphenyl recoveries were reported for samples C074201-03 (D46W6), C074201-05 (D46T2), C074201-06 (D46T8), C074201-09 (D46W0), C074201-11 (D46W3), C074201-14 (D46T0), and C074201-15 (D46T1). The laboratory reextracted all of these samples outside technical holding time limits, except for C074201-05 (D46T2) due to insufficient sample volume remaining, because the associated method blank (PBLK14) also had low decachlorobiphenyl recovery. Similar recoveries were reported for the reextractions. All positive results and all nondetect pesticide results were "J" qualified whenever these low recoveries exceeded 10% in these seven samples. Nondetect results were "R" qualified whenever surrogate recoveries were less than 10%.

All aroclor results were "J" qualified in samples C074201-08 (D46W4), C074201-14 (D46T0) and C074201-15 (D46T1) due to low recoveries for the surrogate decachlorobiphenyl. All aroclor results were "R" qualified in sample C074201-05 (D46T2) due to decachlorobiphenyl recoveries of less than 10%. The SOW does not require



any corrective action so long as one aroclor surrogate recovery is acceptable.

The native sample (unspiked C074201-15/D46T1) pesticide chromatogram did not resemble those for the MS or MSD. For example, the beta-BHC which was not spiked was reported as "0.050 ug/l U" in the native sample but as 7.3 and 6.8 ug/l in the MS and MSD respectively. The chromatograms for the aroclor fraction of the same sample (both native and MS/MSD) appeared to be more consistent with a high BHC result. However, a definitive conclusion can not be made because the laboratory used different columns than those used for pesticides. Upon discussions with the site's Project Manager and laboratory personnel it was determined that these water samples had unusually large amounts of particulates present and it was plausible that sample non-homogeneity could be the source of these differences. However, the reviewer could not rule out the possibility of samples being crossed in the field or at the laboratory. Effects due to possible sample non-homogeneity were not apparent in the volatile or semivolatile analyses. Therefore, all groundwater pesticide results were "J" qualified.

The volatile analyte 1,4-dioxane responded poorly (RRF < 0.0050) in an ending calibration check standard. All associated sample results were "R" qualified.

Two volatile and six semivolatile extractable compounds exhibited erratic continuing calibration performance necessitating that all associated results be "J" qualified.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-TW-05	C074201-02	46W2	46W2	Groundwater	10/9/07 16:38	10/12/07 14:42
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-01	C074201-06	46T8	46T8	Groundwater	10/11/07 12:40	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-03	C074201-09	46W0	46W0	Groundwater	10/10/07 12:40	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-TW-07	C074201-11	46W3	46W3	Groundwater	10/10/07 12:35	10/12/07 14:42
RP-RB-01	C074201-13	46S8	46S8	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42

0

12/21/07 10:42



DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP12.	Difference between GC columns above method warning limit
CLP13	Difference between GC columns above method action limit
H-1	Recommended holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

- MDL Method Detection Limit The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
- TIC Tentatively Identified Compound An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-05</u>

Station ID:

Lab ID: <u>C074201-02</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W2 BONNER D No: 46W2 SHEALY

Date Collected: 10/9/07 16:38

GAS		P.	1.8 96	ante l'Argent		1, ⁷⁵ 1, X .			
Number .	Analyte	A State	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)		0.10	U, R, QS-4.	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)		0.10	U, R, OS-4	ug/L	-0.10	10/16/07	10/22/07	CLP SOM01.2 P
50-29-3	<4,4'-DDT (p,p'-DDT)		0.10	U.R. OS-4	ug/L		10/16/07	10/22/07	CLP SOM01 2 P
309-00-2	Aldrin		0.025	NL OS-4	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
				CLP12	U U				
319-84-6	alpha-BHC		1.7	J, CLP01, Q	S-4 ug/L	P. 5.0	S10/16/07	10/26/07	CLP SOM01.2 P
5103-71 - 9	alpha-Chlordane		0.050	U, R, QS-4	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
319-85-7-	beta-BHC	1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 -	₩ 9.4	J, QS-4, CL	P01 ^{state} ug/L		10/16/07	10/26/07	CLP SOM01.2 P
319-86-8	delta-BHC	**************************************	0.78	U, R, QS-4,	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
				CLP13					
60-57-1	vaDieldring, var		0,019	NJ;QS_4,;	-init initial	-16 <u>20</u> 10	10/16/07	10/22/07	CLP SOM01.2 P SE
050.00.9	Endoculton L (alpha)		0.050	CLP12, CL	201	0.050	10/16/07	10/22/07	
939-98-0	Endosunan i (arpha)		0.030	U, K, QS-4	ug/L	0.050	10/10/07	10/22/07	CURSON01.2 P
33213-02-9	Endosultan II (beta)			U, K, QS-4	ug/L	<u></u>	10/16/07	10/22/07	CLP SOMOL2 P
1031-07-8	Endosultan Sultate	·····	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOMUL2 P
72-20-8	Endrin	<u> </u>	• 3 0.10	U, R, QS-4	ug/L	3. 2.0.10	10/16/07	10/22/07	CEP SOMULZ P
7421-93-4	Endrin aldehyde	· · · · · · · · · · · · · · · · · · ·	0.10	U, R, QS-4	ug/L	0.10	10/16/07	10/22/07	CLP SOM01.2 P
53494-70-5	Endrin ketone		0.10	U, R, QS-4	ug/L	.0.10	10/16/07	10/22/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	_	3.1	J, QS-4, CL	P01 ug/L	5.0	10/16/07	10/26/07	CLP SOM01.2 P
5566-34-7	2. gamma-Chlordane	1	0.050	U, R, QS-4	ug/L	0.050	10/16/07	10/22/07	GLP SOM01.2 P
76-44-8	Heptachlor		0.068	U, R, QS-4,	ug/L	0.050	10/16/07	10/22/07	CLP SOM01.2 P
-				CLP13					
1024-57-3	Heptachlor epoxide		0.050	∪, R, QS-4	w. wg/L	0:050	3 10/16/07	10/22/07	CLP SOM01 Z P
72-43-5	Methoxychlor	·	0.50	U, R, QS-4	ug/L	0.50	10/16/07	10/22/07	CLP SOM01.2 P
8001-35-2	Toxaphene		ి ్లో 5.0	U. R. QS-4	ug/L	* 5.0	10/16/07	10/22/07	CLP SOM01.2 P



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co RP-0MW-01

Sample ID: <u>RP-MW-01</u>

Station ID:

Lab ID: <u>C074201-03</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY

	Date Coll	ected:	10/9/07	15:01	
£	Contrata -	Sec. Sec.	12. 20.22	0 : 150°.	1999 N

CASE	the set of	en er sæ	" "Marina	Sec. And Sec.	1. Z. 19	. F L 9152°	ka sing sing San San San San San San San San San San			1453 V. 1454 1454 V. 1454 1454 V. 1454 V. 145
Number	Analyte		Results Qua	lifiers	Units States	MRL	Prepared	Analyzed	Method 2	「「「「」」 「「」」
72-54-8	4.4'-DDD (p.p'-DDD)		0.10 U.J.	OS-3	y ug/L h	. 20.10	10/16/07	410/22/07	CLP SOM0	2 P
72-55-9	4,4'-DDE (p,p'-DDE)		0.10 U, J,	QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM0	1.2 P
50-29-3	"4,4'-DDT (p,p-DDT)	7 7	0.10 U,J,	QS-3	ug/L	0.10	10/16/07	J-10/22/07	CLP SOM0	1.2 P
309-00-2	Aldrin		0.050 U, J,	QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P
319-84-6	alpha-BHC		0.050 U, J,	QS-3.	ng ug/L A	0.050.	10/16/07	10/22/07	CLP SOM0	1.2 P. 5, 5
5103-71-9	alpha-Chlordane	98800000000000000000000000000000000000	0.050 U, J,	QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P
319-85-7	beta-BHC		0.050 U,J,	QS-3	uğ/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P_
319-86-8	delta-BHC	h ine filmele e i ne energiane e con al an	0.050 U, J,	QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P
60-57-1	Dieldrin		0.10 U, J,	QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM0	1.2 P
959-98-8	Endosulfan I (alpha)		0.050 U, J,	QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P
33213-65-9	Endosulfan II (beta) - 4	336 B V	0.10 U;J,	QS:3	sa se ug/L'han in	÷	10/16/07	10/22/07	CLP SOM0	1.2 P.a.
1031-07-8	Endosulfan Sulfate		0.10 U, J,	QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM0	1.2 P
72-20-8	Endrin .	AR S	. 0.10 U, J,	QS-3	ug/L	40.10	10/16/07	10/22/07	CLP SOM0	1.2.P
7421-93-4	Endrin aldehyde		0.10 U, J,	QS-3	ug/L	0.10	10/16/07	10/22/07	CLP SOM0	1.2 P
53494-70-5	Endrin ketone		- 0.10 U, J,	QS-3	tig/L −	-0.10zs	10/16/07	10/22/07	CLP.SOM0	1.2 P
58-89-9	gamma-BHC (Lindane)		0.050 U, J,	QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P
5566-34-7	gamma-Chlordane		0:050 U, J,	QS-3	ug/E	0.050#	10/16/07	10/22/07	CLP SOM0	1.2 P.
76-44-8	Heptachlor		0.050 U, J,	QS-3	ug/L	0.050	10/16/07	10/22/07	CLP SOM0	1.2 P
1024-57-3	Heptachlor epoxide		0.034 NJ.,0	CLP01,	ag/L s	0.050	10/16/07	-10/22/07	CLP SOM0	1.2 P (1.41)
72 42 5	Methovychlor		O SO LL L	12, QS-3 😤		0.50	10/16/07	10/22/07	CLP SOM0	1 2 P
8001-35 2	Toverbare		, , U. UC.U	(3-3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ug/L	0.00	10/10/07	10/22/07	CLP SOMO	12P
0001-33-2 4	TOVADUCIE		J. U. U. J.	142-23 Calification		1	10/10/07	10/11/07		



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Go RP - OMW - O2

Sample ID: <u>RP-MW-02</u>

Station ID:

Date Collected: 10/9/07 15:01

Lab ID: <u>C074201-04</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W7 BONNER D No: 46W7 SHEALY

CAS Number,	Analyte	Ar Alexandre	Results Qualifier	t s ss s≤ ₩Units s	🖞 MRL-	Prepared	Analyzed	Method	1977
								CIRCOLOU	
72-55-9	4,4'-DDE (p,p'-DDE)		0.10 U.J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01	2 P
50-29-3	4.4-DDT (p,p-DDT)		0.10 ¹ U, J 🐮		o:10%	10/16/07	0.10/22/07×	CLP SOM01	2 P.
309-00-2	Aldrin		0.050 U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
319-84-6	e alpha-BHC		0.050 U, J	j ug/L s	0.050	10/16/07	10/22/07.5	CLP SOM01	2P >>
5103-71-9	alpha-Chlordane		0.050 U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
319-85-7	beta-BHC	- t		ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
319-86-8	delta-BHC		0.050 U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
60-57-1	Dieldrin		0.10 U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOM01	.2 P
959-98-8	Endosulfan I (alpha)		0.050 U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
33213-65-9	Endosulfan II (beta)		0.10 U, J. 5	ite ug/L	-sn 0.10	10/16/07	10/22/07	CLPSOMO	2 P
1031-07-8	Endosulian Sullate	and the second second	0.10 U, J	ug/L	0.10	10/16/07	10/22/07	CLP SOMU	
7421-93-4	Endrin aldehyde		0.10 U J	ug/L	0.10	10/16/07	10/22/07	CLP SOM0	2 P
53494-70-5	Endrin ketone			ug/E	0.10	10/16/07	10/22/07	CLP SOM01	2 P
58-89-9	gamma-BHC (Lindane)		0.050 U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
5566-34-7-	gamma-Chlordane		0.050 U, J, 👾		.∞∗.0.050	10/16/07	10/22/07	CLPSOMO	2 P
76-44-8	Heptachlor	illifi faiste en la constanti d'a constanti anti	0.050 U, J	ug/L	0.050	10/16/07	10/22/07	CLP SOM01	.2 P
1024-57-3	Heptachlor epoxide		0.044 NJ, CLP)1, 🛬 🗤 ug/L 🖓	0.050	10/16/07	10/22/07	CLP SOM01	2 P
di di	and and an an		CLP124	The second second		<u> </u>			
72-43-5	Methoxychior		0.50 U, J	ug/L	0.50	10/16/07	10/22/07	CLP SOM01	
0001-32-23	i oxapitene	2012		ug/L	3.U.S.	10/16/07	10/22/07-3	COLOMO	.4.1



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 **MD No: 46T2 BONNER** D No: 46T2 SHEALY

Sample ID: <u>RP-DS-01</u> Station ID:

Lab ID: <u>C074201-05</u>

Matrix: Groundwater

te Collected:	10/11/07	13:15
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Date Collec	:ted: 10/11/07 13:15								
CAS	Analyte	Result	s Qualifiers *	Unics	MRL	Prepared .	Analyzed	Method.	
72 -54-8 72-55-9	4,4 -DDD (p,p-DDD)	((\$,	I J, QS-4 +	4 Jug/L	€ \$2.0 0.10	10/16/07	10/26/07 10/23/07	CLP SOM01 2 P	1.1 2.1
50-29-3 309-00-2	4.4-DDT (p.p±DDT)	ана на на 1 4 . 3.0	4 J; QS-4	w∺ug/L ug/L	2.0 J 1.0	10/16/07 10/16/07	\$ 10/26/07 \$ 10/26/07	CLP SOM01.2 P	<u>i</u>
319-84-6 5103-71-9	alpha-BHC alpha-Chlordane	0.30	J J QS-4 J U, R, QS-4, CLP13	ug/L ••••••••••••••••••••••••••••••••••••	0.050	10/16/07	10/26/07 10/23/07	CLP SOM01.2 P	il di se
319-85-7 319-86-8	beta-BHC delta-BHC	2.0 2.0) J;QS-4	ug/L	1.0	10/16/07 10/16/07	10/26/07 10/26/07	CLP SOM01.2 P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
959-98-8	Endosulfan I (alpha)	0.20	⁵ U, R, QS-4, CLP13	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P	<u>198</u> 198 198 198
33213-65-9	Endosulfan II (beta) Endosulfan Sulfate	0.5	5 U, R, QS-4, CLP13 5 U, R, QS-4,	ug/L · · · · ·	0:10 9 0.10	10/16/07 10/16/07	10/23/07 10/23/07	CLP SOM01.2 P CLP SOM01.2 P	(大) (水) (水)
72-20-8 7421-93-4	Endrin Endrin aldehyde	5. 2.	CLP13 5-J, QS-4	ug/L ug/L	<u>, 2.0</u> 0.10	10/16/07 10/16/07	10/26/07 10/23/07	CLP SOM01.2 P	
53494-70-5 58-89-9	Endrin ketone	4	CLP13 7-NJ, QS ² 4,	ug/L	0.10	10/16/07 * 10/16/07 *	10/23/07	CLP SOM01 2 P	
5566-34-7	gamma-Chlordane Start (1) Start Heptachlor	0.05	3 U R. QS-4, 2 2 CLP13 [*] 0 U, R, QS-4	ug/L	0.050** 0.50	10/16/07 10/16/07	10/23/07. 10/23/07	CLP SOM012 P D CLP SOM01.2 P	
1024-57-3	Heptachlor epoxide	03 e	3 U.R. QS-4 CLP13 5 NJ, QS-4,	ug/L ** ug/L	\$ 0.050 0.50	10/16/07	10/23/07 10/23/07	CLP SOM01.2 P CLP SOM01.2 P	
8001-35-2 _K	Toxaphene .	S & J & + 5.	CLP12 0.U, R, QS-4	≁ ug/L	5.0	10/16/07	10/23/07	CLP SOM01 2 P	5-14 # 14



Organochlorine Pesticides

Lab ID: <u>C074201-06</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-01</u>

Station ID:

Date Collected: 10/11/07 12:40

Contract Lab Case: 36903 **MD No: 46T8 BONNER D No: 46T8 SHEALY**

CAS Number	Analyte		esults Oualifier	a ni	Units	MRL	fer G. F	Analyzed	C Anti-	1. an
A Stranger	<u>a a shaat a a fi fi</u>	He he he	Ale de la		and the second		1999 N 1999 N	<u>.</u>		\$ -\$\$
72-54-8	4:4'-DDD (p.p'-DDD) 🗧 👯		0.10 U, J, H-1	, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2	P Setter
72-55-9	4,4'-DDE (p,p'-DDE)		0.10 U, J, H-1	l, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2	P
50-29-3	4'4'-DDT (p,p'-DDT)		0.10 U, J, H-1	, QS-3	yug/L	0.10	10/25/07	10/30/07	CLP SOM01 2	P
309-00-2	Aldrin		0.050 U, J, H-1	l, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	P
319-84-6	alpha-BHC		0.050 U, J, H-1	, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	P a u
5103-71-9	alpha-Chlordane		0.050 U, J, H-1	, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	P
319-85-7	beta-BHC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.050 U, R, H-	1.00	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	P
		. .	QS-3**							
319-86-8	delta-BHC		0.050 U, J, H-1	I, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	P
60-57-1	A Dieldrin 👘 🚱 🦄	** * 14-14 ¹ ** .	0.011 [°] J, ČĽPO	I,ÎH-Î,	ug/L ^{ra}	0.10	10/25/07	10/30/07	CLP SOM01.2	P. 🧐
id 2 1			**** <u>QS-</u> 3 <i>#</i> -,		5 3 1 1 1				1. (. 9 1.)	
959-98-8	Endosulfan I (alpha)		0.050 U, J, H-I	I, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	Р
33213-65-9	Endosulfan II (beta)	- 4 i +	0.10 U, J, H-1	15QS=3	ug/L ⊮	10.10 x	10/25/07 #	10/30/07	CLP SOM01.2	P
1031-07-8	Endosulfan Sulfate		0.10 U, J, H-1	I, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2	Р
72-20-8	Endrin 🙀 👘		*0.10 U; J; H-1	I, QS-3	≍ug/L ∷t	<i>e</i> , a 0.10	10/25/07	10/30/07	CLP SOM01.2	P /- X
7421-93-4	Endrin aldehyde		0.10 U, J, H-1	I, QS-3	ug/L	0.10	10/25/07	10/30/07	CLP SOM01.2	P
53494-70-55	Endrin ketone det a	****	40.10 U, J, H-1	l, QS-3	ug/L 🤹	···· 0.10 ··	10/25/07	10/30/07	CLP SOM01.2	P
58-89-9	gamma-BHC (Lindane)		0.050 U, J, H-1	I, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	Р
5566-34-7	😋 gamma-Chlordane 🚁 👔 🥳	1. S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0.050 U.J. H-1	I, QS-3	ug/L	0.050	410/25/07	10/30/07	CLP SOM01.2	P
76-44-8	Heptachlor		0.050 U, J, H-1	I, QS-3	ug/L	0.050	10/25/07	10/30/07	CLP SOM01.2	P
1024-57-3	🖂 Heptachlor epoxide 🌮 🖇	<u>i</u> 10 % 6 4 4	0.050 U, J, H-1	I, QS=3	∑ug/L →	0:050 , €	10/25/07	10/30/07/	CLP SOM01.2	PA JE
72-43-5	Methoxychlor	· · · · · · · · · · · · · · · · · · ·	0.50 U, J, H-	I, QS-3	ug/L	0.50	10/25/07	10/30/07	CLP SOM01.2	P
8001-35-2	Toxaphene 🙀 🤹	i u u a li	-5.0 U, J, H-	I, QS-3	🔍 ¥ug/L 😽	₩ \$5.0₽	10/25/07	10/30/07*	CLP SOM01.2	P



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u>

Station ID:

Lab ID: <u>C074201-07</u>

Matrix: Groundwater

Contract Lab Case: 36903

MD No: 46T9 BONNER

D No: 46T9 SHEALY

Date Collected: 10/11/07 11:07

CAS	Analyte	Results	L Qualifiers	7 4 3 9 Units	MRL	Prepared	Analyzed	Method	tite State
N N N N N N		<u>288. do A. C. do A. 89</u> 7		l f is decline		Barris A.	A: YSAT AIR	11. 1928 . 112 ⁻¹ 10.	
72-54-8	4:4'-DDD (p,p'-DDD) *******	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U, J	÷ 1 ug/L	0.10	10/16/07	10/23/07	CLP'SOM01.2	P. P.
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2	? P
50-29-3	4.4'-DDT (p.p'-DDT)	0.01 5	J, CLP.01 🕵 🍕	ig ug∕L	0.10	\$10/ <u>[</u> 6/07	10/23/07	CLP SOM01 2	P
309-00-2	Aldrin	0.050	U, J	ug/L	- 0.050	10/16/07	10/23/07	CLP SOM01.2	P :
319-84-6	alpha-BHC	A 1 2 4 1 10.050	ା ଆ, ସ୍	uğ/L 🔭 🛉 .	0.050	10/16/07	10/23/07	CLP.SOM01 2	P
5103-71-9	alpha-Chlordane	0.050) U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2	2 P
319-85-7 4-+**	beta-BHC	्रे 🔮 🔻 🤾 (0.050	U,J	🕺 🖞 uế/L	0.050	10/16/07	10/23/07	CLP SOM01.2	P
319-86-8	delta-BHC	0.050) U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2	? P
60-57-1	Dieldrin	0.10	U, Ja: 🎄 🚯	법 ug/L _{: 국}	0.10,	10/16/07	10/23/071	CLP SOM01.2	P
959-98-8	Endosulfan I (alpha)	0.050) U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2	2 P
33213-65-9	Endosulfan II (beta)	0.10 🕅 👘 👘	U, J 🦄 👘	ug/L 🔛 🙀	0.10	10/16/07	10/23/07	CLP SOM01	P
1031-07-8	Endosulfan Sulfate	0.10) U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2	P P
72-20-8	Endrin	0.10) (),] <u>}</u>	。 월	s 0 <u>10</u>	10/16/07	10/23/07	CEP SOM01.2	P
7421-93-4	Endrin aldehyde	0.10) U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2	? P
53494-70-5	Endrin ketone	A 14 14 14 14 10 10	U, J _A , A 44		0.10	10/16/07	10/23/07/	CLP SOM012	Р.
58-89-9	gamma-BHC (Lindane)	0.010	NJ, CLP01,	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2	? P
6676 24 2		· · · · · · · · · · · · · · · · · · ·	CLP12	A	20 050°	10/12/03	10	CLOSOMAL	0.35.3
5500-54-7 <u>21</u> . 5	gamma-emorgane	(m) (0.054, m) (0.050	0,1 2 2	ug/L	140.030	10/16/07	10/23/07	CLP/SOMUL2	T. F.
76-44-8	Heptachlor	0.050) U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2	2 P
1024-57-3 🦻 👘	Heptachlor epoxide	0:050	U, J 🕺 🖑 🥲	iig/L	0.050	10/16/07	10/23/07	CLP SOM01.2	P 🤤 🕺
72-43-5	Methoxychlor	0.50) U, J	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2	2 P
8001-35-2	Toxaphene	5.0) U, J	. in ug/L ip with	5.0	10/16/07	10/23/07	CLP SOM01.2	P .



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

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Sample ID: <u>RP-TW-09</u>

Station ID:

CAS

Lab ID: <u>C074201-08</u> Matrix: Groundwater

48. **K**

Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

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Date Collected: 10/11/07 7:50

Number F	Analyte	Results, Qualifiers	Units	MRL	Prepared	Analyzed	Method is such as
72-54-8 🙀 🦗	*4:4'-DDD (p,p'-DDD)	0.10.U,J 4 4	ug/L	* <u> </u>	10/16/07	10/23/07	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10 U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3 🐥 🌴	4,4'-DDT (p,p'-DDT)	0.10/U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
309-00-2	Aldrin	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6 😤 🦉	alpha-BHC	0:022¢J, GLP01	۳ úg/L ۴	°0.050	10/16/07	10/23/07	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7/2	🔹 beta-BHC 🕡 🍁 🙀 🖓 🖓 🖓		∛ ug/L*	10.050	10/16/07	10/23/07	CLP SOM01.2.P
319-86-8	delta-BHC	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin 🧞 🍻 🦉 🤐	1. 1. 0.10 ¹ U ¹ J ¹ V ² 7. 1	tug/L*r	*** 0.10	10/16/07	10/23/07	CUP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	a - a - :0:10 U; J ≥ :****	ug/L 🐼	+0.10	10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10 U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin 🦕 🖌 🗿 👔		🐆 ug/L 😽	s ≽0.10	10/16/07	10/23/07	CLP SOM01-2 P/c
7421-93-4	Endrin aldehyde	0.10 U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketône	🕶 👘 0.024 J, CLP01 🗟 🖉	ug/L 🚽	2 0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.051 J, CLP01	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050.U, J.	ug/L 🤅	0.050	10/16/07	10/23/07	CLP SOM01.2 P.#
76-44-8	Heptachlor	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	. sa 🛓	ug/L	0.050	10/16/07:	10/23/07	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50 U, J	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	φ 🔮 🔔 5.0 ₂ U, <u>1</u> τ _μ τ ξ	sg,_ug/L	5.0	10/16/07	10/23/07;	CLP SOM01.2 P



Organochlorine Pesticides

Lab ID: <u>C074201-09</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-03</u>

Station 1D:

Date Collected: 10/10/07 12:40

Contract Lab Case: 36903 MD No: 46W0 BONNER D No: 46W0 SHEALY

CAS Number	Analyte.		- Results	Qualifiers	Units	÷, ≠ 4 ,	Prepared	Analyzed	Method	
72-54-8	"4,4'-DDD (p,p'-DDD) 4,4'-DDE (p,p'-DDE)		* 20.10 0.10	U, J, QS-3 U, J, QS-3	ug/L ug/L	0.10	0	10/23/07 10/23/07	CLP SOM	01.2 P 01.2 P
50-29-3 309-00-2	4,4'-DDT (p,p'-DDT)		0.10 0.050	Ų, J, QS-3 U, J, QS-3	ug/L ug/L	0.050	0 10/16/07 0 10/16/07	10/23/07 10/23/07	CLP SOM CLP SOM	01.2.P. ; j. 01.2 P
319-84-6 ; 5103-71-9	alpha-BHC alpha-Chlordane	<u></u>	0.050	U; J, QS-3 U, J, QS-3	🙀 🦛 🚺 ug/L ug/L	0.050 0.050	0 , 10/16/07 0 10/16/07	10/23/07 10/23/07	CLP SOM	01.2 ₁ P (2015) 01.2 P
319-85-7 319-86-8	beta-BHC side ta-BHC delta-BHC	<u>.</u>	• 0.050 0.050	U, J, QS-3 U, J, QS-3	من يور ug/L	0.05 0.05	0.5, 10/16/07 0 10/16/07	910/23/07 10/23/07	CLP SOM	01.2 P
60-57-1 959-98-8	Dieldrin Endosulfan I (alpha)		P * 0.10 0.050	U, J, QS-3 U, J, QS-3	as, uğ/L ug/L	0.05	0 10/16/07 0 10/16/07 0 10/16/07	10/23/07	CLP SOM	01.2 P 01.2 P
1031-07-8	Endosulfan Sulfate	1 11.111	0.10	U, J, QS-3	ug/L ug/L	0.1	0 10/16/07 0 10/16/07	10/23/07	CLP SOM	01.2 P
7421-93-4 53494-70-5	Endrin aldehyde Endrin ketone		0.10	U, J, QS-3	ug/L	0.10	0 10/16/07 D 10/16/07	10/23/07	CLP SOM	01.2 P
58-89-9 5566-34-7	gamma-BHC (Lindane) gamma-Chlordane		0.050 	U, J, QS-3 J, QS-3, CL	ug/L PO1	0.05	0 10/16/07 0 10/16/07	10/23/07	CLP SOM	01.2 P
76-44-8	Heptachlor Heptachlor epoxide		0.050	U, J, QS-3 U, J <mark>, QS-</mark> 3	ug/L	0.05	0 10/16/07 0. <u>q. 10/16/07</u>	10/23/07	CLP SOM	01.2 P 01.2 P
72-43-5 8001-35-2,	Methoxychlor Toxaphene		0.50	U, J, QS-3 U; J, QS-3	ug/L	0.5 • • • • 5.	0 10/16/07 0 5 10/16/07	10/23/07	CLP SOM	01.2 P 01.2 P

12/21/07 10:42



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station ID:

Lab ID: <u>C074201-10</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W1 BONNER

D No: 46W1 SHEALY

Date Collected: 10/10/07 15:32

CAS		**************************************	1		w W at 1	P. of the second	1 1 . 4. 7.	N (1) B
Number	Analyte	Results Qualifiers	Units	, MRL	Prepared to	Analyzed	Method	亨利 普·彼
72-54-8	4,4'-DDD (p.p'-DDD)	0.10.U, J *****	τ τ ug/Lyn →	0.10	2 10/16/07	10/23/07	CUP SOMOL	2 P 🔻 5
72-55-9	4,4'-DDE (p,p'-DDE)	0.10 U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01	2 P
50-29-3 🛶 🗄 🕈	4,4-DDT (p,p-DDT) 👘 👘	0.10/U,J	,_ug/L	0.10	10/16/07	10/23/07	CLP SOM01	2 P 🛓 🧌
309-00-2	Aldrin	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01	2 P
319-84-6	alpha-BHC	0.050 U,J * ≩ = 3		. 0.050	10/16/07# (10/23/07	CLP SOM01	2 P 💸 🚽
5103-71-9	alpha-Chlordane	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01	2 P
319-85-7 🎽 🐴	beta-BHC	S= ₩ ⁻¹⁴⁷³ 0.050 U;J	i ug/L	0.050	10/16/07	10/23/07	CLP SOM01	2 P
319-86-8	delta-BHC	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01	.2 P
60-57-1	Dieldrin	0.10 U, J	ar ⊊ug/L _{st} :	0.10	10/16/07 \t	10/23/07	CLP SOM01	2 P
959-98-8	Endosulfan I (alpha)	0.050 U, J	ug/L	0.050	10/16/07	10/23/07	CLP SOM01	.2 P
33213-65-9. *#	Endosulfan II (beta)	0.10 U, J	→ ug/L	0.10	10/16/07	10/23/07	CLP SOM01	2 P 16 4 1
1031-07-8	Endosultan Sulfate	0.10 U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOM01	2 P
72-20-8	Endrin Fadaia aldala da	U.IU ⊎,J × 4	a sug/L m	0.10	£ 10/16/07 ;#	.10/23/07	CLP SOMUL	2.P. 2. 3
/421-93-4		0.10 U, J	ug/L	0.10	10/16/07	10/23/07	CLP SOMUL	-2 P
55494-70-5	commo BUC (Lindone)	0.10 U,J	ug/L s,	0.10	10/16/07	10/23/07	CLP SOMOL	2 F 2 P
5555 24 7	gamma-Chlordane		ug/L	0.050	10/10/07	10/23/07	CLP SOM01	2 P. 4. 1
76-44-8	Hentachlor	0.050 U.1	ug/l	0.050	10/16/07	10/23/07	CLP SOM01	2 P
1024-57-31	Hentachlor epoxide	0.050 0, 1	ug/L *	0.050	10/16/07	10/23/07	CLP SOM01	2'P
72-43-5	Methoxychlor	0.50 U. J	ug/L	0.50	10/16/07	10/23/07	CLP SOM01	<u>at at 1</u> 2 P
8001-35-2	Toxaphene	5.0 U, J	ug/L jy	\$ \$5.0	10/16/07;	10/23/07	CLP SOMOI	2 P 5



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-07</u>

Lab ID: <u>C074201-11</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W3 BONNER D No: 46W3 SHEALY

Station ID:

Date Collected: 10/10/07 12:35

CAS Number	Analyte		Results Qualifiers	Units	, MRL	P Prepared	Analyzed	Anthod	
72-54-8	4.4'-DDD (p.p-DDD)		0.43.UJ. OS-3. CLP13	rüg/L n ≥ z	, : _{1€} 0.10 -	10/16/07	10/23/07	CLP SOM0	2 P 🦕
72-55-9	4,4'-DDE (p.p'-DDE)		0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM0	1.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	AR BELL	0.78 J, QS-3 🚓	મું મ _{ું} ug/L _ં ક્	+ 0.103	10/16/07 🤉	10/23/07	CLP SOMO	1.2 P
309-00-2	Aldrin		0.18 J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM0	1.2 P
319-84-6 🔬 🦛	alpha-BHC 🚓 🖓 👘 🕬	<i>ે⊭</i> ™ 13 ∰ 15 €	9.5 J, QS-3	€ ≱ iug/L	1.3 -	10/16/07	10/27/07	CLP SOM0	1.2 P
5103-71-9	alpha-Chlordane		0.072 U, J, QS-3,	ug/L	0.050	10/16/07	10/23/07	CLP SOM0	1.2 P
			CLP13		122		و هور مورد		
319-85-7	beta-BHC		1.2 J, QS-3, CL	PO1 ug/L	: 1,3 	10/16/07	10/27/07	CLP SOM0	1.2.P. 😤
319-86-8	delta-BHC		5.3 J, QS-3	ug/L	1.3	10/16/07	10/27/07	CLP SOM0	1.2 P
60-57-1	Dieldrin, R. K. K. K.	👻 A Same marry	2.1, J, QS-3	.u., si ≈ ug/L*	2.5 	10/16/07	10/27/07	QCLP SOM0	1.2 P. 🐨
959-98-8	Endosulfan I (alpha)		0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM0	1.2 P
33213-65-9 🛼	Endosulfan II (beta) 🗧 🧍	法 计图型计	- 0.10 U, J, QS-3	in in ug∕L in in	0.10	10/16/07	10/23/07	CLP SOM0	1.2 P
1031-07-8	Endosulfan Sulfate		0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM0	1.2 P
72-20-8	Endrin		1.4 J, QS-3	ug/L	a 30.10	10/16/07	10/23/07	CLP SOMO	l.2 P
7421-93-4	Endrin aldehyde	-	0.26 J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM0	I.2 P
53494-70-5	Endrin ketone	The second second	🔍 1.3 J, QS-3 🔅	vg/L·	0.10	10/16/07	10/23/07	TCLP SOMO	1.2 Pa 🕅
58-89-9	gamma-BHC (Lindane)		12 J, QS-3	ug/L	1.3	10/16/07	10/27/07	CLP SOM0	1.2 P
5566-34-7	gamma-Chlordane 🐄 🐴	5 * 7 ² * *	0.024 NJ, QS-3, *	2 v ug/L 212	3 0.050	10/16/07	10/23/07	CLP SOM0	1.2 P
76-44-8	Heptachlor		0.050 U, J, OS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM0	1.2 P
1024-57-3	Heptachlor epoxide		0.10 U, J, QS-3,	ug/L, d	€ 0.050	10/16/07	10/23/07	CLP SOM0	.2 P
72-43-5	Methoxychlor		0.50 U, J, OS-3	ug/L	0.50	10/16/07	10/23/07	CLP SOM0	1.2 P
8001-35-2	Toxaphene		5'0 U, J, QS-3	1 16 1/ ug/L	<u>s</u> s 5.0	<u>,</u> 10/16/07	10/23/07	CLP SOM0	1 2 P

12/21/07 10:42



Organochlorine Pesticides

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Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-RB-01</u>

Lab ID: C074201-13

Station ID:

Matrix: Equipment Rinse Blank

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

: 89Z |

Date Collected: 10/8/07 16:30

W 14 14 14	CCCCCC	· · · · · · · · · · · · · · · · · · ·					294 (S. 1864 - 1864 -	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. SX344	
ĈAS			an a				8, 86 - 6	(), ` +	te 🕈 K	Martin Rock
Number	Analyte		Results' Qualifiers	i	Units	🖌 🖌 MI	L Prepar	ed Analyzed	- Method _{ye}	
			Contraction of the Contraction of Co	• ())) ())) ()) ()) ()) ()) ()) ()) ())		***:***** * · · ·			<u></u>	
72-54-8	7 4,4-DDD (p,p-DDD)	441.	0.10 U., 👔	6 in 14	ug/L	⊾ ↓ 0.	0 10/15/	07	CLP SOM	01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	En	0.10 U	Sector & and all them. She find the second	ug/L	0.	0 10/15/	07 10/19/07	CLP SOM	01.2 P
50-29-3	4:4'-DDT (p,p'-DDT)		0.10 U.w. 4		ug/Eu +	ž 10.	0	07 10/19/07	CLP SOM	ÕI.2 P
309-00-2	Aldrin	deite sinde andi-antis antis de la company	0.050 U	CARGA BER IAL BROY LINE	ug/L	0.0	50 10/15/	07 10/19/07	CLP SOM	01.2 P
319-84-6	🛛 alpha-BHC 🦗 🐔 🤌 🌶		0.050 U* '*	- 1	ug/L	0:0	50 10/15/	07 10/19/07	CLP SOM	01.2 P
5103-71-9	alpha-Chlordane		0.050 U	And Maria Adding 1 (1998)	ug/L	0.0	50 10/15/	07 10/19/07	CLP SOM	.01.2 P
319-85-7	beta-BHC		0.050 U	5 4 9	ug/L ^a	0.0	50 🔬 10/.15/	0710/19/07,	CLP SOM	01.2 P 👔 🦓
319-86-8	delta-BHC	<u></u>	0.050 U	Alia Ministeria di	ug/L	0.0	50 10/15/	07 10/19/07	CLP SOM	.01. 2 P
60-57-1 💐 👘	Dieldrin		010U	W. A	ug/L	0.	10 10/15/	07 310/19/07/	CLP.SOM	01.2 P 🐐
959-98-8	Endosulfan I (alpha)		0.050 U	<u> </u>	ug/L	0.0	50 10/15/	07 10/19/07	CLP SOM	.01.2 P
33213-65-9 🐐	Endosulfan II, (beta) 👬 🛧		0.10 U		ûg/L	···· ··· 0.	10' 10/15/	07 10/19/07	CLP SOM	01.2 P
1031-07-8	Endosulfan Sulfate	مهريدان سيبيه بمتنه والانتقار والمتناهية	0.10 U		ug/L	0.	l0 10/15/	07 10/19/07	CLP SOM	01.2 P
72-20-8	Endrin 👔 🕴 🦉 🦉 🦉		0.10 U 🖉 🕸 🕈		üg/L	<u>, o</u> .	10/15/	07. 10/19/074	CLP SOM	01.2 P
7421-93-4	Endrin aldehyde	A. 1998	0.10 U	<u>35. (357. 1985. 198</u>	ug/L	0.	10 10/15/	07 10/19/07	CLP SOM	.01.2 P
53494-70-5	Endrin ketone		0.10 U 🕻 😤 🤉		ug/Ly	v v 0.	LO ==== 10/15/	07 10/19/07.	CLP SOM	01:2 P
58-89-9	gamma-BHC (Lindane)	Is., Mar., Anna Malling, Mar.	0.050 U	11. AZ , 141 - AK	ug/L	0.0	50 10/15/	07 10/19/07	CLP SOM	01.2 P
5566-34-7	gamma-Chlordane, 🔬 🕵	1-14.1 * \$ 4 1	₹0.050,U*-	 4	ug/Lan a	* 0.0	50 10/15/	07: 10/19/07	CLP SOM	01.2 P
76-44-8	Heptachlor	ali di kati matali ini kati matali di kati ini dika di kati na sa	0.050 U		ug/L	0.0	50 10/15/	07 10/19/07	CLP SOM	01.2 P
1024-57-3	Heptachlor epoxide	A CONTRACTOR OF A CONTRACTOR	0.050 U 🔭		uĝ/L	<u> 0.0</u>	50 10/15/	07 10/19/07	CLP SOM	01.2 P
72-43-5	Methoxychlor	88	0.50 U	Maria Maria Angero	ug/L	0.:	50 10/15/	07 10/19/07	CLP SOM	01.2 P
8001-35-2	Toxaphene		5.0 U		ug/L	87 N. 45	.010/15/	07. 10/19/07	CLP SOM	01-2 P
22.5 ALC: ALC: 2.5 A	A. CONTRACTORISTICS AND	A State of the sta	(14歳)(25歳の)(366)(368) (56)(3	14 - 1920 AND - 17	a	100 71 795	204	Max2000 - 386 - 7	 100 CTTTL 	200 Hr. 1995 1995



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

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Sample ID: <u>RP-TW-06</u>

Station ID:

1010

Lab ID: C074201-14

Matrix: Groundwater

Contract Lab Case: 36903 **MD No: 46T0 BONNER** D No: 46T0 SHEALY

Date Collected: 10/8/07 16:13 A Contain

INUMDER ***	Analyte	Kestuis: Qualifiers	L Units	MRL	Prepared	Analyzed	Method
72-54-8	e 4.4'-DDD (p,p'-DDD) + 8	🚛 👯 🐨 🛜 .0.10 U, J, QS-3 🧖	T ig/L ig/L i	0.10	10/16/07	10/23/07	CLP SOM01 2 P.
72-55-9	4,4'-DDE (p,p'-DDE)	0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
50-29-3	4.4'_DDT_(p,p'_DDT) 4.	1. 1. 1. QS-3 🖗 🕺 🕹 🕹	i ug/Lan.	30.10	10/16/07-5	10/23/07	CLE SOM012 P.#
309-00-2	Aldrin	0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-84-6	alpha-BHC	🙀 🤞 🔹 0.050 U, J, QS-3 🐲	A melline of	0.050	10/16/07	10/23/07	CLP SOM01-2 Page 1
5103-71-9	alpha-Chlordane	0.0070 J, QS-3, CLP0)1 ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
319-85-7	beta-BHC	0.050,U,J, QS-3	, ug/L ₂,	.₄0.050	10/16/074	(10/23/07)	CLP SOM01.2 Payor
319-86-8	delta-BHC	0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
60-57-1	Dieldrin	0.10.U, J.QS-3	n will ug/L	0.10	10/16/07	10/23/07	CLP SOM01 2 P.
959-98-8	Endosulfan I (alpha)	0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0,10 U, J, QS-3	the ug/L		10/16/07	10/23/07	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
72-20-8	Endrin	0,10,U, J, QS-3 ;;	ug/L	.0.10	10/16/07	10/23/07	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10 U, J, QS-3	ug/L	0.10	10/16/07	10/23/07	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10 U, J, QS-3	ug/L 1	0.10	10/16/07	10/23/07	CLP SOM01.2 P
58-89 - 9	gamma-BHC (Lindane)	0.015 NJ, QS-3,	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
		CLP12, CLP0	1				
5566-34-7	gamma-Chlordane _a , ik	🐅 🔆 🔆 😴 👎 0.0502U,U, QS-32.m.	-% ⊈ ug/L	<u>. 0.050</u>	10/16/07.	510/23/07	CLP SOM01:2 P
76-44-8	Heptachlor	0.050 U, J, QS-3	ug/L	0.050	10/16/07	10/23/07	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide, 🛫 🤶	, , , , , , , , , , , , , , , , , , ,	ik ⊼ug/L≋	0.050	10/16/07	~10/23/07 E	CLP.SOM01-2 P
72-43-5	Methoxychlor	0.50 U, J, QS-3	ug/L	0.50	10/16/07	10/23/07	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0,U,J,QS-3,	,,	¢5.0	10/16/07	10/23/07	CLP SOM012 P



Organochlorine Pesticides

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u>

Lab ID: <u>C074201-15</u> Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Station ID:

Date Collected: 10/8/07 13:00

CAS Number	Analyse	Results Qualifiers	+ Units	MRL Prepared	Analyzed Method
72-54-8	44 DDD (p.p-DDD)	,	€ ŭg/Ľ∽ *?	······································	A10/19/07 CLP SOM012 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10 U, J, QS-3	ug/L	0.10 10/15/07	10/19/07 CLP SOM01.2 P
50-29-3, +/ ···	4.4'-DDT (p.p'-DDT)	• • • • • • • • • • • • • • • • • • •	₩ ug/L	0.10 10/15/07	10/19/07 CLP SOM01.2 P
309-00-2		0.050 U, J, QS-3	ug/L	0.050 10/15/07	10/19/07 CLF SOM01.2 F
319-84-6	alpha-BHC	**************************************	n ug/L a se	10/15/07	(10/19/07.#CCP.SOM01:2.P
5103-71-9	alpha-Chlordane	0.050 U, J, QS-3	ug/L	0.050 10/15/07	7 10/19/07 CLP SOMULZ P
319-85-7	🔹 beta-BHC 🐘 🦉 🚡 👔 🔗	🔬 🦮 🗰 0.050/U ₁ J, QS-3 🐮 🏅	ug/L *	40.050 10/15/07	10/19/07 CLP SOM01/2 P+
319-86-8	delta-BHC	0.050 U, J, QS-3	ug/L	0.050 10/15/07	7 10/19/07 CLP SOM01.2 P
60-57-L 🧠 🗸	S Dieldrin 🤾 🦡 👘 👘	د 👾 👾 (0:10-U, J#QS-3 🖗 🛝	≠ ug/L ģ	\$ 0.10 10/15/07	10/19/07 CLP.SOM01.2 P
959-98 - 8	Endosulfan I (alpha)	0.050 U, J, QS-3	ug/L	0.050 10/15/07	7 10/19/07 CLP SOM01.2 P
33213-65-9	"Endosulfan II (beta)	x 4, (m +0:10, U, J; QS-3 ≩. (ug/L ₩ ¥	· 0:10 - 10/15/07	10/19/07 CLP SOM01/2 P 4 10-1
1031-07-8	Endosulfan Sulfate	0.10 U, J, QS-3	ug/L	0.10 10/15/07	10/19/07 CLP SOM01.2 P
72-20-8	Endrin an a se	0.10 U, J, QS-3 i	🔄 ug/L 🔬 🞼	<u>.0.10</u> 10/15/07	10/19/07 # CLP SOM01 2 P
7421-93-4	Endrin aldehyde	0.10 U, J, QS-3	ug/L	0.10 10/15/07	7 . 10/19/07 CLP SOM01.2 P
53494-70-5	Endrin ketone 🚓 🐙 👔 🙀 🔩	and the 0-10 U, J, QS-3≉ ≪ and	ug/L	0:10 10/15/07	10/19/07 CLP SOM01.2/P. 10/1
58-89-9	gamma-BHC (Lindane)	0.050 U, J, QS-3	ug/L	0.050 10/15/07	7 10/19/07 CLP SOM01.2 P
5566-34-7	amma-Chlordane 🙀 🙀 🤹	5 🙀 0.050 U, J, QS-3 🤘 🐲	י yug/Lt; י	30.050 10/15/07	10/19/07 CLP SOM01.2 P
76-44-8	Heptachlor	0.050 U, J, QS-3	ug/L	0.050 10/15/07	7 10/19/07 CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	u	ug/L 🛊 🚿	80.050 10/15/01	2. 10/19/07 CLP SOM01-2 P 2004
72-43-5	Methoxychlor	0.50 U, J, QS-3	ug/L	0.50 10/15/07	7 10/19/07 CLP SOM01.2 P
8001-35-2	Toxaphene	-5.0.U, J, QS-3.ψ. ∹3⊅	N, ug/L I all	······································	7 10/19/07 CLP SOM01.2 P

12/21/07 10:42



November 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT:	FINAL Analytical Report
	Project: 08-0029, Red Panther Chemical Co
	Superfund Remedial
FROM:	Denise Goddard
	Quality Assurance Section Chemist
THRU:	Marilyn Maycock, Chief
	Quality Assurance Section
TO:	Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:		
Classical/Nutrient Analyses (CNA)			
Cyanide	CLP Inorganics		
Total Metals (TMTL)			
Total Mercury	CLP Inorganics		
Total Metals	CLP Inorganics		
		1	



Report Narrativefor Work Order C074201, Project: 08-0029Data Review and Validation ReportSite Name: Red Panther Chemical, Clarksdale, MSCase No. 36903, Project No. 08-0029, Work Order No. C074201ELEMENT Nos. C074201-01 - C074201-15, C074201-21 - C07401-23Sampling Dates: 10/07 - 09/07Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MSDate Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 18 water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below and in the attached review summary form.

Examination of blank samples revealed apparent low-level contamination with several elements listed in Table 1. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being



potential false positives and, hence, unusable and flagged "R".

cc: Nardina Turner



SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-PB-01	C074201-01	46T3		Preservative Blank	10/9/07 14:50	10/12/07 14:42
RP-TW-05	C074201-02	46W2	46W2	Groundwater	10/9/07 16:38	10/12/07 14:42
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-01	C074201-06	46T8	46T8	Groundwater	10/11/07 12:40	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-03	C074201-09	46W0	46W0	Groundwater	10/10/07 12:40	10/12/07 14:42
RP-TW-04	C074201-10	46W 1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-TW-07	C074201-11	46W3	46W3	Groundwater	10/10/07 12:35	10/12/07 14:42
RP-MB-01	C074201-12	46S7		CLP Metals Blank	10/8/07 17:00	10/12/07 14:42
RP-RB-01	C074201-13	4658	46S8	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42

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11/21/07 14:06



DATA QUALIFIER DEFINITIONS

U .	The analyte was not detected at or above the reporting limit.
B-1	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP03	Baseline instability in calibration or preparation blanks
CLP04	Analyte reported as potential false positive (% RSD > 20%, and result > MDL, but < CRQL)
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
Q-5	Serial dilution precision outside method control limits
QM-1	Matrix Spike Recovery less than method control limits
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

- MDL Method Detection Limit The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
- TIC Tentatively Identified Compound An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



Total Metals

Project: 08-0029, Red Panther Chemical Co

\ Sample ID: <u>RP-PB-01</u>

Lab ID: <u>C074201-01</u>

Contract Lab Case: 36903 MD No: 46T3 BONNER D No:

Station ID:

Matrix: Preservative Blank

Date Colle	ected:	10/9/07	14:50
. A. Hannakan	21. 6	m Ster au	Sale and the Sec.

CAS 5 Ministration	Analytes -	Results Qualifiers	Units	MRL ⁺ Pro	epured	Analyzed	Method
7439-97-6	Mercury	0.20 U 31 31 4	ug/L		/24/07	10/24/07	CLP.ILM05.4 CV 19.
7429-90-5	Aluminum	68 U, J, Q-2, B-1	ug/L	200 10	0/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony 🦛 🚖 🕆 🕅 👘	60 U, J, QM-1	Bug/L *	⁹⁰¹ 760 10	17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10 U, J, QM-1	ug/L	10 10)/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Bariumi a a an an a a a a a a a a a a a a a a	● A200 U: ● 我 先 ◆	ug/L ≦.	#200 ¹⁰⁰ 10	/17/07	10/22/07	CLP/ILM05.4 Pac 343
7440-41-7	Beryllium	5.0 U	ug/L	5.0 10)/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	21 5:0 U at a sin sin si a si a si a si a si a si a	⊊ ug/L	s -5.0% io	17/07	10/22/07	CLP.ILM05.4 P.
7440-70-2	Calcium	20 J, Q-2	ug/L	5000 10)/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	10, U + (****	™ug/L	s ∓10 [™] 10)/17/07	10/22/07	CLP_ILM05.4 P
7440-48-4	Cobalt	50 U	ug/L	50 10)/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	25 U 🦂	² ug/L	25 10)/17/07	10/22/07	CLP/ILM05.4 P
7439-89-6	Iron	100 U	ug/L	100 10)/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10 U El	ug/L	s . 10 io	/17/07	10/22/07	CLP ILM05 4 P
7439-95-4	Magnesium	5.4 J, Q-2	ug/L	5000 10)/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	15 U T 🖓 🕺	ug/L	15 10	x17/07	10/22/07	CLP ILMOS 4 P
7440-02-0	Nickel	40 U	ug/L	40 10	0/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potašsium	5000-U, J Q-5	ug/L	5000 10)/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35 U, J, QM-1	ug/L	35 10)/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	"Silver 2 States and a second se	10 🕖 😁 😴	ug/L	• 10 10)/17/07	10/22/07	CLP ILM05 4 P
7440-23-5	Sodium	230000	ug/L	15000 10)/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium 🕈 👘 🔭 🔭 🔭 🧎	25 U 😰 🕅 🗮	ug/L	3 25 7 10	0/17/07	10/22/07	CLP ILM05.4 P
7440-62-2	Vanadium	50 U, J, Q-5	ug/L	50 10	0/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc mask of the second s	4 4 1 U 1 Q 2 + * * CLP03, Q-5 * *	, vije ∮	'≉ =601_10	0/17/07	10/22/07	CLP ILM05.4 P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46T3 BONNER

D No:

Sample ID: <u>RP-PB-01</u> Station ID: Lab ID: <u>C074201-01</u>

Matrix: Preservative Blank

Date Collected: 10/9/07 14:50

CAS Number Analyte	Results Qualifiers Units	MRL Prepared Analy:	ed Method
57-12-5 = Cyanide	10 Uc statistics ug/L	€, ; ; = 10 + 10/19/07 <u>;</u> 10/19/0	17 CLP ILM05.4 AS 7



Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-05</u>

Station ID:

Lab ID: <u>C074201-02</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W2 BONNER D No: 46W2 SHEALY

Date Collected: 10/9/07 16:38

CAS Number	Analyte		Results Qualifiers	Units #4.	∰	Prepared	Analyzed	Method
7439-97-6	Mercury	an in an in a	0.20 U	ug/L	0.20	10/24/07	10/24/07	CLP.ILM05.4 CV
7429-90-5	Aluminum		20000	ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	" " "	백년	1	60	10/17/07	10/22/07	CLP/ILM05.4 P
7440-38-2	Arsenic		21 J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium		1200	ug/L _{yi} ,	200 ·	10/17/07	~10/22/07	CLP_ILM05.4 P
7440-41-7	Beryllium		15	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	🤉 🖟 Cadmium 🤻	the set surprise	<u>ie //: 13 </u>	A ug/L* t	5.0	10/17/07	10/22/07	CLP ILM05 4 P
7440-70-2	Calcium		590000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium			ug/L	- 10	10/17/07	- 10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt		140	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper 📲	1	5 170 , 6	ug/L	258	10/17/07:-	10/22/07	CLP ILM05 4 P
7439-89-6	Iron		88000	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead the state	· [2.]	120	🚽 🖓 ug/L	10	10/17/07	10/22/07	CLP/ILM05/4 P
7439-95-4	Magnesium	· · ··································	120000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese		9800	ug/L	15	10/17/07	10/22/07	CLP ILM05 4 P
7440-02-0	Nickel		480	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium		14000 J; Q-5	, je iš ug/L.	5000	10/17/07-	10/18/07	CLP ILMOS 4'P
7782-49-2	Selenium	**************************************	35 U, J, QM-	l ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver		10 U	ug/L		10/17/07	10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	and a second	40000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	a. (\$ 5 a.	225,⊌⊛	ig −j, iug/L	25	10/17/07	10/22/07	CLP IEMOS 4 P 20
7440-62-2	Vanadium		190 J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	*Zinć		350 J, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-05</u> Station ID: Lab ID: <u>C074201-02</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W2 BONNER D No: 46W2 SHEALY

Date Collected: 10/9/07 16:38





Total Metals

Lab ID: <u>C074201-03</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co LP - OMW -0 | OH Sample ID: <u>RP-MW-01</u>

Station 1D:

Date Collected: 10/9/07 15:01

Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY

CAS Number	Analyte	Results Qualifiers	s. Units	MRL	Prepared	Anahyzed	Method &
7439-97-6	Mercury	1998 20 June 1990 20 U: 55 Call .	Ϋ́π, ug/L	0.20	10/24/07 (5	10/24/07	CLP ILM05.4 CVG
7429-90-5	Aluminum	6000	ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60 U, J, QM-1	at_ug/L	60	10/17/07	10/22/07	CLP ILM05 4 P
7440-38-2	Arsenic	21 J	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	3940 × +	ug/L	200	10/17/07	-10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.51 J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmiumk, Corros	sa 5.0 U	, ∠_ug/L_ *>	5.0	10/17/07	10/22/07	CLP ILM05.4 Perfector
7440-70-2	Calcium	120000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	🏍 Chromium 🥂 💷	9.6DQ-2	KA Ug/L	10	10/17/07	10/22/07	CLP ILM05.4 Pi
7440-48-4	Cobalt	2.4 U, J, Q-2,	ug/L .	50	10/17/07	10/22/07	CLP ILM05.4 P
		CLP03					NAVE IN CASE OF CASE
7440-50-8	Copper 22 94	0.098 H	ug/L	25	10/17/07	10/22/07	CLPTLM05.4 Part
7439-89-6	Iron	10000	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1			v, if ug/⊡s	10	-10/17/0741	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	34000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	3200	5- ug/L	<u>, 15</u>	10/17/07	10/22/07*	CLP ILM054 P
7440-02-0	Nickel	5.2 J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	4500 J, Q-2, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05/4 P
7782-49-2	Selenium	35 U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	1.04J, Q-2	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P.
7440-23-5	Sodium	320000	ug/L	25000	10/17/07	10/22/07	CLP ILM05,4 P
7440-28-0	te Thallium a season	· · · · · · · · · · · · · · · · · · ·	an as ug/Ly	25	-10/17/07	10/22/07	CLP ILM05.4 Pe
7440-62-2	Vanadium	16 J, Q-2, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinč		12 - 17 . ug/L	60	*10/17/07**	°10/22707	CLP ILM05.4 P

UNITED STATES	UNITED STATES ENVIRONMENTAL PROTECT Region 4 Science and Ecosystem Support D 980 College Station Road, Athens, Georgia 30 D.A.R.T. Id: 08-0029	TION AGENCY Division D605-2700
	Classical/Nutrient Analyses	S
Project: 08-0029, Red Par よりークN Sample ID: <u>RP-MW-0</u> Station 1D:	1ther Chemical Co MN -01 (au) 11 Lab ID: <u>C074201-03</u> Matrix: Groundwater	Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY
Date Collected: 10/9/07 15 CAS Number Analyte	5:01 Results: Qualifiers Development	MRL Prepared Analyted Method

57-12-51 T Cyanide 10 U ug/L 10 10/19/07 10/19/07 CLP ILM05/4 AS

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Total Metals

Project: 08-0029, Red Panther Chemical Co RP - OMW - 02 (a)

Lab ID: <u>C074201-04</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W7 BONNER D No: 46W7 SHEALY

Station ID:

Date Collected: 10/9/07 15:01

Sample ID: <u>RP-MW-02</u>

CAS Number	Analyte to a 18 and a	ng Results Qualifiers	Units	ar MRL Prepa	ired Analyzed	Method
7439-97-6	Mercury at a me	2^{-1} , $\lambda = 0.20$ (0 \sim 22 ~ 22	ug/L ⁱ ał	in 0:20 - 10/2	4/07	CLP ILM05/4 CV
7429-90-5	Aluminum	6600	ug/L	200 10/11	7/07 10/18/07	CLP ILM05,4 P
7440-36-0	Antimony	🌮 😽 60 U, J, QM-1	ug/L ∖	<u> 60 10/1</u>	7/07 10/22/07	CLP/ILM05.4 P
7440-38-2	Arsenic	36 J, QM-1	ug/L	10 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-39-3	Barium	900	ug/L	200 10/1	7/07 10/22/07	CLP ILM054 P
7440-41-7	Beryllium	0.47 J, Q-2	ug/L	5.0 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	5.0 U	≏∕sug/L 3.	5.0 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	120000	ug/L	5000 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	9.5 J, Q-2	tug/L	10 10/1	7/07 10/22/07	CLP1LM054 P
7440-48-4	Cobalt	2.3 U, J, Q-2,	ug/L	50 10/1	7/07 10/22/07	CLP ILM05.4 P
		CLP03				
7440-50-8	Copper tarta di s	3.0 J, Q-2	Fug/L		7/07: 10/22/07	CLP ILM054 P
7439-89-6	Iron	100000	ug/L	100 10/1	7/07 10/22/07	CLP ILM05.4 P
7439-92-1	llead see	107U 👾	ug/L	····· 101, 10/1	7/07 4 10/22/07	CLP ILM05'4 P
7439-95-4	Magnesium	33000	ug/L	5000 10/1	7/07 10/22/07	CLP ILM05.4 P
7439-96-5	Manganese 🙀	3200	ug/L	15 -5/10/1	7/07 10/22/07	CLP IL M05 4 P
7440-02-0	Nickel	6.8 J, Q-2	ug/L	40 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	8000/J, Q-5	😌 ug/L	5000 10/1	7/07 10/18/07	CLP ILM05.4 P
7782-49-2	Selenium	35 U, J, QM-1	ug/L	35 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10 U	⁷ ≓ug/L ∰	10 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-23-5	Sodium	2700000	ug/L	150000 10/1	7/07 10/29/07	CLP ILM05.4 P
7440-28-0	Thallium +	25 U	ug/L	25 10/1	7/07 10/22/07	ÇLP ILM05.4 P
7440-62-2	Vanadium	16 J, Q-2, Q-5	ug/L	50 10/1	7/07 10/22/07	CLP ILM05.4 P
7440-66-6	Zinc	25 U, J, Q-2,	ug/L	60 10/1	7/07 10/22/07	CLP ILM05.4 P
Sec. 2	e e e e e e e e e e e e e e e e e e e				1.1.1	· · · · · · · · · · · · · · · · · · ·



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co RP-DMW-02 AD Sample ID: <u>RP-MW-02</u>

Station ID:

Lab ID: C074201-04

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W7 BONNER **D No: 46W7 SHEALY**

Date Collected: 10/9/07 15:01




Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-DS-01</u>

Lab ID: <u>C074201-05</u>

Contract Lab Case: 36903 MD No: 46T2 BONNER D No: 46T2 SHEALY

Station ID:

Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS	Analyte		Results	Ouallfiers	Units	MRL	Prenared	Analyzed	Method
			<u>in the states of the states o</u>	The sector of the					Statement of the state
7439-97-644	Mercury		. 0.31	Marine Co.	ug/L	0.20	10/24/07	10/24/07	CEPJEM05.4 CV
7429-90-5	Aluminum		3400		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony		60	U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic		10	U, J, QM-I	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium		620		ug/L	200	10/17/07	10/22/07	CLP.ILM05.4 P
7440-41-7	Beryllium		2.0	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium		5.0	U Strange	ug/L v	~ 5.0	10/17/07	10/22/07.	CLP ILM05.4 P
7440-70-2	Calcium		72000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium		7.3	J, Q-2,	ug/L	10	10/17/07	10/22/07	CLP-ILM05.4 P
7440-48-4	Cobalt		12	U, J, Q-2,	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
	2.2			CLP03					
7440-50-8	Copper		<u>, 43</u>		neug/L	25	10/17/07	10/22/07	CLP/ILM05/4 P
7439-89-6	Iron		7800		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead		13	NE IT FR	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium		23000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese		2 <u>6</u> 1 2000		ti sug/L i sa	15	10/17/07	10/22/07	CLP,IEM05.4 P
7440-02-0	Nickel		20	J, Q -2	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium		6300	J, Q-5	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P
7782-49-2	Selenium		35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver		10	U	ug/L - 1	10	10/17/07	× 10/22/07	CLP ILM05.4 P
7440-23-5	Sodium		89000		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium.v.		⊋ [™] 25	U. S. S.	ug/L	25		+10/22/07	CLP.IEM05.4 P
7440-62-2	Vanadium	al al fai an a maraith ann a la sa an	22	J, Q-5, Q-2	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinć		410	J, Q-5	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-DS-01</u> Station ID: Lab ID: <u>C074201-05</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T2 BONNER D No: 46T2 SHEALY

Date Collected: 10/11/07 13:15





Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-01</u> Station ID: Lab ID: <u>C074201-06</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T8 BONNER D No: 46T8 SHEALY

Date Collected: 10/11/07 12:40

CAS Number	Analyte	Results Qualifiers	Units, +-	MRL P	repared 🦛 Analyzed	Method
7439-97:6	Mercury 👓	**************************************	ug/L [#]	≁0.20 ì	0/24/07 10/24/07	CLP.ILM05.4 CV
7429-90-5	Aluminum	13000	ug/L	200 I	0/17/07 10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60 U, J, QM-1	i ug/L2 instant	60> 1	0/17/07 10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	10 U, J, QM-1	ug/L	10 I	0/17/07 10/22/07	CLP ILM05.4 P
7440-39-3	Barium	290 🗮	ug/L	200,1	0/17/07 10/22/07	CLP ILM05.4 P
7440-41-7	Beryllium	0.70 J, Q-2	ug/L	5.0 1	0/17/07 10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	<u>y</u> 5 0 U = +	W Hug/LTX	5.03. 1	0/17/07_ 10/22/07	CLP ILM05 4 P
7440-70-2	Calcium	60000	ug/L	5000 1	0/17/07 10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	4 n 14	ug/L	10 1	0/17/07 10/22/07	CLPJLM05.4 P
7440-48-4 ,	Cobalt	6.1 U, J, Q-2,	ug/L	50 i	0/17/07 10/22/07	CLP ILM05.4 P
7440-50-8	Conner	218 1 0-2	Wind in the	251	0/17/07 10/22/07	CI P.II.M054 P.
7439-89-6	Iron	13000	ug/L	100 1	0/17/07 10/22/07	CLP ILM05.4 P
7439-92-1	Lead	10 H	ug/	10	0/17/07 10/22/07	CLP/ILM05/4 P
7439-95-4	Magnesium	19000	ug/L	5000 i	0/17/07 10/22/07	CLP ILM05.4 P
7439-96-5	Manganese		Sug/Line with	°n⊈ 15™. I	0/17/07 10/22/07	CLP ILM05.4 Pasta
7440-02-0	Nickel	12 J, Q-2	ug/L	40 1	0/17/07 10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	6000 J,Q-5⊑	ug/L	5000 i	0/17/07 10/18/07	CLP, ILM05.4 P
7782-49-2	Selenium	35 U, J, QM-1	ug/L	35 1	0/17/07 10/22/07	CLP ILM05.4 P
7440-22-4	Silver 2, 51, 54 - 540		jug/L [×] s≩	29 10 1	0/17/07 10/22/07	CLP ILM05/4 Parties
7440-23-5	Sodium	22000	ug/L	5000 i	10/17/07 10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25 U 👘 👘	ug/L	25	0/17/07 10/22/07	CLP.ILM05.4 P
7440-62-2	Vanadium	27 J, Q-2, Q-5	ug/L	50 1	10/17/07 10/22/07	CLP ILM05.4 P
7440-66=6	Zinc 📲 🕂 🚦	43 U, J, Q-2, Q-5	°™ug/L	60	0/17/07 10/22/07	CLP ILM054 P



Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u>

Station ID:

Lab ID: <u>C074201-07</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T9 BONNER D No: 46T9 SHEALY

Date Collected: 10/11/07 11:07

CAS Number	h Suce	Analyte	in di A		id ^a n. 182	Resul	s Qualifier	s 10 1	Units		MRL 1	Prépared	Analyzed	Method	
7439-97-6		Mercury 🕺 -	1 25 1 3 ().			0.2	0 U 🤅 🏯	to i	ug/L ³	3¥	**0.20	10/24/07	10/24/07	CĽP. IL	M05.4 ÇV
7429-90-5		Aluminum				630	0		ug/L		200	10/17/07	10/18/07	CLP IL	.M05.4 P
7440-36-0		Antimony 🗮 👐		Ş. 34.	9965 - 20	a share a	0 U, J, QN	1-1	ug/L	-	60	10/17/07	10/22/07	CLP IL	M05.4 P
7440-38-2		Arsenic				1	0 U, J, QM	1-1	ug/L	,	10	10/17/07	10/22/07	CLP IL	M05.4 P
7440-39-3	<u>Tàr</u>	Barium	terest inst	4 ¹ 1		1	0 J, Q-2		ug/L';			10/17/07,2	10/22/07A	CLP/IL	M05.4 P.
7440-41-7	· ·	Beryllium				0.6	2 J, Q-2		ug/L		5.0	10/17/07	10/22/07	CLP IL	.M05.4 P
7440-43-9		Cadmium	Sector Contraction	98994 - 594-5 	 	<u>5</u>	0 U		ug/L	<u>ر محمد</u> الم	5.0	10/17/07	10/22/07	CLP IL	M05.4 P
7440-70-2		Calcium				31000	0		ug/L		5000	10/17/07	10/22/07	CLPIL	.M05.4 P
7440-47-3		Chromium			v.tr.	ai 🛊 6	8 J, Q-25		d∵, e∿ug/L ¹ ⊁	1988 1	in 10 ²	10/17/07	10/22/07	CLPIL	M05.4 P
7440-48-4		Cobalt				3	8 U, J, Q-2	<u>,</u>	ug/L		50	10/17/07	10/22/07	CLP IL	.M05.4 P
				385			CLP03	****							
7440-50-8	Annes	Copper		图 建管			5 U		₩ug/L ⁴¹	47 191 05.	਼੍ਰੋੋ25	10/17/07	10/22/07	CLP IL	.M05.4 P
7439-89-6		Iron				1200	0		ug/L		100	10/17/07	10/22/07	CLP IL	.M05.4 P
7439-92-1	1	Lead		e E file	7.00m.2-		0.U		ug/L	. 20	20 10 t	10/17/07	10/22/07	CLP.IL	M05.4 P
7439-95-4	_	Magnesium				10000	0		ug/L		5000	10/17/07	10/22/07	CLP IL	M05.4 P
7439-96-5		Manganese	¥. 47			²⁰⁰ 24(0 🗧 了		"ug/L		15	10/17/07	10/22/07	CLPIL	M05.4 P
7440-02-0		Nickel				5	8 J, Q-2		ug/L		40	10/17/07	10/22/07	CLP IL	.M05.4 P
7440-09-7	Â	Potassium	···· #.				0 J;Q-5	1 1	ug/Lax		5000₹	10/17/07	10/18/07.	CLPIL	M05.4 P
7782-49-2		Selenium				-	5 U, J, QN	1-1	ug/L		35	10/17/07	10/22/07	CLP IL	.M05.4 P
7440-22-4	ुर्म	Silver					0 U. 🐣		ug/L		10,	-10/17/07	10/22/07	CLP IL	M05.4 P
7440-23-5		Sodium	**************************************	/Pr//~~~~	•• v830 84	5200	0	är ninkinen nät	ug/L		5000	10/17/07	10/22/07	CLP IL	.M05.4 P
7440-28-0	<i>2</i> 4	Thallium 🦄				4	5 U		ug/L ^A	4 <u>15</u>	* 25*	10/17/07.	10/22/07	CLPIL	M05.4 P
7440-62-2		Vanadium	eranda - shittant			annonnikozaa'ni ar un	6 J, Q-2, Q)-5	ug/L	i et an an este a til filt	50	10/17/07	10/22/07	CLP IL	.M05.4 P
7440-66-6		Zinc			21 .*:1		2 U, J, Q-2		ug/L ;		€ 60 _¶	10/17/07	10/22/07	CLP IL	M05.4.P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u> Station ID: Lab ID: <u>C074201-07</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T9 BONNER

D No: 46T9 SHEALY

Date Collected: 10/11/07 11:07

4. ASS CAS E Number Results Qualifiers Units + Analyte MRL Prepared & Analyzed Method Sec. <u>.</u> CLP ILM05.4 A 7-12-5 Cyanid £10 U ug/L 10. 10/19/07 1 10/19/07



Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-09</u> Station ID: Lab ID: <u>C074201-08</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Date Collected: 10/11/07 7:50

CAS Number	Analyte	an a		Results	Qualifiers		Units	A MRL	Prepared	Analyzed	Method	
7439-97-6	K Mercury		16 1 4	4 . 5 011	U;1, Q-2, CLP01		ug/L		310/24/07 [†] #	-10/24/07	CLP ILM05	¥CV.
7429-90-5	Aluminum			11000)		ug/L	200	10/17/07	10/18/07	CLP ILM05	5.4 P
7440-36-0	Antimony 🚓				U,J,QM-	1	ug/L	60	10/17/07	10/22/07	CLP ILMO	4 P
7440-38-2	Arsenic			1() U, J, QM-	1	ug/L	10	10/17/07	10/22/07	CLP ILM05	5.4 P
7440-39-3	Barium		÷.	320 ···· 320)		the ug/L ⇒	• <u>1</u> ,200,	10/17/07	10/22/07	CLPILMO	4 P-2
7440-41-7	Beryllium			0.80) J, Q-2		ug/L	5.0	10/17/07	10/22/07	CLP ILM05	5.4 P
7440-43-9	Cadmium			. * 5.() U	- 	je ug/L	5.0	10/17/07	10/22/07	CLP ILM0	14 P
7440-70-2	Calcium	, huid free in the Renard		80000)		ug/L	5000	10/17/07	10/22/07	CLP ILM05	5.4 P
7440-47-3	Chromium			n 1	hen in the state	n Se	a ug/L	⊭ <u>,≪</u> 10	10/17/07	.10/22/071	CLP ILMO	5.4 P.
7440-48-4	Cobalt			6.9) U, J, Q-2,		ug/L	50	10/17/07	10/22/07	CLP ILM0	5.4 P
					CLP03				······································			
7440-50-8	Copper	×167	<u>. : : : : : : : : : : : : : : : : : : :</u>	<u>i i i i i i i i i i i i i i i i i i i </u>	5 J, Q-2.	I Re	v ug/L		10/17/07	10/22/07	CLPILMO	4 P 24
7439-89-6	Iron			11000)		ug/L	100	10/17/07	10/22/07	CLP ILM05	5.4 P
7439-92-1	* Lead			5:1	∣J, Q-2	- · · \$	Sk I™ug/L	^{ra} ≌∿ 10	«1017/07 ⁵	10/22/07	CLP.ILM0	4 P
7439-95-4	Magnesium			26000)		ug/L	5000	10/17/07	10/22/07	CLP ILM05	5.4 P
7439-96-5	Anganese	¥ 4	- 1 9	55(<u>k</u>	ug/L	15.	10/17/07	10/22/07	CLP ILMO	5.4.P. _{ur}
7440-02-0	Nickel			14	I J, Q-2		ug/L	40	10/17/07	10/22/07	CLP ILM05	5.4 P
7440-09-7	Potassium	X (1)		4100) J, Q-5 🔮		ug/L	*5000*	10/17/07	10/18/07	CLP ILM0	4 P
7782-49-2	Setenium			35	5 U, J, QM-	1	ug/L	35	10/17/07	10/22/07	CLP ILM05	5.4 P
7440-22-4	Silver			ic) U 🧠 ;		ug/L	10	10/17/07	10/22/07	CLP ILM0	4 P
7440-23-5	Sodium			10000)		ug/L	5000	10/17/07	10/22/07	CLP ILM05	5.4 P
7440-28-0	a gThallium]			ງ 🔅 😒 2.	5'U 🖓 🐴	es st	ug/L	25	10/17/07	10/22/07	CLP ILMO	5.4 P
7440-62-2	Vanadium	·		21	7 J, Q-5, Q-	2	ug/L	50	10/17/07	10/22/07	CLP ILMO	5.4 P
7440-66-6	Zinc	i ger in	* e 4	ki	7 U, J, Q-2. ^U CLP03	Q-5,	ug/L	60,	10/17/07	10/22/07	CLP.IEM0	5.4 P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-09</u> Station ID: Lab ID: <u>C074201-08</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Date Collected: 10/11/07 7:50





Total Metals

Lab ID: C074201-09

Matrix: Groundwater

.

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-03</u>

Station ID:

Date Collected: 10/10/07 12:40

Contract Lab Case: 36903 **MD No: 46W0 BONNER** D No: 46W0 SHEALY

	Concered, -									
CAS Number	Analyte	i i i i i	Results	Qualifiers	Units	± ↓ MRL	Prepared	Analyzed	Method	an Port
7439-97-6	Mercury			¥4,25 %	± s≉ug/L	NF: Ng 0:20	10/24/07	10/24/07	CLP ILM05	4 CV
7429-90-5	Aluminum		31000		ug/L	200	10/17/07	10/18/07	CLP ILM05	.4 P
7440-36-0	Antimony *		60	Ü, J, QM-1♥	ug/L	60	10/17/07	10/22/07	CLP ILM05	4 P
7440-38-2	Arsenic		10	U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05	.4 P
7440-39-3	a Barium	x i i i i i i i i i i	g de	金融 推 部	ug/L	200	10/17/07	410/22/07	CLP ILM05	4 P 🚑
7440-41-7	Beryllium		3.9	J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05	.4 P
7440-43-9	Cadmium,	<u></u>	. 5 <u>.</u> 5.0	U _{re}	ug/L	.	10/17/07	10/22/07	CLP/ILM05	4 P 👘
7440-70-2	Calcium		580000		ug/L	5000	10/17/07	10/22/07	CLP ILM05	.4 P
7440-47-3	Chromium		<i>*</i> * 43′		ug/L	10	10/17/07	10/22/07	CLP ILM05	4 P/
7440-48-4	Cobalt		33	U, J, Q-2,	ug/L	50	10/17/07	10/22/07	CLP ILM05	.4 P
24/10/2010				CLP03				10/20/00	CI D UNIO	AD 1.7
7440-50-8	Copper		120000	J, Q-2	μg/L)	100		10/22/07	CLD II MOS	A D
7439-89-6	Iron	10.00	120000		ug/L		10/17/07	10/22/07	CLFILMUS	.+ r.
7439-92-1	A Leady Provide				ug/L**	5000	10/17/07	10/22/07		4) F
7439-95-4	Magnesium		160000	S. M.	ug/L	5000	10/17/07	10/22/07	CLP ILM05	4 P
7439-96-5	Mangarese	3. ¥** X	11000		St. Hind.Pl.	10 AC	10/17/07	¥10/22/07,	CLP ILMUS	AP
7440-02-0	Nickel		/6		ug/L	40	10/17/07	10/22/07	CLP ILMUS	.4 P
7440-09-7	Potassium		18000	J,Q-5	ug/L	5000	*10/17/07	10/18/07		4 P
7782-49-2	Selenium		35	U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05	.4 P
7440-22-4	Arr Silver		······································	U 🏀 🥂	°č ∩ug/L	5 LO	10/17/07	10/22/07	CLP ILM05	4 P
7440-23-5	Sodium		41000		ug/L	5000	10/17/07	10/22/07	CLP ILM05	.4 P
7440-28-0	Thallium 🗧 📞	- <u> </u>	南 1 25	UA A TA	}ug/L	25 B	10/17/07	_10/22/07	CLP ILM05	4)P 💥
7440-62-2	Vanadium		93	J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05	.4 P
7440-66-6	Zinc 😤 🔬	S. S. S.	¥- 180	J, Q-5 🔉 🤇	ug/L		10/17/07	10/22/07	CLP ILM05	4 P 4

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11/21/07 14:06



Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station 1D:

Lab ID: <u>C074201-10</u>

Matrix: Groundwater

Contract Lab Case: 36903 **MD No: 46W1 BONNER** D No: 46W1 SHEALY

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results Qualifiers	Units	MRL.	Prepared	Analyzed	Method
7439-97-6	Mercury	0.80	jag/L	0.20	10/24/07	10/24/07	CLP.ILM054 CV
7429-90-5	Aluminum	110000	ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P
7440-36-0	Antimony	60 U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	16 J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium,	40. 3200, ₁₀ 1	ug/C 👾 👾	200	10/17/07	10/22/075	CLP ILM05 4 P
7440-41-7	Beryllium	10	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cádmium 🔥	5.0 U	ug/L	-5.0	10/17/07	10/22/07	CLP/ILM05.4'P
7440-70-2	Calcium	750000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	120	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	93	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-50-8	Copper	<u>, 170</u> , .	}i}₩ug/L }	25	10/17/07	10/22/07	CLP/ILM054P
7439-89-6	Iron	250000	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1	Lead	120	ug/L 👡 🚲	10	10/17/07	10/22/07	CLP ILM05.4 P
7439-95-4	Magnesium	180000	ug/L.	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese 4	17000-	ug/L 🙀	315. Silvere	10/17/07	10/22/07	CLP ILM05.4 P
7440-02-0	Nickel	210	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Potassium	33000, J, Q-5 ut 16	nug/L 🦂 🛶	5000	10/17/07	10/18/07	CLP/ILM05'4 P
7782-49-2	Selenium	35 U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	10 0 年	ug/L	10	10/17/07	10/22/07	CLP ILMOS 4 P
7440-23-5	Sodium	19000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium	25 U 🚠 🙀	ug/L	.25	10/17/07	10/22/07	CLP ILMOS 4 P
7440-62-2	Vanadium	300 J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6 🚽	Zinc	500.J.Q-5	tug/L	60	10/17/07	10/22/07	CLP ILM05.4 P

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Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u> Station ID: Lab ID: <u>C074201-10</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46W1 BONNER D No: 46W1 SHEALY

Date Collected: 10/10/07 15:32





Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-07</u> Station ID: Lab ID: <u>C074201-11</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W3 BONNER D No: 46W3 SHEALY

Date Collected: 10/10/07 12:35

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Number	Analyte	Kesult	s Qualifiers	Unus ;	MRL	Prepared	Analyzed	Method	
7439-97-6	Mercury A		0 ⊎:*	, the ug/L ⊂	a 0.20 *	10/24/07	10/24/07	CLP/ILM05.	4CV 45
7429-90-5	Aluminum	520	0	ug/L	200	10/17/07	10/18/07	CLP ILM05.	.4 P
7440-36-0	Antimony	<u>12</u>	0 U, J, QM-	l 🛧 🙀 ug/L			10/22/07,	CLP ILM05.	4 P 44
7440-38-2	Arsenic	1	0 U, J, QM-	l ug/L	10	10/17/07	10/22/07	CLP ILM05.	.4 P
7440-39-3	Barium 👯 😤 👘	A 🙀 🚽 🙀 📲 👘 53	0 4 5	Jug/L	200	10/17/07	10/22/07	CLP IEM05	4 P
7440-41-7	Beryllium	0.3	6 J, Q-2	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.	.4 P
7440-43-9	Cadmium a	- The second	0 U	ug/Ľ	5.0	10/17/07	10/22/07	CLP ILM05	4 P
7440-70-2	Calcium	13000	0	ug/L	5000	10/17/07	10/22/07	CLP ILM05.	.4 P
7440-47-3	Chromium		9 J, Q-2	ug/L	.10	10/17/07	10/22/07	CLP ILM05	4 P
7440-48-4	Cobalt	3.	6 U, J, Q-2,	ug/L	50	10/17/07	10/22/07	CLP ILM05	.4 P
			CLP03			AND STREET			2 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1
7440-50-8	Copper	2	5 U 🥵 🦛	ug/Ly	25	10/17/07	©10/22/07	CLP.ILM05.	4 P
7439-89-6	Iron	1200	0	ug/L	100	10/17/07	10/22/07	CLP ILM05.	.4 P
7439-92-1	Lead		0∪	, ug/L	10 (10	10/17/07	- 10/22/07	CLP ILM05.	4 P - 14
7439-95-4	Magnesium	3800	0	ug/L	5000	10/17/07	10/22/07	CLP ILM05.	.4 P
7439-96-5	Manganese a gris	170 St. 170	0 * *	ug/L*	** , \$15	10/17/07	10/22/07	CLP'ILM05.	4 P
7440-02-0	Nickel	2.	9 J, Q-2	ug/L	40	10/17/07	10/22/07	CLP ILM05.	.4 P
7440-09-7	Potassium	460	0 J, Q-2, Q ²	5 ug/L	1 5000	10/17/07	10/18/07	CLP ILM05	4 P
7782-49-2	Selenium	. 3	5 U, J, QM-] ug/L	35	10/17/07	10/22/07	CLP ILM05.	.4 P
7440-22-4	Silver	Course of the second	0 U 🔬 🖓	ug/L	10	-10/17/07 m	10/22/07	CLP,ILM05	4 P
7440-23-5	Sodium	2700	0	ug/L	5000	10/17/07	10/22/07	CLP ILM05	.4 P
7440-28-0	Thallium	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 U/ 🚛 🛃	ug/L₁		10/17/07	¢10/22/07,	CLP ILM05	4 P
7440-62-2	Vanadium	. 1	2 J, Q-2, Q-	5 ug/L	50	10/17/07	10/22/07	CLP ILM05	.4 P
7440-66-6	Zinc State	3	3 U, J, Q-2,	ug/L	60	10/17/07	10/22/07	CLP ILM05	4 P
			CLP03 O	-5.				al Car	



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-07</u> Station ID: Lab ID: <u>C074201-11</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46W3 BONNER D No: 46W3 SHEALY

Date Collected: 10/10/07 12:35





Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46S7 BONNER

D No:

Sample ID: <u>RP-MB-01</u> Station ID: Lab ID: <u>C074201-12</u>

Matrix: CLP Metals Blank

Date Collected: 10/8/07 17:00

CAS Number	Analyte		Results	Qualifiers		Units	MRL	Prepared	Analyzed	Method	16 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
7439-97-6	Mercury		· 34 (0 ¹ 20	U		ug/L	** 0:20	10/24/07	10/24/07	CLP.ILM05.4 C	V. Stat
7429-90-5	Aluminum		57	J		ug/L	200	10/17/07	10/18/07	CLP ILM05.4 P	
7440-36-0	Antimony			UN		ug/L		10/17/07	10/22/07	CLP ILM05.4 P	120000
7440-38-2	Arsenic		10	U		ug/L	10.	10/17/07	10/22/07	CLP ILM05.4 P)
7440-39-3	Barium			U	Constant.	ug/L	200	10/17/07	10/22/07	CLP,ILM05.4 P	(The se
7440-41-7	Beryllium		5.0	U		ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P)
7440-43-9	Cadmium		-5.0	U		ug/[*	5.0	10/17/07	10/22/07	CLP.IEM05.4 P	
7440-70-2	Calcium		5000	U		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P	,
7440-47-3	Chromium		10	ប	_k/k 141	ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P	্রন্য উল্লেখ
7440-48-4	Cobalt		50	U		ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P)
7440-50-8	Copper		- 19 - 25	U	- 2	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P	
7439-89-6	Iron		100	U		ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P)
7439-92-1	Lead		a. 10	U	202	ug/L ₃₁	14 years 10,	10/17/07	10/22/07	CLP IL M05.4 P	τĘġ.,
7439-95-4	Magnesium		5000	U ·		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P	•
7439-96-5	Manganese		- 15	U		ug/L	15	10/17/07	10/22/07	CLP IL MOS.4 P	ge þiki
7440-02-0	Nickel		40	U		ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P	,
7440-09-7	Potassium	<u>, </u>	ź5000	U	. 14 7.	ug/L	5000	10/17/07	10/18/07	CLP ILM05.4 P	an a
7782-49-2	Selenium		35	U	•	ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P	
7440-22-4	Silver, e.,		S. 5, 110	U 🖓		rug/L	<u>، 10 مېرونې 10 مې</u>	10/17/07	10/22/07	CLP.ILM05.4 P	
7440-23-5	Sodium		5000	U ·		ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P	
7440-28-0	Thallium		25	U	ndan) An	ug/L	25	10/17/07	10/22/07	CLP ILM05.4 P	
7440-62-2	Vanadium		50	U		ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P	
7440-66-6	Zinc		3.0	J		ug/Ľ	60	10/17/07	10/22/07	CLP IEM05.4 P	1



Total Metals

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 4658 BONNER D No: 4658 SHEALY

Sample ID: <u>RP-RB-01</u> Station ID: Lab ID: <u>C074201-13</u>

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS	arte, april 2004.		te state the		re y the	figtor - se		ter and the second	Tre
Number	Analyte		Results Qualifiers	Units	MRL	Prepared	Analyzed	Method	
7430.97.6	Mercury		0.20 EF	ng/l	0.20	10/24/07	10/24/07	CLP.ILM05.4	ćv 🕬
7437-27-0		20.00	1,70,20 0			10/24/07	10/24/07		3
7429-90-5	Aluminum		39 U, J, Q-2, B-1	ug/L	200	10/17/07	10/18/07	CLP ILM05.4	Р
7440-36-0	Antimony		60 U, J, QM-1	ug/L	60	10/17/07	10/22/07	CLP ILM05.4	P
7440-38-2	Arsenic		10 U, J, QM-1	ug/L	10	10/17/07	10/22/07	CLP ILM05.4	Р
7440-39-3	Barium		200 U+	ug/L	200	10/17/07	10/22/07	CLP ILM05.4	P
7440-41-7	Beryllium		5.0 U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4	Р
7440-43-9	Cadmium		🦉 5.0 U	⊶ug/L	⊖.⊊.,5:0	10/17/07	10/22/07	CLP ILM05.4	P
7440-70-2	Calcium		5000 U	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4	Р
7440-47-3	Chromium		10 U	√, ug/L	10	10/17/07	10/22/07	CLP ILM05.4	P
7440-48-4	Cobalt		50 U	ug/L	50	10/17/07	10/22/07	CLP ILM05.4	Р
7440-50-8	Copper	West New	5 25 U 🦮	ug/L	a 25	10/17/07	10/22/07	CLP ILM05.4	P 🍀
7439-89-6	Iron	a a an	5.2 R, Q-2, CLP04	ug/L	100	10/17/07	10/22/07	CLP ILM05.4	P
7439-92-1	- Lead	OI:	10 U	ug/L	' - . 10	10/17/07	710/22/07	CLP ILM05.4	P 🤅
7439-95-4	Magnesium		3.9 R, Q-2, CLP04	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4	P
7439-96-5	Manganese			ug/L	<u></u> 15	10/17/07	10/22/07	CLP ILM05.4	P: A
7440-02-0	Nickel		40 U	ug/L	40	10/17/07	10/22/07	CLP ILM05.4	P
7440-09-7	Potassium	1. 1 . 1. 1. 1. 1.	75000 U, J, Q-5 4	i f. ug/L	5000	10/17/07	10/18/07	CLP ILM05.4	P 2 2
7782-49-2	Selenium		35 U, J, QM-1	ug/L	35	10/17/07	10/22/07	CLP ILM05.4	P
7440-22-4	Silver 🖉	144 J. J. J.		ian in ug/L		10/17/07	. 10/22/07,	CLP ILM05.4	P
7440-23-5	Sodium	in an an ' Andre Miller and a san dha ann an Anna an An	140	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4	P
7440-28-0	🐄 Thallium		25 U 2	VtR,, ug/L ∰r_	3 5, 25≯	410/17/07	-10/22/07	CLP ILM05.4	P 4
7440-62-2	Vanadium	annan an - Friddichi, Kirlin Weldyn	50 U, J, Q-5	ug/L	50	10/17/07	10/22/07	CLP ILM05.4	P
7440-66-6	Zinc		1.8 U.J.Q-2	is c.ug/L →	-35.60	110/17/07	10/22/07	CLP ILM05.4	P
			CLP03, O-5			180			



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

Sample ID: <u>RP-RB-01</u> Station ID: Lab ID: <u>C074201-13</u> Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30





Total Metals

Lab ID: <u>C074201-</u>14

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u>

Station ID:

Date Collected: 10/8/07 16:13

Contract Lab Case: 36903 MD No: 46T0 BONNER D No: 46T0 SHEALY

CAS Number	Analyte	and the Results Qu	alifiers 😰 🦹 Units	MRL	Prepared	Analyzed	Method
7439-97 , 6	Mercury, Ale a	0.20 U	ug/L	0.20	10/24/07	10/24/07	CLP ILM05.4 CV
7429-90-5	Aluminum	180 J, C	Q-2 ug/L	200	10/17/07	10/29/07	CLP ILM05.4 P
7440-36-0	Antimony *	60 U,	J, QM-1	60	10/17/07	10/22/07	CLP ILM05.4 P
7440-38-2	Arsenic	29 J, (QM-1 ug/L	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-39-3	Barium	400	, f≩ 4 sug/L		> `10/17/07	10/22/07	CLP ILM054 P
7440-41-7	Beryllium	5.0 U	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-43-9	Cadmium	s; - 5.0 U [#]	ug/L	5.0	10/17/07	10/22/07	CLP ILM05.4 P
7440-70-2	Calcium	110000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-47-3	Chromium	, so -+	<u>)</u> -2 _{,λ,γ} , i≩, i≷, ug/L,	10	10/17/07	10/22/07	CLP ILM05.4 P
7440-48-4	Cobalt	1.7 U,	J, Q-2, ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
	annan maalaan ja	CL	P03				
7440-50-8	Copper	25 U.	ug/La	25	10/17/07	L 10/22/07	CLP.ILM05.4 P
7439-89-6	Iron	6300	ug/L	100	10/17/07	10/22/07	CLP ILM05.4 P
7439-92-1*	Lead	≤ S 10 U	ug∕L∖	28 [.] 10	10/17/07	-10/22/07	CLP ILM054 P
7439-95-4	Magnesium	41000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7439-96-5	Manganese	3100	ug/L.	, il S	6, 10/17/07	310/22/07	CLP/ILM05.4 P
7440-02-0	Nickel	40 U	ug/L	40	10/17/07	10/22/07	CLP ILM05.4 P
7440-09-7	Polassium	3600 J, (2-5 1 ug/L	5000	10/17/07	10/29/07	CLP ILM05 4 P
7782-49-2	Selenium	35 U,	J, QM-1 ug/L	35	10/17/07	10/22/07	CLP ILM05.4 P
7440-22-4	Silver	μ	ug/L	i0	10/17/07	10/22/07	CLP ILM05 4 P
7440-23-5	Sodium	15000	ug/L	5000	10/17/07	10/22/07	CLP ILM05.4 P
7440-28-0	Thallium?	25 U	ug/L	- 25	. 5.10/17/07	10/22/07	CLP ILM05.4 ^P
7440-62-2	Vanadium	50 U,	J, Q-5 ug/L	50	10/17/07	10/22/07	CLP ILM05.4 P
7440-66-6	Zinc in the	4.3 U. CL	J, Q-2, . ug/L [*] P03, Q-5	¥ 460	10/17/07	10/22/07	CLP ILM05.4 P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u> Station 1D: Lab ID: <u>C074201-14</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T0 BONNER D No: 46T0 SHEALY

Date Collected: 10/8/07 16:13





Total Metals

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u> Station ID:

Lab ID: <u>C074201-15</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Date Collec	ted: 10/8/07 13:00				
CAS Number	Analyte # Since Rice &	Results Qualifiers	Unis ^{te} 47 1	MRL Prepared	Analyzed Method
7439-97-6	Mercury	CLR01 & CLR01 &	si tug∐∵sinti Tug∐∵sinti	0.20 710/24/07	5 10/24/07 CEP ILM05.4 CV
7429-90-5	Aluminum	21000	ug/L	200 10/17/07	10/18/07 CLP ILM05.4 P
7440-36-0 7440-38-2	Antimony, Antimony, Antimony, Arsenic	60,U,J;QM-I 10 U, J, QM-1	ug/L	60 10/17/07 10 10/17/07	10/22/07/ CLP ILM05.4 P , 42/2010 10/22/07 CLP ILM05.4 P
7440-39-3 7440-41-7	Barium Beryllium	590.2 1.7 J, Q-2	ug/L ug/L	200 ,10/17/07 5.0 10/17/07	10/22/07 CLP.ILM05.4 P 10/22/07 CLP.ILM05.4 P
7440-43-9	Câdmium 🖈 😬 🐇	5.0 U	ug/L	5.0 10/17/07	10/22/07 CEP ILM05.4 P
7440-70-2	Calcium	100000	ug/L 5	5000 10/17/07	10/22/07 CLP ILM05.4 P
7440-47-3	Chromium 💈 🕅 😚 🌾 🕂 🖒	2317	Tug/L'	10 10/17/07	10/22/07 CLP ILM05.4 P
7440-48-4	Cobalt	21 U, J, Q-2, CLP03	ug/L	50 10/17/07	10/22/07 CLP ILM05.4 P
7440-50-8	Соррет	25	ug/L 3	25 10/17/07	10/22/07 CLP ILM05.4 P.
7439-89-6	Iron	38000	ug/L	100 10/17/07	10/22/07 CLP ILM05.4 P
7439-92-1	Lead 4	20	ug/L	10 310/17/07	10/22/07 CLP ILM05.4 P
7439-95-4	Magnesium	39000	ug/L 5	5000 10/17/07	10/22/07 CLP ILM05.4 P
7439-96-5	Manganese	2900 ₽	ug/L ^{ear}	15 10/17/07	10/22/07 CLP ILM05.4 P
7440-02-0	Nickel	47	ug/L	40 10/17/07	10/22/07 CLP ILM05.4 P
7440-09-7	Potassium		ug/L	5000 10/17/07	The 10/18/07 CLP TLM05.4 P
7782-49-2	Selenium	35 U, J, QM-1	ug/L	35 10/17/07	10/22/07 CLP ILM05.4 P
7440-22-4	Silver	10 U 🖏 🖓	🛪 👔 ug/L 😽 🕂	10 10/17/07	5.10/22/07 CLP ILM05.4 P.
7440-23-5	Sodium	15000	ug/L 5	5000 10/17/07	10/22/07 CLP ILM05.4 P
7440-28-0	Thallium	25 U 🔬 🔬	ug/L	25 10/17/07	10/22/07 CLP ILM05.4 P
7440-62-2	Vanadium	59 J, Q-5	ug/L	50 10/17/07	10/22/07 CLP ILM05.4 P
7440-66-6	Zinc	120 J 0-5	Sug/L	60 10/17/07	10/22/07 CLP/ILM05.4 P



Classical/Nutrient Analyses

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u> Station ID: Lab ID: <u>C074201-15</u>

Matrix: Groundwater

Date Collected: 10/8/07 13:00

Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY





December 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT:	FINAL Analytical Report
	Project: 08-0029, Red Panther Chemical Co
	Superfund Remedial
FROM:	Charlie Appleby
	Quality Assurance Section Chemist
THRU:	Marilyn Maycock, Chief
	Quality Assurance Section
TO:	Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Semi Volatile Organics (SVOA) Semivolatile organic compounds

CLP BNA



Report Narrative for Work Order C074201, Project: 08-0029 Data Review and Validation Report Site Name: Red Panther Chemical, Clarksdale, MS Case No. 36903 ELEMENT Nos. C074201-01 - C074201-20 Sampling Dates: 10/07 - 11/07

Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of fifteen water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below.

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in



sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Organic Analysis: Shealy Environmental, West Columbia, SC

The ESAT Work Team reviewed data for eighteen water samples analyzed for volatiles, semivolatile extractables, aroclors, and pesticides, per CLP statement of work SOM01.2. The samples were received by the laboratory between 10/10/07 and 10/12/07, and the data package was received on 11/05/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The laboratory scored within warning limits for all spiked compounds in the water volatile PES except for 1,2,3-trichlorobenzene which was scored as action low and 4-methyl-2-pentanone and 1,4-dioxane which were both scored as warning low. Also the laboratory reported the presence of both methylene chloride and trichloroethene which were both scored as PES contaminants at less than the CRQL. The laboratory did not analyze this PES concurrently with the actual field samples, and it was not used to qualify data.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results associated with the volatile DMC 1,2-dichloropropane-d6, which had a low recovery, were "J" qualified in sample C074201-03 (D46W6). Low semivolatile extractable DMC recoveries were observed in samples C074201-14 (D46T0), C074201-15 (D46T1), C074201-03 (D46W6), C074201-04 (D46W7), C074201-05 (D46T2), C074201-07 (D46T9), C074201-08 (D46W4), and C074201-10(D46W1). All analytes associated with these DMCs were "J" qualified unless the DMC recovery was less than 10% ("R" qualified).

All pesticide surrogate recoveries (<10% for decachlorobiphenyl) were low in sample C074201-02 (D46W2) for both the original analysis and the reextraction. All positive pesticide results were "J" qualified and all nondetected pesticide results were "R" qualified in this sample. Low decachlorobiphenyl recoveries were reported for samples C074201-03 (D46W6), C074201-05 (D46T2), C074201-06 (D46T8), C074201-09 (D46W0), C074201-11 (D46W3), C074201-14 (D46T0), and C074201-15 (D46T1). The laboratory reextracted all of these samples outside technical holding time limits, except for C074201-05 (D46T2) due to insufficient sample volume remaining, because the associated method blank (PBLK14) also had low decachlorobiphenyl recovery. Similar recoveries were reported for the reextractions. All positive results and all nondetect pesticide results were "J" qualified whenever these low recoveries exceeded 10% in these seven samples. Nondetect results were "R" qualified whenever surrogate recoveries were less than 10%.

All aroclor results were "J" qualified in samples C074201-08 (D46W4), C074201-14 (D46T0) and C074201-15 (D46T1) due to low recoveries for the surrogate decachlorobiphenyl. All aroclor results were "R" qualified in sample C074201-05 (D46T2) due to decachlorobiphenyl recoveries of less than 10%. The SOW does not require



any corrective action so long as one aroclor surrogate recovery is acceptable.

The native sample (unspiked C074201-15/D46T1) pesticide chromatogram did not resemble those for the MS or MSD. For example, the beta-BHC which was not spiked was reported as "0.050 ug/l U" in the native sample but as 7.3 and 6.8 ug/l in the MS and MSD respectively. The chromatograms for the aroclor fraction of the same sample (both native and MS/MSD) appeared to be more consistent with a high BHC result. However, a definitive conclusion can not be made because the laboratory used different columns than those used for pesticides. Upon discussions with the site's Project Manager and laboratory personnel it was determined that these water samples had unusually large amounts of particulates present and it was plausible that sample non-homogeneity could be the source of these differences. However, the reviewer could not rule out the possibility of samples being crossed in the field or at the laboratory. Effects due to possible sample non-homogeneity were not apparent in the volatile or semivolatile analyses. Therefore, all groundwater pesticide results were "J" qualified.

The volatile analyte 1,4-dioxane responded poorly (RRF < 0.0050) in an ending calibration check standard. All associated sample results were "R" qualified.

Two volatile and six semivolatile extractable compounds exhibited erratic continuing calibration performance necessitating that all associated results be "J" qualified.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-RB-01	C074201-13	46S8	4658	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42



DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte low in continuing calibration verification standard
QC-2	Analyte high in continuing calibration verification standard
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



Semi Volatile Organics

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co RP - OMW - 0Sample ID: <u>RP-MW-01</u>

Lab ID: C074201-03

Contract Lab Case: 36903 **MD No: 46W6 BONNER D No: 46W6 SHEALY**

Station ID:

Date Collected: 10/9/07 15:01

CAS							
Number,	Analyte	Results Qu	alifiers Units	, MRL	Prepared	Analyzed	Method
						2.2 miles in the second	
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U ·	úg/L	5.0	10/16/07	10/18/07	CLP SOM01/2 B
92-52-4	1,1-Biphenyl	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-94-3	1.2.4,5-Tetrachlorobenzene	5.0°U	·ug/L	- <u>-</u> 5.0	F 10/16/07		CLP SOM012B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-95-4	2.4.5-Trichlorophenol	에 ₅₅ 위 ⁴ , 5.0 년	ner:figug∕L`	- si <u>5</u> .0	\$10/16/07	10/18/07	CLP SOM01-2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
120-83-2	2.4-Dichlörophenol		ting ug/L	5.0		10/18/07 04	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
51-28-5	2.4-Dinitrophenol	10 Ú.	jug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
606-20-2	2.6 Dinitrotoluene	5.0 UP	÷ŭg∕L	5.0	10/16/07 -	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	· 5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol		in Strang/L	5.0	10/16/07	10/18/07	CLP SOM01:2 B *
534-52-1	2-Methyl-4,6-dinitrophenol	10 U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U	ug/L	5.0	10/16/07,	_10/18/07	CLP SOM01 2 B
95-48-7	2-Methylphenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 Ú	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-94-1	3.3 Dichlorobenzidine	5.0 U,	J, QC-2		ex 10/16/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	. 10 U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether		ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	20 C T S O U	ug/L	St. 5.0		10/18/07	CLP SOM012B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10 U	ug/L	10	10/16/07	10/18/07	CLP SOM01 2 B
100-02-7	4-Nitrophenol	10 U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U	ţûĝ/L	5.0	10/16/07	10/18/07	CLP SOM01 2 B
208-96-8	Acenaphthylene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	5.0,U	ka waa ya ug∕L	44. ··· 5:0	10/16/07	* 10/18/07	CLP SOM01 2 B
120-12-7	Anthracene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine	5.0 Uz	t ug/L	5.0	31, 10/16/074	310/18/07	CLP SOM01 2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co RP - OMW - 01

Sample ID: <u>RP-MW-01</u>

Station ID:

Lab ID: <u>C074201-03</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY

Date Collected: 10/9/07 15:01

CAS	a section of the sect	17. 19. 18. 16. 19. 19.	N 174	Marine Sa				
Number	Analyte and the second second	Results · Qualifiers :	w Units 👘 🚈	MRL	Prepared	Analyzed	Method	
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
56-55-3	Benzo(a)anthracene	15.0 U Sa Sata 4	👔 👔 ug/L	5.0 s	10/16/07	10/18/07	CLP SOM0	12B.
50-32-8	Benzo(a)pyrene	5.0 U, J, QS-3	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
205-99-2	Benzo(b)fluoranthene	5.0.U, J. QS-3	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, J, QS-3	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
207-08-9	Benzo(k)fluoranthene	5.0 U, J, QS-3	ug/L	=5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
111-91-1	Bis(2-chloroethoxy)methane	50U 🙀 🙀 🚧	🗮 🙀 ug/L 😰 🦾	5,0,	10/16/07	10/18/07	CLP SOM0	1.2·B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U	ug/L	.5.0	10/16/07 🔐	10/18/07	CLP SOM0	1.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
105-60-2	Caprolactam	√5.0 U [*] ¹ / ₂ ¹ / ₂ ¹ / ₂	·ug/L	35.0	10/16/07	10/18/07	CLP SOM0	12B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
218-01-9	Chrysene ga	5.0 U., 🖬 🛓 🐄	i ig/L 🌜 🖏	₩ 5.0	10/16/07/1	10/18/07	CLP SOM0	1.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, J, QS-3	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
132-64-9	Dibenzofuran	5.0 U	ug/L	5.0,	10/16/07	10/18/07	CLP SOM0	128
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
131-11-3	Dimethyl phthalate	5.0 U .	ug/L	. 5.0*	10/16/07	10/18/07	CLP SOM0	1.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
117-84-0	fiDi-n-octylphthalate of the Paris and Anna and	, 5.0 U, J, QC-1 ≢	F i ug∕L ² →	,5.0 ⊭	10/16/07	10/18/07	CLP SOM0	12B 🖗
206-44-0	Fluoranthene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
86-73-7	Fluorene	5.0 U		5.0	10/16/073	-10/18/07 ₃₀	CLP SOM0	12 <u>8</u> :
118-74-1	Hexachlorobenzene (HCB)	5.0 U .	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
87-68-3	Hexachlorobutadiene	5.0 U, 🚛 🔬	ug/L	5.0	10/16/07	10/18/07 -	CLP.SOM0	1.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
67-72- <u>1</u>	Hexachloroethane	5!0 ⊍	e in ug/L ^{um}	5:0 -	10/16/07	10/18/07	CLP SOM0	1.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U, J, QS-3	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
78-59-1	Isophorone	5.0 Up 👔 🖅	ug/L	5:0 _c /	10/16/07 🚑	10/18/07	CLP SOM0	1.2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B
98-95-3	Nitrobenzene	5.0 U	ug/L	5.0	0/16/07	10/18/07	CLP SOM0	1.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM0	1.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co RP = 0 MW - 01

Sample ID: <u>RP-MW-01</u>

Lab ID: <u>C074201-03</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY

Date Collected: 10/9/07 15:01

Station ID:

CAS						Service and					
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method				
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B				
87-86-5	Pentachlorophenol	10 U	ug/L	10	10/16/07	10/18/07	CLP SOM01.2 B				
85-01-8	Phenanthrene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP.SOM01.2 B				
108-95-2	Phenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B				
129-00-0	Рутеле	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B				
Tentativ	Tentatively Identified Compounds:										
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/16/07	10/18/07	CLP SOM01.2 B				



Semi Volatile Organics

Lab ID: <u>C074201-04</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co RP-OMW .02

Sample ID: <u>RP-MW-02</u>

Station ID:

Date Collected: 10/9/07 15:01

Contract Lab Case: 36903 MD No: 46W7 BONNER

D No: 46W7 SHEALY

CAS		Bin and a second se					к.	
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method	
1319-77-3	(3-and/or 4-)Methylphenol	\$10 U	ug/L	5.0	10/16/07	10/18/07	CLP.SOM01	2 B
92-52-4	1,1-Biphenyl	5.0 U ,	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	2 B
95-94-3	1.2,4,5-Tetrachlorobenzene	s(0,U)	=ug/L	5.0	10/16/07	10/18/07	CLP SOM01	28
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	2 B
95-95-4	2,4,5-Trichlorophenol	50 U		×××5.0	10/16/07	10/18/07	CLP SOM01	2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	.2 B
120-83-2	2.4-Dichlorophenol	500	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	2 B
105-67-9	2.4-Dimethylphenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	.2 B
51-28-5	2,4-Dinitrophenol	10 U	t-sug/L	10	· 10/16/07	10/18/07	CLP SOM01	2B
121-14-2	2,4-Dinitrotoluene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	.2 B
606-20-2	2.6-Dinitrotoluene	5.0 U	ug/L-***	5.0*	10/16/07	10/18/07	CLP SOM01	.2 B
91-58-7	2-Chloronaphthalene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	.2 B
95-57-8	2-Chlorophenol	50 U St.	ug/L	. 5.0	10/16/07	10/18/07	CLP SOM01	2 B>
534-52-1	2-Methyl-4,6-dinitrophenol	10 U	ug/L	10	10/16/07	10/18/07	CLP SOM01	.2 B
91-57-6	2-Methylnaphthalene	¥750.USF	ug/L	5.0	10/16/07	10/18/07)	CLP SOM01	2 B
95-48-7	2-Methylphenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	.2 B
88-74-4	2-Nitroaniline	10 U	ug/L	10	10/16/07	10/18/07	CLP.SOM01	2B
88-75-5	2-Nitrophenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0 U, J, QC-2	ug/L Age	5.0	10/16/07	10/18/07	CLPSOMUT	<u>7</u> В
99-09-2	3-Nitroaniline	10 U	ug/L	10	10/16/07	10/18/07	CLP SOMOI	.2 B
101-55-3	4-Bromophenyl phenyl ether	50 U.	ug/L ¹ sife	5.0%	10/16/07	10/18/07	CLP SOMUL	20
59-50-7	4-Chloro-3-methylphenol	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOMOT	.2 D
7005 72 2	4 Chlorophonyl phonyl ether	SO U	ug/Ly/by	5.0	10/16/07	10/18/07	CLP SOM01	2 D
1005-72-5	4-Chlorophenyr phenyr ener		ug/L	5.0 10	10/16/07	10/18/07	CIPSOMOI	7B
	4 Nitrophonel	10-0	ug/l	10	10/16/07	10/18/07	CLP SOM01	2 B
100-02-7	Aconspittere		ug/L	30	10/16/07	10/18/07	CLPSOMO	28
03-32-7	Acenaphthylene	5.01	ug/L	5.0	10/16/07	10/18/07	CLP SOM01	2 B
08 96 7	Acetonhenone	5.0 U	ug/L	5.0 5.0	10/16/07	10/18/07	CI P SOM01	2 8
120-12-7	Anthracene	50 U	ug/l.	50	10/16/07	10/18/07	CLP SOM01	.2 B
1912-24-9	Atrazine	5.0 U	up/Lt 7t Set	5:0	10/16/07	10/18/07/	CLP SOM01	2 B

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C074201 FINAL

12/21/07 10:44



Semi Volatile Organics

Lab ID: <u>C074201-04</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Go $\mathcal{RP} - \mathcal{O}\mathcal{MW} - \mathcal{O}\mathcal{Z}$

Sample ID: <u>RP-MW-02</u>

Station ID:

Date Collected: 10/9/07 15:01

Contract Lab Case: 36903 **MD No: 46W7 BONNER** D No: 46W7 SHEALY

- Date Cone	cieu: 10/2/01 leioi						
CAS Number	Analyte	Results Qualifiers	Unics	Sec.MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 U ⁴	ug/L	5.0	10/16/07 -	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0 U,'R, QS-4	ug/L 🦯	5.0	10/16/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0 U, R, QS-4	¢⊯⊪ug/L	• 5.0	10/16/07	10/18/07	CLP SOM01.2.B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
111-91-1 ₂₄	Bis(2-chloroethoxy)methane	5.0 U. ig	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0/U a		5.0	10/16/07	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U .	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0 U.Z.	ki ug∕L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP \$OM01.2 B
218-01-9	Chrysene	5.0.0	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0 U	ug/L	5.0	\$10/16/07	10/18/07	CLPSOM012 B
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0 U	ug/L	<u>.</u>	10/16/07	10/18/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0, U, J, QC-1			10/16/07	_]0/18/0 7	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0 🗁		5.0 Single Singl	10/16/07	∴10/18/07 ×	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
87-68-3 rates	Hexachlorobutadiene	5.0 ⊍.	·, − ug/L		10/16/07	. 10/18/07 .	CLP.SOM01-2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
67-72-1-	Hexachloroethane	5.0.U.a 🔭	τ, ug/L ····	5.0	-10/16/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1.2,3-cd) pyrene	5.0 U, R, QS-4	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
78-59-1-	Isophorone	5.0.⊍/,	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0	10/16/07	10/18/07	CLP SOM01.2 B
98-95-3_	Nitrobenzene	5.0 U ²	ug/L 2%	5.0	10/16/07	10/18/07	CLP SOM01.2 B

5.0 U

ug/L

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621-64-7

C074201 FINAL

n-Nitroso di-n-Propylamine

10/18/07 CLP SOM01.2 B

10/16/07

5.0



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Go RP-0NW-02 au

Lab ID: <u>C074201-04</u>

Contract Lab Case: 36903 MD No: 46W7 BONNER D No: 46W7 SHEALY

Station ID:

Matrix: Groundwater

Date Collected: 10/9/07 15:01

Sample ID: <u>RP-MW-02</u>

CAS Number, 45	Analyte	Results	Qualifiers	Unis	MRL [#]	Prepared	Analyzed	Method	
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	.5.0	U		5:0	10/16/07	10/18/07 _{(**}	CLP SO	M01.2 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	10/16/07	10/18/07	CLP SO	401.2 B
85-01-8.	Phenanthrene	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SO	401-2 ¹ B
108-95-2	Phenol	5.0	U	ug/L	5.0	10/16/07	10/18/07	CLP SO	M01.2 B
129-00-0	Pyrene	5.0	U	, ug/L	5.0,	10/16/07	-10/18/07	CLP SO	M01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-DS-01</u>

Station ID:

Lab ID: <u>C074201-05</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T2 BONNER D No: 46T2 SHEALY

Date Collected: 10/11/07 13:15

CAS						107007-000 107007-000		
Number,	Analyte		Results? Qualifie	Chils	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol		5.0 U	ue/L	5:0 °	10/17/07	10/24/07	CLP SOM01 2 B
92-52-4	I,I-Biphenyl		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-94-3	1.2,4,5-Tetrachlorobenzene		₹. ⁷ 5:0`U	2-1 ug/L	<u></u>	10/17/07	10/24/07	CLP SOM012 B
58-90-2	2,3,4,6-Tetrachlorophenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-95-4	2.4,5-Trichlorophenol		5.0 U	ug/L	5.0	10/17/07	/10/24/07	CLP SOM01 2 B
88-06-2	2,4,6-Trichlorophenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120-83-2	2:44Dichlorophenol	a second second	3. 15 !0 U	Nic ug/L25	5:0	10/17/07	10/24/07	CLP SOM01.2.B
105-67-9	2,4-Dimethylphenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
51-28-5	2.4-Dinitrophenol		10 U	ug/L	10	-10/17/07	10/24/07	CLP SOM01 2 B
121-14-2	2,4-Dinitrotoluene		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene		5.0 世界。	ug/L ¹	5.0	10/17/07	10/24/07	CLP SOM012 B
91-58-7	2-Chloronaphthalene		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
95-57-8,	2-Chlorophenol	<u>a fi</u>	<u>5.0 U</u>	ug/L	5:0	\$10/17/07	10/24/07	CLP SOM01 2 B
534-52-1	2-Methyl-4,6-dinitrophenol		10 U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene		∼5.0 U. 11	ug/L	5.0	10/17/07	10/24/07	CLP SOM012B
95-48-7	2-Methylphenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline		10 U	ug/Liv	10	10/17/07	10/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	- -	5.0 U	≝ug/C ≦	5.0	10/17/07	10/24/07	CLP SOM01 2 B
99-09-2	3-Nitroaniline		10 U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether		, 5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM012 B
59-50-7	4-Chloro-3-methylphenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
106-47-8	4-Chioroaniine		5.0,U	ug/L	- 0°-	10/17/07	10/24/07	CLP SOMULT B
7005-72-3	4-Chloropnenyl pnenyl ether		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOMULZ B
100-01-6	4-Nitronhonol	and the second	10 U	ug/Community	10	10/17/07	10/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol		10 U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
83-32-9	Acenaphulene	and the second	50 U	ug/L	5.0	10/17/07	10/24/07	CLP SOMOL2 B
200-90-8	Acetonhenone		3.0 U	ug/L	5.0 285 00	10/17/07	10/24/07	CLP SOMOLOB
120-12-7	Anthracene	100400.TH	5011	ug/L	5 O	10/17/07	10/24/07	CLP SOM012 B
1912-24-9	Atrazine		501	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

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Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-DS-01</u>

Station ID:

Lab ID: <u>C074201-05</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T2 BONNER D No: 46T2 SHEALY

Date Collected: 10/11/07 13:15

CAS					Qasal (*)		
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 U, J; QS-3	ug/L	5.0	(10/17/07	10/24/07	CLP SOM01-2 B
50-32-8	Benzo(a)pyrene	5.0 U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2:	Benzo(b)fluoranthene	5.0 (U, J, QS-3)	et a ug/L en S	5.03	10/17/07	10/24/07	CLP SOM01-2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, J, QS-3,	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
		QC-2					
207-08-9	Benzo(k)fluoranthene	. 영상 5.0 U, J, QS-3	ug/L 😪	5.0	10/17/07	10/24/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	. 5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 U	///www.ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	hp5.0 U	Sitter ug/L:	5.0	10/17/07	10/24/07-	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	50 U	ug/L at a	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9 er	Chrysene A A - 1	5.0 U, J, QS-3.	ug/L	5.0.4	10/17/07	10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, J, QS-3,	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
		QC-2					
132-64-9	Dibenzofuran - 2	5.0 U. to	ug/L	₩ 5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U	· ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-3	*Dimethyl phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	50-UL	istation ug/L it 1	5.00	si10/17/07	10/24/07	CLP SOM012 B
206-44-0	Fluoranthene	5.0 U, J, QS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0 Ŭ	ug/L	5,0	10/17/07	10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene A-	50 ⊍	ug/L - 0	5.0	10/17/07	10/24/07	CLP SOM012 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U, J, QC-2	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0 U	eggin ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U J OS-3	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
	· · · · · · ·	QC-2	2				
78-59-1	Isophorone	5.0 U.	ug/L	5.0	10/17/07	10/24/07	CLP SOM01 2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co-

Sample ID: <u>RP-DS-01</u>

Station ID:

Lab ID: <u>C074201-05</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T2 BONNER D No: 46T2 SHEALY

Date Collected: 10/11/07 13:15

CAS				The USE		
Number	Analyte		the Units	MRL Prepared	Anahized	Methody,
98-95-3	Nitrobenzene	5.0 U		5.0 10/17/07	10/24/07#	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U	ug/L	5.0 10/17/07	10/24/07	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0_U (Ri	ug/L	5.0 10/17/07	10/24/07	CLP.SOM01.2 B
87-86-5	Pentachlorophenol	10 U	ug/L	10 10/17/07	10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene Art	5.0 U	e ug/L.	5.0 10/17/07	10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0 U	ug/L	5.0 10/17/07	10/24/07	CLP SOM01.2 B
129-00-0:52	Pyrene	5.0,U, J, QS-3	ug/L	5.0 10/17/07	10/24/07	CLP SOM01.2 B
Tentatively Id	entified Compounds:	-				
60-57-1	Dieldrin	- 8 NJ, CLP15	ug/L	10/17/07	10/24/07	CLP SOM01.2 B
789-02-6	o,p-DDT	9 NJ, CLP15	ug/L	10/17/07	10/24/07	CLP SOM01.2 B
78-48-8	S.S.S-Tributyl phosphorotrithioate	5 NJ, CLP15	ug/L	10/17/07	10/24/07	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	60 J, CLP15	ug/L	10/17/07	10/24/07	CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u>

Station ID:

Lab ID: C074201-07

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T9 BONNER D No: 46T9 SHEALY

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Besuits Qualifiers	Ilaite	MDI D	
			Allar Alla MA		Analyzeu meinow
1319-77-3	(3-and/or 4-)Methylphenol	5.0 (U) (s	ug/L FIC '	5.0 10/17/07	10/24/07. CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5:0 U 24a	ug/L	5.0	10/24/07 CLP,SOM01-2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
95-95-4	274;5-Trichlorophenol	×,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ug/L	5.0 34 10/17/07	10/24/07 CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U	ug/L	5.0 · 10/17/07	7 10/24/07 CLP SOM01.2 B
120-83-27	2.4-Dichlorophenol	5.0 U	R	5.0 (0/17/07	1 410/24/07 CLP SOM01 2 B
105-67 - 9	2,4-Dimethylphenol	5.0 U	ug/L	5.0 10/17/07	7 10/24/07 CLP SOM01.2 B
51-28-5	2.4-Dinitrophenol	· · · · · 10.⊍i	ug/L	10 10/17/07	10/24/07 CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U	ug/L	5.0 10/17/07	/ 10/24/07 CLP SOM01.2 B
606-20-2	2.6 Dinitrotoluene	5.0 U.,	with ug/Lan at the	5.0.12 10/17/07	10/24/07, CLP SOM01:2 B
91-58-7	2-Chloronaphthalene	5.0 U	ug/L	5.0 10/17/07	/ 10/24/07 CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U	ug/L	10 10/17/07	/ 10/24/07 CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U	ug/L	5.0 10/17/07	7 10/24/07 CLP SOM01-2 B
95-48-7	2-Methylphenol	5.0 U	ug/L	5.0 10/17/07	7 10/24/07 CLP SOM01.2 B
88-74-4	2-Nitroanline 94-	з, «С.З., 10.Uµ ₂ ,	ug/L	10 10/17/07	10/24/07 CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0 U	ug/L	5.0 10/17/07	/ 10/24/07 CLP SOM01.2 B
91-94-1	3.3=Dichlorobenzidine	50 U	ug/L	S.U 10/17/07	10/24/07 CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U	ug/L	10 10/17/07	/ 10/24/07 CLP SOM01.2 B
101=55-3	4-Bromopnenyi pnenyi ener	50 U	Jug/L Jug/L	5.0	
59-50-7	4-Chioro-3-methylphenor	5.0 U	ug/L	5.0 10/17/07	7 10/24/07 CLP SOM01.2 B
7005 72 3	4-Chlorophanul phanul athor	5.0 U	ug/L	5.0 10/17/0	10/24/07 CLP SOM01.2 B
1003-72-3	4-Chlorophenyr phenyr ener	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01-2 B
100-01-05	4-Nitrophenol		ug/l	10 10/17/0	7 10/24/07 CLP SOM01.2 B
92 22:0	Acenantitizae	10 U	ug/L	5.0 3810/17/02	7 10/24/07 CLP SOM01 2 B
208-96-8	Acenaphthylene	50.0	н ь, пр и	5.0 10/17/0	7 10/24/07 CLP SOM01.2 B
08-86-7	Acetophenane	5.0 U	ug/l	5.0 10/17/0	7 10/24/07 CLP SOM01.2 B
120-12-7	Anthracene	5.0 U	ug/L	5.0 10/17/0	7 10/24/07 CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U 3	ug/L	5.0 x-10/17/01	7



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u>

Station ID:

Lab ID: <u>C074201-07</u>

Matrix: Groundwater

MD No: 46T9 BONNER D No: 46T9 SHEALY

Contract Lab Case: 36903

Date Collected: 10/11/07 11:07

CAS			1941. I. S. S.				Alex .
Number	Analyte	Results Q	ualifiers Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 U	Strug/L	5.0.	10/17/07	10/24/07	CLP SOM01-2 B
50-32-8	Benzo(a)pyrene	5.0 U,	J, QS-3 ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	2: SIO U,	J, QS=3 ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U,	, J, QS-3, ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
		Q	C-2				
207-08-9	Benzo(k)fluoranthene		J, QS-3 💭 🖓 üg/L 🤅	5.0	10/17/07	10/24/07	CLP SOM01'2 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 U	≃ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	. 5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U	ug/L	510	10/17/07	10/24/07	CLP SOM01-2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	25 ÷ 5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2,B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9	Chrysene	14 5.0 U	ug/L	5.0,	10/17/07	10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U,	, J, QS-3, ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
		Q	C -2				
132-64-945	Dibenzoturan	5.0 U	ug/L	5.0,	10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-320	Dimethyl phthalate	95 8.4 5.0 U	ug/L	5:0	10/17/07	10/24/07.	CLP SOM012 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0 U	ug/L	, 5.0		,10/24/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene 2012	.i	ug/L'	av *** 5:0	10/17/07	. 10/24/07	CLP SOM012 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U,	, J, QC-2 ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5:0 U	- ug/L+	5:0	10/17/07	10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U,	, J, QS-3, ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
		Q	C-2	· · · · · · · · · · · · · · · · · · ·			
78-59-1	Isophorone	5.0 ⊍	ug/L		10/17/07	10/24/07	CLP SUM01.2 Betr
191-20-3	Naphthalene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B

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C074201 FINAL


Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u>

Station 1D:

Lab ID: <u>C074201-07</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T9 BONNER D No: 46T9 SHEALY

Date Collected: 10/11/07 11:07

CAS						
Number	Analyte	Results Qualifiers	Units ,	MRL Prep	ared Analyzed	Method
98-95-3	Nitrobenzene	5.0 U 😒 👘	ug/L	ی 5.0 io/i	7/07= 10/24/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U	ug/L	5.0 10/1	7/07 10/24/07	CLP SOM01.2 B
122-39-4	-Nitrosodiphenylamine/Diphenylämine	5.0.U	ug/L	5.0 10/1	7/07 10/24/07	CLP SOM01 2 B
87-86-5	Pentachlorophenol	10 U	ug/L	10 10/1	7/07 10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene **	5.0 U	ug/L	5.0%*10/1	7/07/ 10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0 U	ug/L	5.0 10/1	7/07 10/24/07	CLP SOM01.2 B
129-00-0	dr. Pyrene	5.0 U	ug/L	5:01 10/1	7/07 01/24/07	CLP SOM012 B
Tentativ	vely Identified Compounds:					
R4-0000	Tentatively Identified Compounds	5 U	ug/L.	5 10/1	7/07 10/24/07	CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Sample ID: <u>RP-TW-09</u> Station ID:

Lab ID: C074201-08 Matrix: Groundwater

Date Collected: 10/11/07 7:50 CAS THE

CAS Number!	Analyte Analyte		Results Qualifiers	Units	MRL	Prepared	Analyzed	Arthod Arts
1319-77-3	(3-and/or 4-)Methylphenol		5.0 U 🖓 🚟 👘	ug/L	<u>\$5.0</u>	10/17/07	10/24/07	CLPSOM01.2 B7
92-52-4	I,I-Bipnenyi		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOMULZ B
95-94-3	2.3.4.6 Tetrachlorophanal	<u></u>	5.01U	ug/L	5.0	10/17/07	10/24/07	CLPSOM012 B
58-90-2	2,5,4,0-Terachiorophenoi		5.0 U	ug/L	5.0 510	10/1//07	10/24/07	CLP SOMOL2 B
93+93-4	2.4.6. Trichlorophenol		50.0	ug/L ar	5.0	10/17/07	10/24/07	CLP SOM01.2 B
120 91 2	2,4,0- Inchlorophenol	- 74-14-14 	3.0 U	ug/L	5.0	10/17/07	10/24/07	CUP SOMOL 2 B
105 67 9	2.4-Dientorophenol		50.0	ug/I	5.0	10/17/07	10/24/07	CLP SOM01 2 B
51-28.5	24-Dinitrophenol			ug/L	3 E10	10/17/07	10/24/07	CLP.SOM01 2 B
121-14-2	2 4-Dinitrotoluene		50.0	ug/L ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
606-20-2	2.6-Dinitrotoluene	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	5.0 0	ug/L	275.0	10/17/07	10/24/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	ANKEL AND	50 U	ue/L	5.0	10/17/07	10/24/07	CLP SOM01,2 B
95-57-8	2-Chlorophenol		S O U	ug/L	5:0	10/17/07	10/24/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol		10 U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	elfin .	5.0 Ŭ	, ug/L	5.0	10/17/07	10/24/07	CLP.SOM01.2 B
95-48-7	2-Methylphenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	······································	10 U	ug/L	31 0	10/17/07	10/24/07	CLP SOM01.2 B
88-75-5	2-Nitrophenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
91-94-1.	3,3'-Dichlorobenzidine		[™]	al, ug/b	⊳ ≉5:0.	10/17/07		CLP SOM01 2 B)
99-09-2	3-Nitroaniline		10 U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether		S.O.U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline		5.0 U 🖏	st ug/L	5.0	Ø10/17/07	10/24/07	CLP.SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	44	10 [.] U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol		10 U	ug/L	10	10/17/07	10/24/07	CLP SOM01.2 B
83-32-9	Acenaphthene		5:0 U	ug/L * 🛃	35.0 °	10/17/07	10/24/07	CLP SOM01.2 B
208-96-8	Acenaphthylene		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
98-86-2	Acetophenone			ug/L	÷5.0	10/17/07	10/24/07	CLP SOM01 2 B
120-12-7	Anthracene		5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
1912-24-9	Atrazine		50 U	ug/L	5.0		10/24/07	CLP SOM01 2 Bas

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Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-09</u>

Station ID:

Lab ID: <u>C074201-08</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Date Collected: 10/11/07 7:50

CAS	ie. <u>19</u> . – 194.,		The second	5 8 .		. Alexandre	and the second sec
Number	Analyte	Results Qu	alifiers Units	MRL	Prepared	Anatyzed	Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene		J, QS -3	- 5.0		10/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U,.	J, QS-3 ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0 U,	J, QS-3	5.0	10/17/07	10/24/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, .	J, QS-3, ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
		QC	-2				01 0 00 001 2 0
207-08-9	Benzo(k)Huoranthene	5.0 U,.	J, QS-3ug/L	5.0	10/17/07	10/24/07	CLP SQM01.2 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.U	10/17/07	10/24/07	CLP SOMULZ B
111-91-1	Bis(2-chloroethoxy)methane		A)	5.0	~*********	10/24/07	CLP SOMULZ B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOMUL2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U	ug/L	5.0	~10/17/07	10/24/07	CLP SOMUL2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOMULZ B
105-60-2	Caprolactam		ug/L	5.0	10/17/07	10/24/07	CLP SOMULZ B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
218-01-9	Currysene - Trout	τις 10.	J. QS-3 w-1, ug/L	5.0 Starting 1950	10/17/07	10/24/07	CLP SOMOL2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, .	J, QS-3, ug/L	5.0	10/17/07	10/24/07	CLP SOMULZ B
132-64-9	Dibenzofuran	VC 3501	2 ug/L		10/17/07	10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0 U	Marcug/L	F-03* 5.0	10/17/07	10/24/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	500	L ug/L	5.0	910/17/07	10/24/07	CLP.SOM01.2 B
206-44-0	Fluoranthene	5.0 U,	J, QS-3 ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0 U	,	5.0	10/17/07	10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene		ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCC	P) 5.0 U,	J, QC-2 ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0.U	ug/L	 	<u></u> ≨10/17/07	10/24/07*	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U,	J, QS-3, ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B
	·	QC	-2	-			
78-59-1.	Isophorone and a sub-	1-5:0 U	ug/L		10/17/07	10/24/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-09</u>

Station ID:

Lab ID: <u>C074201-08</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Date Collected: 10/11/07 7:50

CAS						States Mark
Number	Analyte	Results Qualifiers	Units	MRL PI	epared Analyzei	i Method
98-95-3	Nitrobenzene	5:0.U	°, ug/L	5.0 1	0/17/07 10/24/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U	ug/L	5.0 1	0/17/07 10/24/07	CLP SOM01.2 B
122-39-4		50.0 €	⊂ ug/L iš	···· 5:0 1	0/17/07 10/24/07	CLP SOM01/2 B
87-86-5	Pentachlorophenol	10 U	ug/L	10 1	0/17/07 10/24/07	CLP SOM01.2 B
85-01-8	Phenanthrene	50 U	ug/L	5.0 1	0/17/07 10/24/07	CLP SOM01.2 B
108-95-2	Phenol	5.0 U	ug/L	5.0 1	0/17/07 10/24/07	CLP SOM01.2 B
129-00-0	Pyrene.	5.0 U, J, QS-3	ug/L	5.0 1	0/17/07 10/24/07	CLP SOM01-2 B
Tentativel	y Identified Compounds:	· .				
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5 1	0/17/07 10/24/07	CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station ID:

Lab ID: <u>C074201-10</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W1 BONNER D No: 46W1 SHEALY

Date Colle	cted:	10/10/07	15:32
STREET & THE	一次网络约		C.C. 44 (1997) 110

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method	
1319-77-3	(3-and/or 4-)Methylphenol	<u>π</u> κ. ≥	, jug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B. S.
92-52-4	1,1-Biphenyl	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	12B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	I.2 B
95-95 <u>-</u> 4	24,5-Trichlorophenol	5.0 U	, Jug/L	\$5.0	10/17/07	10/24/07	CLP SOM0	1.2.B
88-06-2	2,4,6-Trichlorophenol	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
120-83-2	2.4-Dichlorophenol	5.0 U	ug/L	5.0 ⊲	10/17/07	10/24/07	CLP SOM0	1.2 B
105-67-9	2,4-Dimethylphenol	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1,2 B
51-28-5 (u)	2,4-Dinitrophenol	25. · · · · · · · · · · · · · · · · · · ·	sking/L	ee 10	10/17/07	+ 10/2 4/0 7	CLP SOM0	1 2 B
121-14-2	2,4-Dinitrotoluene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
606-20-2	2.6-Dinitrotoluene	5.0 U		5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
91-58-7	2-Chloronaphthalene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
95-57-8	2-Chlorophenol	5.0 U	to sug∕L	5.0	10/17/07	⁴ 10/24/07	CLP SOM0	12B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U	ug/L	10	10/17/07	10/24/07	CLP SOM0	1.2 B
91-57-6	2-Methylnaphthalene	5.0 U	ug/L	: 5.0	10/17/07	10/24/07	CLP SOM0	1.2.B
95-48-7	2-Methylphenol	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
88-74-4	2-Nitroaniline	1	ug/L i	<u>, 10 </u>	10/17/07:	10/24/07	CLP SOM0	1.2 B
88-75-5	2-Nitrophenol	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
91-94-1	3,3'-Dichlorobenzidine	, , ≓in , , , , , 5.0 U , , , , 5£	ug/Lar	5.0	10/17/07	10/24/07	CLP.SOM0	1.2 B
99-09-2	3-Nitroaniline	10 U	ug/L	10	10/17/07	10/24/07	CLP SOM0	1.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0 U . S	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	12B
59-50-7	4-Chloro-3-methylphenol	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
106-47-8	4-Chloroaniline	5.0.U S ³	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	12Ba
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
100-01-6	4-Nitroaniline	*• <u>10</u> U	ug/L	t <u>a</u> ≂.10	10/17/07	10/24/07	CLP SOM0	12B
100-02-7	4-Nitrophenol	10 U	ug/L	10	10/17/07	10/24/07	CLP SOM0	1.2 B
83-32-9	Acenaphthene	5.0 U	⊴y, ug∕L	5:0	10/17/07	10/24/07-	CLP SOM0	1.2 B
208-96-8	Acenaphthylene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
98-86-2	Acetophenone	5.0.U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
120-12-7	Anthracene	5.0 U	ug/L	5.0	10/17/07	10/24/07	CLP SOM0	1.2 B
1912-24-9*	Atrazine	5.0 U	Fug/L!	-7.5.0	10/17/07	10/24/07	CLP SOM0	12B

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Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station ID:

Lab ID: <u>C074201-10</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W1 BONNER D No: 46W1 SHEALY

Date Collected: 10/10/07 15:32

CAS	States and the second				ALL STREET	A there are a state
Number	Analyte -	Results Qualifiers	Units	MRL Pre	oured Analyzed	I Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 UK	a; ug/L ₽	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U, J, QS-3	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5:0+U, J, QS-3	a jp? at ug/L	5.0 10/	17/07 10/24/07	CLP.SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, J, QS-3,	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
		QC-2				
207-08-9	Benzo(k)fluoranthene	5.0 U, J, QS-3	ug/L	5.0 10/	17/07 10/24/07	CLP.SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 Upr	liĝin ug∕L _{∕n} a	5.0 10/	17/07 10/24/07	CEPSOM012B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U	des ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
105-60-2	Caprolactam	5.0 ∪ 3	and the state of	<.s. 5.0 10/	17/07 10/24/07	CLP SOM012 B
86-74-8	Carbazole	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, J, QS-3,	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
		QC-2				
132-64-9	Dibenzofuran	5.0U	, if ug/L	\$5.0 ×10/	17/07 10/24/07	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0,U_2	×γ _{r ((} ug/L → −)	5.0 10/	17/07	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0.世	ll/f/_ug/L_isi	5:0 10/	17/07 10/24/07	CLP.SOM01.2 B
206-44-0	Fluoranthene	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
86-73-7	Fluorene 4	5.0 U	ug/L	.5.0 10/	17/07 10/24/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5:0 U	ug/L	5.0 10	17/07 10/24/07	CLP.SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U, J, QC-2	ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
67-72-1	Hexachloroethane		ug/L	5.0 10/	17/07 10/24/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U, J, QS-3,	ug/L	5.0 10/	/17/07 10/24/07	CLP SOM01.2 B
1		QC-2				·····
78-59-1	Isophorone.	5.0 U	ug/L	5.0 10	17/07 10/24/07	GLP SOM01.2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0 10/	/17/07 10/24/07	CLP SOM01.2 B

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Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station ID:

Lab ID: <u>C074201-10</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46W1 BONNER D No: 46W1 SHEALY

Date Collected: 10/10/07 15:32

CAS			776		
Number	Analyte	Results Qualiflers	Units	MRL Prepared	Analyzed Method
98-95-3,	Nitrobenzene		ug/L	5.0 10/17/07	10/24/07 CLP.SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamin	e 5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
87-86-5	Pentachlorophenol	10 U	ug/L	10 10/17/07	10/24/07 CLP SOM01.2 B
85-01-8	Phenanthrene	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
108-95-2	Phenol	5.0 U	ug/L	5.0 10/17/07	10/24/07 CLP SOM01.2 B
129-00-0	Pyrene	5.0 U	ug/L	5:0 10/17/07	10/24/07 CLP SOM01/2 B
Tentatively	/ Identified Compounds:				
R4-0000	Tentatively, Identified Compounds	5 U	ug/L	5 10/17/07	10/24/07 CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-RB-01</u>

Station ID:

Lab ID: C074201-13

Matrix: Equipment Rinse Blank

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

Date Collected: 10/8/07 16:30

CAS					- Alexan	argan.
Number	Analyte day	Results Qualifiers	Units	MRL	Prepared An	alyzed Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0 U.	ug/L	∰ ⊀ -5,0⊘	10/15/07 10	/18/07 CLP SOM01 2 B
92-52-4	1,1-Biphenyl	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
95-94-3	1.2.4.5-Tetrachlorobenzene	5.0 Uat	ug/L	5.0	10/15/07 10	/18/07 CLP.SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U	ug/L	5.0	10/15/07/44 10	/18/07 ··· CLP SOM01.2 B *****
88-06-2	2,4,6-Trichlorophenol	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0 U	, Sea_ug∕L	s.e., 5.0	10/15/07 10	/18/07 CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	0	ug/L	10	10/15/07 10	/18/07 CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
606-20-2	2.6-Dinitrotoluene	5.0,⊍	ug/L w	§ 5.0	10/15/07 10	/18/07 CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0 U	∴£_ ug/L	5.0	10/15/07 10	/18/07 CLP SOM01 2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U	ug/L	10	10/15/07 10	/18/07 CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0 U -	ti¥ ug/L	<u>م</u> ج	10/15/07, 10	18/07 CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U.S.	, signi ug∕L	S. 10	10/15/07 10	18/07 CLP SOM01 2 B
88-75-5	2-Nitrophenol	5.0 U	ug/L	5.0	10/15/07 -10	/18/07 CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0_U, J, QC-2	ug/L	5.0	10/15/07/2: 10	/18/07 CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U	ug/L	10	10/15/07 10	/18/07 CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	S.0 U	v¶ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U·	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U	ug/L	<u>5.0</u>	10/15/07, 10	/18/07 CLP SOM01 2 B
7005-72-3	4-Chlorophenyl phenyl ether	· 5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
100-01-62	4-Nitroanilme	10.0	aga∵ug/L	· 10	+10/15/07 + 10	/18/07 CLP.SOM01.2 B:
100-02-7	4-Nitrophenol	10 U	ug/L	10	10/15/07 10	/18/07 CLP SOM01.2 B
83-32-9	Acenaphthene	5.0.UP#	ug/L	5.0	10/15/07	/18/07 CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
98-86-2 4	Acetophenone	5:0:UA	ug/L	5:0	10/15/07	/18/07 CEP SOMULZ B
120-12-7	Anthracene	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B
1912-24-9	Atrazine	5.0 U	ug/L	5.0	10/15/07 10	/18/07 CLP SOM01.2 B

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C074201 FINAL

12/21/07 10:44



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-RB-01</u>

Station ID:

Lab ID: <u>C074201-13</u>

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

Matrix: Equipment Rinse Blank

Date Collected:	10/ 8 /07	16:30	
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CAS	ine des des des	in the second seco		a and a start of the	T. Ask.		
Number	Analyle States and States	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0 Uu 🐑	ug/L	5.0) 210/15/07	10/18/07	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	4 in (5.0 Ut Mag	ug/L	×⊽ 5:0) 10/15/07.	10/18/07	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 U	₩ug/L	5.0		10/18/07	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0 U tu	,ug/L	5.0) 10/15/074	10/18/07	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	510-U-	ug/L	5!0) 10/15/07.	10/18/07	CEP SOM01-2 B
86-74-8	Carbazole	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene	5.0 U	Sug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5:0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0 U	l'úğ/L	5.0) 10/15/07	10/18/07	CLP SOM01:2 B
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0 U 🔅	∼a ug/L		10/15/07	10/18/07	CLP.SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	-5:0;U, J, QC-1	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	ju 5.0 U	ug/L	5.0) :: 10/15/07	÷ 10/18/07	CLP SOM012 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
78-59-1	Isophorone	5.0 U	s, sug/L	5.0) . 10/15/07	. 10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzenex	101 (510) U. S. S.	-w.s. ug/L	<u>5</u>) 10/15/07.	10/18/07	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	50 U	ug/L	5.0) 10/15/07	10/18/07	CLP SOM01,2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

Sample ID: <u>RP-RB-01</u> Station ID: Lab ID: <u>C074201-13</u> Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS Number	Analyte	- Results Qualifiers	Units	MRL: P	repared . Analyzed	Method
122-39-4	n-Nitrosodiphenylamine/Dipheny	ylamine - Signa 5.0 U	i≝i?‴⊔ug/L	⊖\$*\$5 <u>1</u> 0 - 1	0/15/07 10/18/07	CLP SOM012 B
87-86-5	Pentachlorophenol	10 U	ug/L	10 i	0/15/07 10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0 U	ug/L	5:0 1	0/15/07 10/18/07	CLP SOM01.2 B
108-95-2	Phenol	5.0 U	ug/L	5.0 1	0/15/07 10/18/07	CLP SOM01.2 B
129-00-0	Pyrene	5.0 U.	ug/L	5.0	0/15/07 10/18/07	CLP.SOM01.2 B
Tentatively	Identified Compounds:					
R4-0000	Tentatively Identified Compound	ls 5 U	ug/L	5 1	0/15/07 10/18/07	CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u>

Station 1D:

Lab ID: <u>C074201-14</u>

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Matrix: Groundwater

17 A741 A.S.

Contract Lab Case: 36903 **MD No: 46T0 BONNER** D No: 46T0 SHEALY

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Date Collected: 10/8/07 16:13 Martin Martin - C. A. B. A. B

CAS Number	Analyte Be	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or,4-)Methylphenol	5.010.	ug/L	S.0	10/15/07	10/18/07	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0.U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01-2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0 U	ug/L	<u>,</u> 5:0	10/15/07	10/18/07	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	50.U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 U., constant	inits ug/L	10	10/15/07 -	-10/18/07	CLP_SOM01.2.B
121-14-2	2,4-Dinitrotoluene	5.0 U, J, QS-3	ug/L	. 5.0	10/15/07	10/18/07	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0 U, J, QS-3	list ug/L − −	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0-Ü2 ₈₉	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10 U	ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	+- 5.0.0	ug/L	5.0	10/15/072	10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10 U	ug/L	<u></u> 10	\$10/15/07 <u>}</u>	¥10/18/07	CLP SOM01 2 B
88-75-5	2-Nitrophenol	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0.U;J,QC-2	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10 U	ug/L	10	10/15/07	10/18/07	CLP SOM01,2 B
101-55-3	4-Bromophenyl phenyl ether	5.01U 21	ug/L	1 ¹ 5.0	10/15/07	10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10.U	₩t. ug/L	10	10/15/07	10/18/07	CLP SOM01 2 B
100-02-7	4-Nitrophenol	10 U	ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	₩ <u>31</u> , 08-3 ₩	L ² fi [®] ug/L	-	10/15/07	10/18/07	CLP SOM01 2 B
120-12-7	Anthracene	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
1912-24-9	Atrazine		vsv⊂ ug/L	× 5.0	10/15/07	10/18/07	CLP.SOM01.2 B

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C074201 FINAL

12/21/07 10:44



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u>

Station ID:

Lab ID: <u>C074201-14</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T0 BONNER D No: 46T0 SHEALY

Date Collected: 10/8/07 16:13

CAS Number 4	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-52-7	Benzaldehyde	5.0 U. J. OS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	50 U 9	* v uz/L	- 5.0	10/15/07	10/18/07	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0 U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0 U, J ² QS-3	ug/L	2 5 0	10/15/07	10/18/07	CLP.SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0 U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene : Hatta	5.0 U, J, QS-3 🐄	y ug/L 🥳	5.0 9	10/15/07	(10/18/07 ⁴	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
111-91-1. ^{1001/10}	Bis(2-chloroethoxy)methane	≭us 5.0 U 1	ug/L	5.0	10/15/07,	10/18/07	CLP SOM01.2 BT
111-44-4	bis(2-Chloroethyl) Ether	5.0. U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	50 U 📲 🖓	ug/L 🙀	5.0°	10/15/07	+ 10/18/07	CLP SOM012 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	:5 <u>!0</u> -U - , "!! : : '∿⊾	_ _{⊥ij} ug/L	\$5.0	10/15/07	10/18/07 ,	CLP SOM01.2 B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
218-01-9	Chrysene (201 Dec. 1988)	5:0.U - 18 - 75	, [ug/L	315:0	-10/15/07	10/18/07	CLP SOM01.2 B SC
53-70-3	Dibenzo(a,h)anthracene	5.0 U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0.U	s, ug/L	3475.0	10/15/07	<u>ي 10/18/07 و</u>	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.U 5.0	10/15/07	10/18/07	CLP SOMUL2 B
131-11-3	Dimethyl phthalate	5.0 U	ug/L	2.200 S	10/15/07	10/18/07	CLP SOMUL2 B
84-74-2	Di-n-butyiphthalate	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octy ipnunalate as a second se	5.0.U, 0, 0; 0C=1 (C	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
200-44-0	Fluorane	SOLL NOT		5.0	10/15/07	10/18/07	CLP SOM012 B
118-74-1	Heyachlorobenzene (HCB)	5010		5 0	10/15/07	10/18/07	CLP SOM01.2 B
87.68.3	Hexachlorobutadiene	50U 12	Sug/I de		10/15/07/1	10/18/07	CLP SOM01 2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	50 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
67-72-11	Hexachloroethane	5:0 U J OS-3	ug/L and	\$5:0	S10/15/07	10/18/07	CLP SOM01 2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
78-59-11	Isophorone State and State and State and State	<u>.</u>	ug/L 🔆	5.0	10/15/07	10/18/07	CLP SOM01.2 Bat
91-20-3	Naphthalene	5.0 U	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzenes R.	5.0.U, J <u>Ş</u> QS-3.	ug/L .	\$5.0	10/15/07	×10/18/07	CLP SOM01 2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U, J, QS-3	ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

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C074201 FINAL

12/21/07 10:44



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u> Station 1D: Lab ID: <u>C074201-14</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T0 BONNER D No: 46T0 SHEALY

Date Collected: 10/8/07 16:13

CAS	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				
Number	Analyte	Results Qualifiers	Units	MRL Prepared	Analyzed Method
122:39-4	a. Nitrosodiphenylamine/Diphenylam	ine 5.0-U-J-QS-3	ug/L	5.0, 10/15/07.	3 10/18/07 CLP SOM01 2 B 51
87-86-5	Pentachlorophenol	10 U	ug/L	10 10/15/07	10/18/07 CLP SOM01.2 B
85-01-8	Phenanthrene	5.0 U	ug/L	5.0 10/15/07	10/18/07 CLP SOM01.2 B
108-95-2	Phenol	5.0 U, J, QS-3	ug/L	5.0 10/15/07	10/18/07 CLP SOM01.2 B
129-00-0	Pyrene	5.0.U*	ug/L	5.0, 10/15/07	10/18/07 =: CLP SOM01 2 B
Tentativ	ely Identified Compounds:				-
R4-6501	Unidentified Compound(s)	300 J, CLP15	ug/L	10/15/07	10/18/07 CLP SOM01.2 B



Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u> Station ID:

Lab ID: <u>C074201-15</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results	Qualifiers Units	MRL	Prepared	Anabzed	Method
1319-77-3	(3-and/or 4-)Methylphenol		U	≓ € 5.0	10/15/07	10/18/07	CUP.SOM01.2 B
92-52-4	I,1-Biphenyl	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-94-3	1;2,4,5-Tetrachlorobenzene	5.0	Uug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
58-90 - 2	2,3,4,6-Tetrachlorophenol	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-95-4	2.4:5-Trichlorophenol	5.0 Start - 5.0	U ug/L		10/15/07	10/18/07	CLP SOM012 B
88-06-2	2,4,6-Trichlorophenol	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U ug/L	- 5.0	10/15/07	10/18/07	CLP.SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10 m 10	U	10	10/15/07	4, 10/18/07)	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
606-20-2	2.6-Dinitrotoluene	5.0	U Standard Jug/L	5.0	10/15/07	-10/18/07/	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
95-57-8	2-Chlorophenol	S.0	U		10/15/07	10/18/07	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	S.O.	U ug/L	5.0	¢بر 10/15/07	4 10/18/07	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U 🥵 👾 🖓 ug/L	• • • • • • • • • • • • • • • • • • • •	10/15/07	10/18/07	CLP SOM01 2 B ***
88-75-5	2-Nitrophenol	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U, J, QC 2	5.0	10/15/07	•10/18/07	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U ug/L	5.0		10/18/07	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
106-47-8	4-Chloroaniline	ja - 5.0	U .pp	5.0	10/15/07	10/18/07	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
100-01-6	4-Nitroaniline	:=#*:; 10	U ug/L	~10	10/15/07	10/18/07	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U ug/L	10	10/15/07	10/18/07	CLP SOM01.2 B
83-32-9	Acenaphthene A Strating	<u>. 1195 - 150</u>	U	5:0	10/15/07	10/18/07	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
98-86-2	Acetophenone	<u>⊊, 5</u> .0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM012 B
120-12-7	Anthracene	5.0	U ug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B
1912-24-9.8	Atrazine	5.0	U Jug/L	5.0	10/15/07	10/18/07	CLP SOM01.2 B

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Semi Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u>

Station 1D:

Lab ID: <u>C074201-15</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Date Collected: 10/8/07 13:00

CAS	N N		and their			
Number	Analyte	Resuns: Qualifiers (199	Units	MRL	repared Ar Analyzed	Method
100-52-7	Benzaldehyde	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5:0,⊍	ug/L-	5:0	10/15/07 10/18/07	- CLP SOM012 B
50-32-8	Benzo(a)pyrene	5.0 U, J, QS-3	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5:0 U, J, QS-3	ŭĝ/L	\$5:0	10/15/07 10/18/07	CLP SOM01.2 Bight
191-24-2	Benzo(g,h,i)perylene	5.0 U, J, QS-3	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
207-08-9	Sel Benzo(k)fluoranthene	5.0 ⁻ U; J, QS-3	ug/L	5.0.5	10/15/07/ 10/18/07	CLP SOM012 B
85-68-7	Benzyl butyl phthalate	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM012 B
111-44-4	bis(2-Chloroethyl) Ether	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) etherite	15'01U# ##18	ug/L	≻ ÷ 1€5:0	10/15/07 10/18/07	CLP SOM01.2 B.
117-81-7	Bis(2-ethylhexyl) phthalate	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
105-60-2	Caprolactam	-50 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
86-74-8	Carbazole	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
218-01-9	Chrysene 14	3. 5.0 U	ug/L	site 5.0	10/15/07 10/18/07	CLP.SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0 U, J, QS-3	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0 U start	ug/L	5.0	10/15/07	ECLP SOM01.2 B :: .
84-66-2	Diethyl phthalate	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0 <u>,U</u> 4.4%	ug/L	5.0	10/15/07 10/18/07	CLP. SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5'0'U, J, QC=1.	/ug/L		10/15/07 10/18/07	CLP, SOM012 B step
206-44-0	Fluoranthene	5.0 U .	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
86-73-7	Fluorene	50 U	ug/L	:5.0	10/15/07, 10/18/07	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0 U.	ug/L	5.0	10/15/07 10/18/07	CLP SOM012 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.010	ug/L	-5.0	10/15/07 10/18/07	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0 U, J, QS-3	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
78-59-1	: Isophorone	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
91-20-3	Naphthalene	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B
98-95-3	Nitrobenzene 200 Till	502Ú	ug/L	5.0**	10/15/07#0 10/18/07	CLP.SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0 U	ug/L	5.0	10/15/07 10/18/07	CLP SOM01.2 B

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Semi Volatile Organics

Lab ID: C074201-15

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Sample ID: <u>RP-TW-08</u> Station ID:

Matrix: Groundwater

Date Collected: 10/8/07 13:00

CAS				terrorite and the second			·····································
Number	Analyte		Results Qu	alifiers Units	MRL Prep	ared Analyzed	Method
122-39-4	n-Nitrosodiph	enylamine/Diphenylamin	e 5.0 U	ug/L	5.0 10/1	5/07 10/18/07	CLP SOM01.2 B
87-86-5	Pentachloroph	nenol	10 U	ug/L	10 10/1	5/07 10/18/07	CLP SOM01.2 B
85-01-8	Phenanthrene	A PROFILE TO	50 U	ue/L	S.O 10/1	5/07 10/18/07	CLP SOM01.2 B
108-95-2	Phenol		5.0 U	ug/L	5.0 10/1	5/07 10/18/07	CLP SOM01.2 B
129-00-0	Pyrene		5.0 U	ug/L	5.0 10/1	5/07 10/18/07*	CLP SOM012B
Tentativ	vely Identified Cor	npounds:			:		
51218-45-	-2 Metolachlor		10 NJ,	CLP15 ug/L	. 10/1	5/07 10/18/07	CLP SOM01.2 B
R4-6501	Unidentified	Compound(s)	100.1 C	1 P15 PW	10/1	5/07,41310/18/07-	CLP SOM01.2 B



December 21, 2007

4SESD-MTSB

MEMORANDUM

SUBJECT:	FINAL Analytical Report
	Project: 08-0029, Red Panther Chemical Co
	Superfund Remedial
FROM:	Charlie Appleby
	Quality Assurance Section Chemist
THRU:	Marilyn Maycock, Chief
	Quality Assurance Section

TO: Donna Webster

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Volatile Organics (VOA) Volatile organic compounds

CLP VOA



Report Narrative for Work Order C074201, Project: 08-0029 Data Review and Validation Report Site Name: Red Panther Chemical, Clarksdale, MS Case No. 36903 ELEMENT Nos. C074201-01 - C074201-20 Sampling Dates: 10/07 - 11/07

Inorganic Analysis: Bonner Analytical Testing Company, Hattiesburg, MS Date Received from Lab: 11/01/07

Analyses conducted: Total metals, mercury, cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of fifteen water samples for Total Metals analysis by ICP-AES and cyanide analysis by SOW ILM05.3, according to the contract Statement of Work and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Further details are provided below.

Examination of blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as five times blank levels to discount possible false positives due to contamination.

ICP-AES Analysis

Negative results with absolute values greater than the contract require quantitation limit were reported for arsenic in the contractor interference check sample solution A (ICSA). The above negatives were suspected of being due to over-correction from the influence of aluminum and/or iron. All positive sample results for arsenic less than 140 ug/L with aluminum and/or iron concentrations in solution greater than 73,000 g/L were considered estimated and flagged "J". All non-detected sample results for arsenic with aluminum and/or iron concentrations in solution greater than 73,000 ug/L were considered unusable and flagged "R".

Matrix spiked sample recoveries for antimony and arsenic were 74 and 52% respectively. All sample results for antimony and arsenic were considered estimated and flagged "J".

Matrix spiked sample recovery for selenium was 72%. All sample results for selenium were considered estimated and flagged "J".

Serial dilution percent differences for potassium, vanadium, and zinc were all outside the control limits of + 10%. All sample results for potassium, vanadium, and zinc were considered estimated and flagged "J".

Percent relative standard deviations were greater than 20% for plasma multiple exposures and reported results were greater than the method detection limit but less than the contract required quantitation limit for iron in



sample C074201-13 and magnesium in sample C074201-13. The above sample results were suspected of being potential false positives and, hence, unusable and flagged "R".

Organic Analysis: Shealy Environmental, West Columbia, SC

The ESAT Work Team reviewed data for eighteen water samples analyzed for volatiles, semivolatile extractables, aroclors, and pesticides, per CLP statement of work SOM01.2. The samples were received by the laboratory between 10/10/07 and 10/12/07, and the data package was received on 11/05/07 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The laboratory satisfied all technical and contractual analysis and extraction holding time requirements. The data package presents acceptable contractual and technical performance with qualifications.

The laboratory scored within warning limits for all spiked compounds in the water volatile PES except for 1,2,3-trichlorobenzene which was scored as action low and 4-methyl-2-pentanone and 1,4-dioxane which were both scored as warning low. Also the laboratory reported the presence of both methylene chloride and trichloroethene which were both scored as PES contaminants at less than the CRQL. The laboratory did not analyze this PES concurrently with the actual field samples, and it was not used to qualify data.

Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency. All results associated with the volatile DMC 1,2-dichloropropane-d6, which had a low recovery, were "J" qualified in sample C074201-03 (D46W6). Low semivolatile extractable DMC recoveries were observed in samples C074201-14 (D46T0), C074201-15 (D46T1), C074201-03 (D46W6), C074201-04 (D46W7), C074201-05 (D46T2), C074201-07 (D46T9), C074201-08 (D46W4), and C074201-10(D46W1). All analytes associated with these DMCs were "J" qualified unless the DMC recovery was less than 10% ("R" qualified).

All pesticide surrogate recoveries (<10% for decachlorobiphenyl) were low in sample C074201-02 (D46W2) for both the original analysis and the reextraction. All positive pesticide results were "J" qualified and all nondetected pesticide results were "R" qualified in this sample. Low decachlorobiphenyl recoveries were reported for samples C074201-03 (D46W6), C074201-05 (D46T2), C074201-06 (D46T8), C074201-09 (D46W0), C074201-11 (D46W3), C074201-14 (D46T0), and C074201-15 (D46T1). The laboratory reextracted all of these samples outside technical holding time limits, except for C074201-05 (D46T2) due to insufficient sample volume remaining, because the associated method blank (PBLK14) also had low decachlorobiphenyl recovery. Similar recoveries were reported for the reextractions. All positive results and all nondetect pesticide results were "J" qualified whenever these low recoveries exceeded 10% in these seven samples. Nondetect results were "R" qualified whenever surrogate recoveries were less than 10%.

All aroclor results were "J" qualified in samples C074201-08 (D46W4), C074201-14 (D46T0) and C074201-15 (D46T1) due to low recoveries for the surrogate decachlorobiphenyl. All aroclor results were "R" qualified in sample C074201-05 (D46T2) due to decachlorobiphenyl recoveries of less than 10%. The SOW does not require



any corrective action so long as one aroclor surrogate recovery is acceptable.

The native sample (unspiked C074201-15/D46T1) pesticide chromatogram did not resemble those for the MS or MSD. For example, the beta-BHC which was not spiked was reported as "0.050 ug/l U" in the native sample but as 7.3 and 6.8 ug/l in the MS and MSD respectively. The chromatograms for the aroclor fraction of the same sample (both native and MS/MSD) appeared to be more consistent with a high BHC result. However, a definitive conclusion can not be made because the laboratory used different columns than those used for pesticides. Upon discussions with the site's Project Manager and laboratory personnel it was determined that these water samples had unusually large amounts of particulates present and it was plausible that sample non-homogeneity could be the source of these differences. However, the reviewer could not rule out the possibility of samples being crossed in the field or at the laboratory. Effects due to possible sample non-homogeneity were not apparent in the volatile or semivolatile analyses. Therefore, all groundwater pesticide results were "J" qualified.

The volatile analyte 1,4-dioxane responded poorly (RRF < 0.0050) in an ending calibration check standard. All associated sample results were "R" qualified.

Two volatile and six semivolatile extractable compounds exhibited erratic continuing calibration performance necessitating that all associated results be "J" qualified.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



L.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region 4 Science and Ecosystem Support Division 980 College Station Road, Athens, Georgia 30605-2700 D.A.R.T. Id: 08-0029

SAMPLES INCLUDED IN THIS REPORT

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected	Date Received
RP-MW-01	C074201-03	46W6	46W6	Groundwater	10/9/07 15:01	10/12/07 14:42
RP-MW-02	C074201-04	46W7	46W7	Groundwater	. 10/9/07 15:01	10/12/07 14:42
RP-DS-01	C074201-05	46T2	46T2	Groundwater	10/11/07 13:15	10/12/07 14:42
RP-TW-01	C074201-06	46T8	46T8	Groundwater	10/11/07 12:40	10/12/07 14:42
RP-TW-02	C074201-07	46T9	46T9	Groundwater	10/11/07 11:07	10/12/07 14:42
RP-TW-09	C074201-08	46W4	46W4	Groundwater	10/11/07 07:50	10/12/07 14:42
RP-TW-03	C074201-09	46W0	46W0	Groundwater	10/10/07 12:40	10/12/07 14:42
RP-TW-04	C074201-10	46W1	46W1	Groundwater	10/10/07 15:32	10/12/07 14:42
RP-TW-07	C074201-11	46W3	46W3	Groundwater	10/10/07 12:35	10/12/07 14:42
RP-RB-01	C074201-13	4658	4658	Equipment Rinse Blank	10/8/07 16:30	10/12/07 14:42
RP-TW-06	C074201-14	46T0	46T0	Groundwater	10/8/07 16:13	10/12/07 14:42
RP-TW-08	C074201-15	46T1	46T1	Groundwater	10/8/07 13:00	10/12/07 14:42
RP-TB-02	C074201-16		46T4	Trip Blank - Water	10/9/07 14:50	10/12/07 14:42
RP-TB-03	C074201-17		46T5	Trip Blank - Water	10/10/07 15:00	10/12/07 14:42
RP-TW-05A	C074201-18		46W8	Groundwater	10/10/07 08:15	10/12/07 14:42
RP-TB-04	C074201-19		46T6	Trip Blank - Water	10/11/07 14:00	10/12/07 14:42
RP-TB-01	C074201-20		4659	Trip Blank - Water	10/8/07 17:30	10/12/07 14:42



DATA QUALIFIER DEFINITIONS

U .	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP06	PE sample recovery less than control limits.
CLP07	PE sample recovery outside warning limits.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte low in continuing calibration verification standard
QC-2	Analyte high in continuing calibration verification standard
QC-3	Analyte calibration criteria not met
QS-3	Surrogate recovery is lower than established control limits.
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

- MDL Method Detection Limit The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit The analyte concentration which corresponds to the lowest quantitative point on the calibration curve or the lowest demonstrated level of acceptable quantitation.
- TIC Tentatively Identified Compound An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



Volatile Organics

Project: 08-0029, Red Panther Chemical Co R-P - OMW -OI Sample ID: <u>RP-MW-01</u>

Lab ID: <u>C074201-03</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY

Station ID:

Date Collected: 10/9/07 15:01

CAS	Analuta	Provide Outlider	(Willer Haller	MDI		
		Results Quilifiers		IIINL Frepared	Anaiyzeu A	1etnog
R4-7156	i (m- and/or, p-)Xylene	S.0.⊍:	ug/L and a	5.0,5 10/12/07	10/12/07 C	LP SOM01-2-V40
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01.2 V
79-34-5	1,1,2,2 Tetrachloroethane	5.0 U	ug/L	5.0 10/12/07	10/12/07, C	LP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01.2 V
	(Freon 113)					
79-00-55 773 83	1,1.2-I fichioroethane	5.0 U-22	ug/L\C		10/12/07# C	LP SOMULT VIEL
75-34-3	I,I-Dichloroethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	CLP SOM01.2 V
75-35-4	1.1-Dichloroethene (1.1-Dichloroethylene)	1	.≺,,ug/L	<i>⊴r</i> 5:0 ∧10/12/07	10/12/07 C	LP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 🤇	LP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U	ug/L	····	10/12/07	LP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01.2 V
107-06-2	1.2-Dichloroethane	ic		5.0.0 .0 /10/12/07	- 10/12/07j C	LP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U, J, QS-3	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01.2 V
123-91-1	1,4-Dioxane	دون (100 U) دون (۱۹۹۵)	ug/L	1002/110/12/07	10/12/07.C	LP.SOM01.2 V .
67-64-1	Acetone	10 U	ug/L	10 10/12/07	10/12/07 C	LP SOM01.2 V
71-43-2	Benzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 C	LP SOM01,2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U; J;QS-3	ug/L	5.0 10/12/07	- 10/12/07 C	LP SOM01.2.V.
75-25-2	Bromoform	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
74-83-9	Bromomethane	: this 5.0 U (1)	ug/l	5.0 10/12/07	10/12/07	LP SOMOL 2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
56-23-5	Carbon Tetrachloride	50 U 31	ug/L	5.0 3 10/12/07	10/ <u>12/0</u> 7	TLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
75-00-3	Chloroethane	50 U	د. ug/۱۰	5:0 10/12/07	10/12/07	LP SOM012V
67-66-3	Chloroform	5.0 U	ug/L	5.0 10/12/07	10/12/07 0	LP SOM01.2 V
74-87-3	Chloromethane	5.0 Ú	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0 10/12/07	10/12/07	LP SOM01.2 V

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Volatile Organics

Lab ID: <u>C074201-03</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical-Co $\rho \sim 0 \text{ MW} \sim 0 \text{ (} \text{ ab)}$ Sample ID: <u>RP-MW-01</u>

Station ID:

Date Collected: 10/9/07 15:01

Contract Lab Case: 36903 MD No: 46W6 BONNER D No: 46W6 SHEALY

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U, J, QS-3	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U, J, QC-1.	ug/L	5.0	≉≜10/12/07 _{.≾}	_10/12/07	CLP SOM01/2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8.43		5.0 U ⁺ (M ⁺)	ug/L	5:0,	10/12/07	10/12/07	CLP SOM01.2.V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	r 10 U	ug/L	10	110/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	_10 U ,	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5 0 U, J, QS-3	ug/L	5.0	. 10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	**50°U	ug/L ^{-p}	5.0	10/12/07	Ç10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene	9 49510 U.C.S.	sug/Ly;		§10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5-	trans-1,2-Dichloroethene	5 0 U 😽	k, ug/Lγ.	്റ്റ്റ്റ് 5.0	10/12/07	10/12/07	CLP SOM012 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6 _{1*6}	Trichloroethene (Trichloroethylene)	5.0 U	ug/L	5.0	10/12/07	2610/12/07 1940	CLP SOM01-2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	50 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively	Identified Compounds:			<u>.</u>			
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co P - 0MW - 02Sample ID: <u>RP-MW-02</u>

Lab ID: <u>C074201-04</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W7 BONNER D No: 46W7 SHEALY

Date Collected: 10/9/07 15:01

Station ID:

CAS Number #35	Analyte	Results Qualifiers	Units	MRL	Prepared	Anahzed	Method offer
R4-7156	(m- and/or p-)Xylene	5.0 U	ug/L	5.0	10/12/07	~>10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	21 5.0 U	ug/L 👻	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0 U	ug/L "*	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4 (4-i)	(1,1-Dichloroethene (1,1-Dichloroethylene)	5.0 U 🛼 🦗	ug/L	5.0 K	10/12/07	10/12/07	CLP.SOM01.2.V.
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene K -	≄¥ 510 U 1	si€ ug/L	5.0	10/12/07	10/12/07	CLPSOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	8nc 5.0 U	🔏 ug/L	5.0	10/12/07	10/12/07*	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1.2-Dichloroethane	5:0 U	ug/L	5:0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5:0 U	ug/L	s.o	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1.4-Dioxane	100 Ú	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	_ 10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0 U 🖓	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane			5.0	10/12/07)-10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ar∵, ug/L.	.5.0	10/12/07		CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	50 U - ii - 👘	ug/Ls at	5.0	10/12/07	510/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3 - He	Chloroethane	5.0 UC 5.0	ug/L ^r	\$5!013	10/12/07	10/12/07	CLPSOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane 26 Ale	510 U ¹¹ a 🙀	ug/L*	5:0	10/12/07	310/12/07	CLP SOM01.2-V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

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Volatile Organics

Project: 08-0029, Red Panther Chemical Co. RP-OMW-02 Sample ID: <u>RP-MW-02</u>

Lab ID: <u>C074201-04</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W7 BONNER D No: 46W7 SHEALY

Date Collected: 10/9/07 15:01

Station ID:

CAS	3 HT					1. 1 ⁷⁴	A PART IN
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	WCyclohexane Control of the second	5.0 U., A.L	training/L	5.0	10/12/07.14	10/12/07	CLP SOM01-2 X
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U, J, QC-1		5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U	ar ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V*
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U	ug/L	10*	10/12/07	10/12/07	CLP/SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U S	ug/L	10	-10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	25.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01 2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	± 5.0 U;	ug/L a	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U 🖓	úg/L ^{ar} r	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	₹ 5.0.U3	, fj∿lug/L	5.0	10/12/07	10/12/07	CLP.SOM01.2 VIL
10061-02-6	trans-1.3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01-2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U .	ug/L	\$5.0	10/12/07	10/12/07	CLP SOM01-2 Y
Tentatively I	dentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-DS-01</u>

Station ID:

Lab ID: <u>C074201-05</u>

Matrix: Groundwater

MD No: 46T2 BONNER D No: 46T2 SHEALY

Contract Lab Case: 36903

Date Collected: 10/11/07 13:15

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	50.U.	ug/L :*		10/13/07	10/13/07	CLP SOM01 2 V
71-55-6	I,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1.1.2.2 Tetrachloroethane	5.0 U	ug/L	1 5.0	10/13/07	10/13/07	CLP SOM01 2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0 U 🚓 🖘	ug/Ls	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	I,1-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V.
75:35-4	(1.1-Dichloroethene)	510.0	ug/L	***	10/13/07	10/13/07	CLP SOM01 2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1.2,4-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	3.1 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	12 Dibromoethane (EDB)	5.0 U	⊯ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2 ··· 🖓	1,2 Dichloroethane	5.0.Ur	ug/L	12 Ev 5.0	10/13/07	10/13/07/5	CLP SOM01 2 V 22
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1 ′≎	1,3-Dichlorobenzene	5.0 Um 1	v ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	0.79 J, CLP01	USiug/L	-ju:r 5.0	10/13/07	10/13/07	CLP SOM01 2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 US	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 Ua	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L	\$ \$5.0	10/13/07*	10/13/072	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U	ug/L	* ~ 5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V

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Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46T2 BONNER D No: 46T2 SHEALY

Sample ID: <u>RP-DS-01</u>

Station ID:

Lab ID: <u>C074201-05</u> Matrix: Groundwater

Date Collected: 10/11/07 13:15

CAS							Stines.
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U	ug/L	5:0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U, Ĵ, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01-2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10-U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	0.65 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01 2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 Ū	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1.3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Id	entified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V

12/21/07 10:46



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-01</u>

Station ID:

CAS

Lab ID: <u>C074201-06</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T8 BONNER D No: 46T8 SHEALY

Date Collected: 10/11/07 12:40

Number	Analyte	Results Qualifiers	Units s	MRL Prepare	d Analyzed	Method
R4-7156	(m-and/or p-)Xylene	51010111111111111111111	ug/L		7 10/13/07	CLP.SOM012V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachlöroethane	S 0 U 🖓	ug/L	5:0 10/13/0	7 10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0 U	ug/L	5.0, 10/13/0	17 10/13/07,	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0 10/13/0	17 10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene	5:0:U:	ug/L	5.0 10/13/0	7 - 10/13/07	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/13/0)7 10/13/07	CLP SOM01.2 V
120-82-14	1.2.4 Trichlorobenzene fil and the	50Uk	ug/L	steven 5:0	17 10/13/07	CLP SOM01-2 V.
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 Ú	ug/L	5.0 10/13/0	17:	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U	ug/L	5.0 10/13/0	17 10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U ÷54.	ug/L	5.0, 10/13/0	7 10/13/07	CLP SOM01.2 V-P
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
123-91-1	1.4-Dioxane	100 U, R, QC-3	ug/L	a 100 10/13/0	7 - 10/13/07	CLP SOM01.2 V
67-64-1	Acetone -	20 U	ug/L	100 10/13/0	7 10/13/07	CLP SOM01.2 V
7,1-43-2	Benzene	5.0 U * 11 2	ug/L-1 💦	5.0 Se 10/13/0	17 10/13/07	CLPSOM012West
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 UM	ug/L	£5.0 ₀ , 10/13/0	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	· 5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	37.15.0 10/13/0	17 10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0.U	ug/L	5.0 10/13/0	7. 10/13/07	CLP SOM01.2 Vi
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
75-00-34-4-	Chloroethane	50.⊍ 12.5	nug/L	5:0.//10/13/0	741-10/13/07	CLP SOM0121V
67-66-3	Chloroform	. 5.0 U	ug/L	5.0 10/13/0	7 10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0,⊍.*.	ug/L	5.0 - 10/13/0	7 10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0 10/13/0	10/13/07	CLP SOM01.2 V

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Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-01</u>

Station ID:

Lab ID: <u>C074201-06</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T8 BONNER D No: 46T8 SHEALY

Date Collected: 10/11/07 12:40

CAS			inder and the second	Reprint Chargepoint : Ref	1
Number	Analyte	Results Qualifiers	Units	MRL Prepared	Analyzed Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
110-82-7	Cyclohexane	50 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U, J, QC-1/5	ug/L	station 5.0 10/13/07	10/13/07 CLP SOM01/2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
98-82-8	Isopropylbenzene	5:0 U	ug/L	5.0.10/13/07	10/13/07 CLP SOM01-2 V-10
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
591-78-6	MethyliButyl/Ketone	10 U	ug/L	<i>i</i> 0/13/07	10/13/07 CLP SOM01.2-V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
108-87-2	Methylcyclohexane	50 U	⊂sug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
95-47-6		5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 Ų	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
156-60-5	trans-1.2-Dichloroethene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U to	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	· ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-01-4	Winyl chloride	5.0 U	ug/L+	5.0.; 10/13/07	10/13/07 CLP SOM01 2 V
Tentatively I	dentified Compounds:				· .
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5 10/13/07	10/13/07 CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46T9 BONNER D No: 46T9 SHEALY

Sample ID: <u>RP-TW-02</u> Station ID:

Lab ID: <u>C074201-07</u>

Matrix: Groundwater

Date Collected: 10/11/07 11:07

CAS Number	Analyte	Results Qualifiers	Units	MRL Prepared	Analyzed Method
R4-7156	(m-and/or p-)Xylene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01/2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U, J, QC-2	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
10 00	(Freon 113)	A D TT		E 0 10000	
/9-00-5		5.0 U	ug/L	5.0 10/13/07	IO/13/07 CLP SOMOL2 V
/5-34-3		5.U U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
/3-35-4	(1,1+Dichloroethene	3.0 U	ug/L	5.0 (10/13/0)	10/13/07 CLP SOMOL2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 U	si ing/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01-2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3	ug/L	100 10/13/07	10/13/07 CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
71-43-2	Benzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01/2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 Ú	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L	5,0 10/13/05	10/13/07 CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U	ug/L	5.0 10/13/0	10/13/07 CLP SOM01.2 V
156-59-2	cis-1.2-Dichloroethene	5.0 Ū	ug/L	5.0 10/13/07	10/13/07 C1.P SOM01.2 V

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C074201 FINAL

12/21/07 10:46



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-02</u>

Station 1D:

Lab ID: <u>C074201-07</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T9 BONNER D No: 46T9 SHEALY

Date Collected: 10/11/07 11:07

CAS						iden og	
Number	Analyte	Results	Qualifiers Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0	U	5.0	10/13/07	10/13/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0	U, J, QC-1 ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10	U ug/L	10	10/13/07	10/13/07	CLP.SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10	U ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10	U ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroeth	/lene) 5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1.2-Dichloroethene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene	\$)	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11) 5.0	U ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0	U ug/L	5.0	3 10/13/07	10/13/07	CLP SOM01.2 V
Tentatively Id	entified Compounds:						
R4-0000	Tentatively Identified Compounds	5	U ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-09</u>

Station ID:

Lab ID: <u>C074201-08</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Date Collected: 10/11/07 7:50

CAS Number	Analyte:	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m-and/or.p-)Xylene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1.1,2,2-Tetrachloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	510 U.C	ug/Lat	. 5.0.	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1;1-Dichloroethene 1;1- (1,1-Dichloroethylene)		ug/L	5.0	10/13/07	10/13/07	CLP.SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5:0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB):	50 U Starter	ug/L	5.0	10/13/07	,10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	± 1 0.0 510 U	ng tun ug/L Ling ing	5.0	10/13/07	310/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0.U	ug/Ly-,	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3	ug/L	100	10/13/07	.10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0 U	ig/L +	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	erre ar ≢5.0 U	ug/L - 4	5.0	10/13/07,	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0	10/13/07	¹⁶ 10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U	≫şug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane		ug/L _{ext}	\$.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3 pie	Chloromethane	0.0.U	and sug/Land was	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46W4 BONNER D No: 46W4 SHEALY

Sample ID: <u>RP-TW-09</u> Station ID: Lab ID: <u>C074201-08</u> Matrix: Groundwater

Date Collected: 10/11/07 7:50

CAS			17	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
Number	Analyte	Results Qualifiers	Units 4.2	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane -	5.0.Ų	¹⁵ San ug/L	. 1, 5.0	10/13/07-	10/13/07	CLP SOM01.2 V. cj. in
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane :	5.0 U, J, QC-1	the sug/L	5.0	10/13/07	10/13/07	CLP SOM012W
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8-1	Isopropylbenzene	5.0.U2	ug/L		10/13/07	10/13/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U (1993)	ug/b. W.	°r≕10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U 🖓 🖓 🖓	l _a r is ug/L .	، 10°	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	⊂)e''''.ug/L	्र 5.0	10/13/07	10/13/07	CLP SOM012 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U ₁₁	ι, ^Γ , γ∙ug/L *	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U	jug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U	L 1, üg/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V.
10061-02-6	trans-1,3-Dichloropropene	5.0 U .	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	····· 5:0 U · · · ⇒ ; ∢ ;	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U	ug/L	5.0	210/13/07	,10/13/07 ¹	CLP SOM01.2 V
Tentatively I	dentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-03</u>

Station ID:

Lab ID: <u>C074201-09</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W0 BONNER D No: 46W0 SHEALY

Date Collected: 10/10/07 12:40

CAS Number	Analyte	Results Qualifiers	Units	MRL Prepar	ed Analyzei Method
R4-7156	(m- and/or p-)Xylene	5.0 U	(ug/L	5 0 10/13/	07 10/13/07 CLP SOM01 2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
79-34-5	1.1.2.2-Tetrachloroethane	5.0-U. ··· 📈	u S. 2 ug/Lt	5.0 , 10/13/	07 10/13/07 - CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
79-00-5	el, i.2-Trichloroethane	5.0 U	s ug/L∶	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1+Dichloroethylene)	5.0 U	land ug/L '' ¶1	5.0 10/13/	07, 10/13/07, CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U	ug/L∙	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 U	ug/L	5.0 10/13/	07 - 10/13/07 CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
107-06-2	1.2-Dichloroethane	5.0.Us	ue/L	5.0 10/13/	07) 5 10/13/07 CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/	07 10/13/07 - CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3**	#** ug/L	100 10/13/	07 10/13/07 CLP SOM01.2 V
67-64-1	Acetone	· 10 U	ug/L	10 10/13/	/07 10/13/07 CLP SOM01.2 V
71-43-2	Benzene	5.0 U	ug/L	5.0 10/13/	07 10/13/07 CLP.SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U	− ug/L	5.0 10/13/	07.5-10/13/07. CLP.SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
74-83-9	Bromomethane	5.0 United in the	ug/L /m	5.0 10/13/	07 10/13/07 CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U	"ug/L	5.0 , 10/13/	/07 10/13/07 CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01:2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U	≫, ug/L	5.0 10/13/	/07 10/13/07 CLP SOM01-2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ue/L	5.0 10/13/	/07 10/13/07 CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-03</u>

Station ID:

Lab ID: <u>C074201-09</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46W0 BONNER D No: 46W0 SHEALY

Date Collected: 10/10/07 12:40

CAS			Son ang tan si sa	ta je je da konstruiter Nationalistické statistické statistické statistické statistické statistické statistické statistické statistické	
Number	Analyte	Results Qualifiers	Units	MRL Prepared	Analyzed Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
110-82-7	Cyclohexane sittis	5.0 U	ug/L ^{ug}	5.0 10/13/07	10/13/07 CLP.SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U, J, QC-1	ug/L _{jp}	5.0 10/13/07	10/13/07 CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
98-82-8	Isopropylbenzene	stern 5.0 U. stern	ug/L/	5.0 10/13/07	10/13/07- CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	+••• 10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2.V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	ug/L	5:0 10/13/07	10/13/07 CLP SOM01 2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
95-47-6 Jan	o-Xylene		ug/L _w rans	5.0 *10/13/07	10/13/07/- CLP.SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
127,18-4	Tetrachloroethene (Tetrachloroethylene)		ug/L	<u>نام 5.0</u> 10/13/07	10/13/07 #CLP SOM01.2.V
108-88-3	Toluene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-01-4	Vinyl chloride	₩∓+5.0)U	Line ug/L	5.0 10/13/07	10/13/07. CLP SOM01.2 V
Tentatively lo	lentified Compounds:				
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5 10/13/07	10/13/07 CLP SOM01.2 V


Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station 1D:

Lab ID: <u>C074201-</u>10

Matrix: Groundwater

MD No: 46W1 BONNER D No: 46W1 SHEALY

Contract Lab Case: 36903

Date Collected: 10/10/07 15:32

CAS Number	Analyte	Results Qualifiers	Units'	MRL	Prepared	Analyzed	Method
				-92 -		e e transferie de la constanció	
R4-7156	(m-and/or p-)Xylene	5.0 U	ug/L	5.0	10/13/07 .	- 10/13/07	CLP SOM01-2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07-	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	ana 25.5.0 U	and ug/E of the	40mq5.0	10/13/07,	10/13/07	CLP SOM01.2 V
75-34-3	I,1-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V 🔅
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)) 5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0 U	/L,,	, 5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1.2-Dichloroethane	2.50 U	Pug/Lang	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	U	ug/L	5.0	10/13/07	. 10/13/07	CEP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U; R; QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	50 U	ug/L	5:0	10/13/07,	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	· 5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	50 U	e oge	5:0	(10/13/07 ₎	<u>2 10/13/07</u>	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane 1/	50 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	- i - 5.0 U	ug/L	5.0	10/13/07.	10/13/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	торы 5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane; Chloro	5:0 U	ug/L	5.0	10/13/07	, 10/13/07,	CLP SOM01-2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-04</u>

Station ID:

Lab ID: <u>C074201-10</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W1 BONNER D No: 46W1 SHEALY

Date Collected: 10/10/07 15:32

CAS Number	Analyse States	Results Outliffers	Tinic	MPI		YP,	
			C. T. C. III		a repared	Analyten	MCMOULT AND A STATE
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U*	ug/L	5.0	10/13/07	10/13/07	CLP/SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	50 U, J, QC-1	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.010	ug/L's	5'0	10/13/07	10/13/07	CLP SOM01-2 Visite
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	<u>10</u> .U	ŭg/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone 😪 🚰	10 U	ug/L	10 a	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	ug/L	5.0]	10/13/07	10/13/07	CLP SOM012 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5 <u>0U</u>	ug/L	5.0	10/13/07	10/13/07	CLP SOM01:2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroeth	ylene)	¥≪ ug/L	5.0	si0/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1/2-Dichloroethene	3a - San	ug/L ritr	5.0	10/13/07	10/13/07	CLP SOM01-2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylen	e) 5.0 [*] U	^{tut} üğ∕L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 1	1) 5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0.U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01-2 V
Tentatively	dentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46W3 BONNER D No: 46W3 SHEALY

Sample ID: <u>RP-TW-07</u> Station ID:

Lab ID: <u>C074201-11</u>

Matrix: Groundwater

Date Collected: 10/10/07 12:35

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	26	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5	1;1,2,2-Tetrachloroethane	SOU	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	1.1=Dichloroethene (1.1-Dichloroethylene)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP.SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0.U	ug/L	5,0	_ 10/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	110	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5:0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	0.76 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	1.3 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3	ug/L	100	10/13/07	10/13/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	1.9 J, CLP01	₩ [™] ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5(0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP.SOM01.2 V
108-90-7	Chlorobenzene	3.0 J, CLP01	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0×U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP.SOM01.2 V
156-59-2	cis-1.2-Dichloroethene	50.0	ug/L	5.0	10/13/07	10/13/07	CLP SOM01,2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-07</u>

Station ID:

Lab ID: <u>C074201-11</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W3 BONNER D No: 46W3 SHEALY

Date Collected: 10/10/07 12:35

CAS				ан ^{си и} и и и	
Number	Analyle St.	Results Qualifiers	Units,	MRL Prepared	Analyzed Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
110-82-7	Cyclohexane	. (.)	ug/L	5:0 10/13/07/	10/13/07, CLP SOM01-2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U; J;QC-1	ug/L	5.0 10/13/07	10/13/07 CLP.SOM01.2 V
100-41-4	Ethyl Benzene	12	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
98-82-8	Isopropylbenzene		ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10 10/13/07	10/13/07 CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone		ug/L	10 10/13/07;	10/13/07 CLP.SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.3 J, CLP01	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
108-87-2	Methylcyclohexane	1.50.04.5	≥ /ug/L	5.0 10/13/07	10/13/07/2 CEP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
95-47-6	o-Xylene C	7513年7月1	ug/L (5.0 10/13/07	10/13/07.44CLP SOM01-2.V4
100-42-5	Styrene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
127-18-4,	· Tetrachloroethene (Tetrachloroethylene)	50U	ug/L	5.0 0/13/07	10/13/07 CLP SOM01.2 V
108-88-3	Toluene	0.52 J, CLP01	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
156-60-5	trans-12-Dichloroethene	offer 5:0, U	ug/L	5.0 10/13/07	10/13/07 5 CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
79-01-6.	Trichloroethene (Trichloroethylene)	4. 5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U (1985-3(1995)	ug/L	5.0 10/13/07	10/13/07 CLP SOM01.2 V
Tentatively le	lentified Compounds:				
526-73-8	Benzene, 1,2,3-trimethyl-	50 NJ, CLP15	ug/L	10/13/07	10/13/07 CLP SOM01.2 V
95-93-2	Benzene, 1,2,4;5-tetramethyl-	6 NJ, CLPIS	ug/L	10/13/07	10/13/07 CLP SOM01.2 V
874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	6 NJ, CLP15	ug/L	10/13/07	10/13/07 CLP SOM01.2 V
611-14-3	Benzene 1-ethyl-2-methyl-	-30'NJ, CEP15	ug/L	10/13/07	10/13/07 S CUP SOM01.2 V
620-14-4	Benzene, 1-ethyl-3-methyl-	80 NJ, CLP15	ug/L	10/13/07	10/13/07 CLP SOM01.2 V
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	6 NJ; CLPI5	ug/L	10/13/07	*10/13/07 #CLP SOM01-2 V
873-49-4	Benzene, cyclopropyl-	30 NJ, CLP15	ug/L	10/13/07	10/13/07 CLP SOM01.2 V

C074201 FINAL

12/21/07 10:46



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-07</u> Station ID: Lab ID: <u>C074201-11</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46W3 BONNER D No: 46W3 SHEALY

Date Collected: 10/10/07 12:35

CAS Number	Analyte and analyte	Results Qualifiers	Units'	MRL Prepared Ana	bzed Method
Tentatively Ic	lentified Compounds:				
103-65-1	Benzene, propyl-	10 NJ; CLP15	ug/L	10/13/0710/1	3/07 CLP SOM01.2 V
91-20-3	Naphthalene	30 NJ, CLP15	ug/L	10/13/07 10/1	3/07 CLP SOM01.2 V
90-12-0 ₁₁₋₁	Naphthalene, I-methyl2	10 NJ, CLP15	ug/L	10/13/07 10/1	3/07 CLP SOM01-2 V
91-57-6	Naphthalene, 2-methyl-	20 NJ, CLP15	ug/L	10/13/07 10/1	3/07 CLP SOM01.2 V
R4-6501	Unidentified Compound(s)	8-J, CLP15	ug/L	10/13/07 10/1	3/07 CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

Sample ID: <u>RP-RB-01</u> Station ID: Lab ID: <u>C074201-13</u>

Matrix: Equipment Rinse Blank

Date Collected: 10/8/07 16:30

CAS				n 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199 Alaman - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997		and the second s	to all works was	
Number	Analyte	Results	Qualifiers	"Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0	U	ug/L ??	5.0	10/12/07	10/12/07	CLP SOMOTO V
71-55-6	I, I, I-I richloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	10/12/07	0/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	1112-Trichloroethane	5.0	U	ug/L	.8. 5.0	10/12/07	10/12/07	CLP SOM01.2 V, 7 m
75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	1 1-Dichloroethene (141-Dichloroethylene)		J, CLP01	ug/L-24.45	: 10 5:0	10/12/07	10/12/07	CLP SOM012 V
87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1.2.4-Trichlorobenzene	5.0	U	si lu⇔sug/L i li ⊰≵		10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1.2-Dibromoethane (EDB)		U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0 -	10/12/07	10/12/07	CLP SOM01.2 V-2442
78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1.3-Dichlorobenzene	- (U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	I,4-Dichlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1 -	1,4-Dioxane	100	U	ug/L	100	10/12/07×	10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10	U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	A 2 6 8 6 6 5 0	Ų	ug/L ^a strik	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4 B	Bromodichloromethane	1-1-1-5.0	U	, ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 S.O	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0	U	ug/L	<u>5.0</u>	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	2.3	J, CLP01	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0	U	ug/L ji	5.0	10/12/07	≈10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Lab ID: <u>C074201-13</u>

Matrix: Equipment Rinse Blank

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No: 46S8 BONNER D No: 46S8 SHEALY

Sample ID: <u>RP-RB-01</u>

Station ID:

Date Collected: 10/8/07 16:30

CAS Number	Analyte States	Results Qualifiers.	Units	MRL	Prepared	Ânalyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane State State State	5.0 U 🔅 🖓 🖕		5.0	10/12/07	-10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane 4.55	5 0 U, J, QC-1	Saffer ug/L	5.0	10/12/07	\$10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U	Shic Nestriug/Ls as a ⊲	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U	ug/L	10	10/12/07		CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U	(二)	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	ug/L	5.0	10/12/07	_G 10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U 🚛 🖓	ug/L	5.0	10/12/07	10/12/07	CLP SOM01 2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4 (24-32)	Tetrachloroethene (Tetrachloroethylene)	5.0 U	ne e siug/L	··· 5.0	10/12/07	_10/12/07 [*]	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/12/07+	/10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U	kerina kug∕L	5.0	10/12/07	10/12/07.	CLP SOM01.2 V
Tentatively Id	entified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u>

Lab ID: <u>C074201-14</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T0 BONNER D No: 46T0 SHEALY

Station ID:

Date Collected: 10/8/07 16:13

CAS				The second s				
Number	Analyte		Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	1. W. W. Watata Barnan a	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane		5,0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Triflue	oroethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
70 00 5	(Freon 113)	i i i i i i i i i i i i i i i i i i i	CARD & A TI	10 -1	50	10/02/02	10/12/07	CLP SOMEL2 X
79-00-5	1.1 Dichlaraethana	a the second	50 U	ug/L	5.0	10/12/07	10/12/07	
75-34-3	1,1-Dichloroeunane	»	5.U U	ug/L	5.0 5.0	10/12/07	10/12/07	
/5-35-4	(1.1-Dichloroethene)	e de la companya de l Reference de la companya de la company	5.0 0	uB/t	3.0	10/12/07	10/12/07	CLF SOMOLZ V
87-61-6	1,2,3-Trichlorobenzene	2000.00 a	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene		5,0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropa	ine (DBCP)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	20000000000000000000000000000000000000	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane		5.0 Ŭ	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	200000000000000000000000000000000000000	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	I,3-Dichlorobenzene		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	190	100 U	ug/L	100	10/12/07	10/12/07	CLP SOM01.2 V
67-64-1	Acetone		10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	S Peter	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-25-2	Bromoform		5.0 U	ug/L ·	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	aoge.v e -	5.0 U	ug/L	\$.0	10/12/07	10/12/07	CLP SOM01.2 V
75-15-0	Carbon disulfide		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride		5.0 U	ug/L	5.0 «	10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene		5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V

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C074201 FINAL

12/21/07 10:46



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-06</u>

Station 1D:

Lab ID: <u>C074201-14</u> Matrix: Groundwater Contract Lab Case: 36903 MD No: 46T0 BONNER D No: 46T0 SHEALY

Date Collected: 10/8/07 16:13

CAS						an a	
Number	Analyte	Results	Qualifiers	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 (U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U	U ug/L	5.0	10/12/07	- 10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	U ug/l.	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 t	U, J, QC-1 ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 (U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 t	U ug/L	5.0	10/12/07		CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 (U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 (U ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 0	U ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 1	Ս սցՈ		10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 (Uug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 t	U ug/I.	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 (U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-42-5	Styrene	5.0 U	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethyler	e) 5.0 I	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 1	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 1	U 'ug/L	5.0	10/12/07	10/12/07	ČLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 (U ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Ide	entified Compounds:						
R4-0000	Tentatively Identified Compounds	5 (U ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u>

Station ID:

Lab ID: <u>C074201-15</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Date Collected: 10/8/07 13:00

CAS Number	Analyte	Results Qualifiers	Units	MRL Prepared	Analyzed Method
R4-7156	(m-and/or,p:)Xylene		, ùg/L	5.0 5 .0/12/07	10/12/07: ACLP SOM01-2:V/33
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachlomethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01/2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
79-00-5.	1,1,2-Trichloroethane	≈ : 5.0 U +	≯ ug/L	5.011 10/12/07	\$10/12/07 CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	5.0 U	sug/L	5.0, 10/12/07.	10/12/07 CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0.U;÷;	ũg∕L Ŷ	5.0 2 10/12/07	10/12/07 & CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
106-93-45	1;2-Dibromoethane (EDB)	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
107-06-2	3.1.2-Dichloroethane	114.5 P 50 U - 12 2	ug/L ¹	5.0 2 10/12/07	10/12/07 CLP.SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 Ū'e 👯	ug/L	5.0 - 10/12/07	10/12/07 CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
123-91-1)	1,4-Dioxane	100 U 🖓 🖓	ug/k++⇔e	100 10/12/07	10/12/07 CLP SOM01.2 V.
67-64-1	Acetone	10 U	ug/L	10 10/12/07	10/12/07 CLP SOM01.2 V
71-43-2	Benzene	5.0 U 🖓 👯	úg/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0.U	ug/L	5.0 10/12/07	10/12/07 -> CLP SOM01 2 V.
75-25-2	Bromoform	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U	ug/L i	5.0 10/12/07	10/12/07 CLP SOM01/2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L ^{12,7,6,1}	5:0 10/12/07	10/12/07 CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U.	ug/L	5.0 10/12/07	10/12/07. CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0 10/12/07	10/12/07 CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TW-08</u>

Station ID:

Lab ID: <u>C074201-15</u>

Matrix: Groundwater

Contract Lab Case: 36903 MD No: 46T1 BONNER D No: 46T1 SHEALY

Date Collected: 10/8/07 13:00

CAS 😹				Îŝri			щa.
Number	Analyte	Results Qualifiers '	Units	MRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane Cyclohexane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	^{2/3/25} 5.0 U, J, QC-1	'si _ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	50.⊍	μg/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	51,10 U -	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U	ug/L ^{eak} es	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	50 U	i jug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene		ug/L, F	5.0	10/12/07	10/12/07	CLP.SOM01.2 V+9
100-42-5	Styrene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene	e)	is ug/Lyderia	<u>5.0 </u>	10/12/07	10/12/07.	CLP SOM01 2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U	⊭ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	17 −5 .0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5 <u>0</u> ,U	sug/L 5 - Nu	\$5.0	10/12/07	210/12/07	CLP SOM01-2 V
Tentatively l	dentified Compounds:		_				
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V

12/21/07 10:46



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No:

Sample ID: <u>RP-TB-02</u> Station ID: Lab ID: <u>C074201-16</u>

Matrix: Trip Blank - Water

D No: 46T4 SHEALY

Date Collected: 10/9/07 14:50

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.0 U	Buug/L	5.0	10/12/07	10/12/07	CLP.SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-34-5 mm	141.2.2-Tetrachloroethane	5.0 U	in ug/L	5.0	10/12/07	-10/12/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-00-5	I.I.2-Trichloroethane	5.0 U	, string/L,	5.0	10/12/07	410/12/07	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-35-4	I,I=Dichloroethene (I;I=Dichloroethylene)	-5.0 U	ug/L	5.0	10/12/07	10/12/0 <u>7</u>	CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0 U 🦉	ug/L	5.0	10/12/07	_{n:} 10/12/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	/ 5.0 U	ing ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
107-06-2	1.2-Dichloroethane	50°U	ug/L	5.0	~10/12/07 <u>-</u>	(10/12/07)	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
541-73-1	1,3-Dichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U	v j⇔jeug/L	100	10/12/07;	-10/12/07	CLP SOM01.2 V
67-64-1	Acetone	10 U	. ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
71-43-2	Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CUP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U 👯	ug/L .	5.0	10/12/07	10/12/07	CLP SOM01-2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	5.0 U 🖓 🖓	ug/L•	5.0	-10/12/07	10/12/07	CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0.U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903

Sample ID: <u>RP-TB-02</u>

Lab ID: <u>C074201-16</u>

MD No: D No: 46T4 SHEALY

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/9/07 14:50

CAS				1			
Number	Analyte	Results Qualifiers	Units	MRL .	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7	Cyclohexane	·····	in in ing/L	≫ <u>#</u> ~5.0	10/12/07	10/12/07	CLP SOM01.2.V
124-48-1	Dibromochloromethane	5.0 U .	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5.0 U, J, QC-1	ug/L nors S	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U	ug/L	× 5.0 ×	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10 U	ug/L	10	10/12/07,-	10/12/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
يلية 1-10-1 108-10-1	Methyl Isobutyl Ketone		ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U	s>∋ ug/L	₹ <u>.</u> 5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	SI SI U HOUSE	ug/L	5:0	10/12/07	\$10/12/07	CLP SOM01.2 Version
100-42-5	Styrene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U	ug/L	<u>, ⇒</u> 5.0	10/12/07	10/12/07	CLP SOM01 2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1.2-Dichloroethene	5.0 U	ug/L	5.0	10/12/07	.10/12/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	25.0/Ŭ	ug/L	;; # ,/5:0 ∩	10/12/07	10/12/07	CLP SOM01 2-V+ -+*
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U	ug/L y	5.0 S.O	10/12/07	10/12/07	CLP SOM01-2 V
Tentatively lo	lentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TB-03</u>

Station ID:

Lab ID: <u>C074201-17</u>

Matrix: Trip Blank - Water

Contract Lab Case: 36903 MD No:

D No: 46T5 SHEALY

Date Collected: 10/10/07 15:00

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method 25
R4-7156	-72 (m- and/or p-)Xylene_111.	5.0 U zatario	ug/La	5:0,	10/13/07	8,10/13/07 ⁹	CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-34-5		5.0 U	ug/L	5.0	10/13/07	×10/13/07	CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-00-5	set 1.1.2-Trichloroethane	5.0 U + +++++++++++++++++++++++++++++++++	ug/L su	5.07	10/13/07	10/13/07/~	CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	- 5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-35-4	I,I-Dichloroethene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLPSOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
120-82-1	1:2:4-Trichlorobenzene	5.0 U	ug/L	5.0	310/13/07	10/13/07	CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
106-93-4	sist:2-Dibromoethane (EDB)	50/U2	ug/L	5.0 _×	10/13/07	j 10/13/07	CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
541-73-1	1.3-Dichlorobenzene	510 Uti Sin C	ug/L	5.0	10/13/07	. 10/13/07	CLP SOM01.2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
123-91-1	1.4-Dioxane	100 U, R; QC-3	ug/L	100	10/13/07	J0/13/07	CLP SOM01.2 V
67-64-1	Acetone	. 10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
71-43-2	Benzene	5.0 U	ug/L	in 5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-27-4	Bromodichloromethane	5:0 Up #0.27	ug/L	5.0	10/13/07	10/13/07, 1	CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U .	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
56-23-5	a Carbon Tetrachloride	5.0 Uproserver	ug/L Hall-	5.0	. 10/13/07	10/13/07	CLP, SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L A	5.0	10/13/07.	10/13/07	CLP SOM01.2 V
67-66-3	Chloroform	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
74-87-3	Chloromethane	5.0 U 🤷	ug/L ⁴⁰⁵	5.0	10/13/07	10/13/07	CLP _I SOM01-2 V
156-59-2	cis-1.2-Dichloroethene	501	це/Ι.	5.0	10/13/07	10/13/07	CLP SOM01.2 V

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C074201 FINAL



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No:

Sample ID: <u>RP-TB-03</u> Station ID: Lab ID: <u>C074201-17</u>

Matrix: Trip Blank - Water

D No: 46T5 SHEALY

Date Collected: 10/10/07 15:00

CAS.						12023 - J	
Number	Analyte	Results Qualifiers	Units	IRL	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	- 5:0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01'2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane - constant and the	45.0 U, J, QC-1	en son rug/L	5.0	10/13/07	10/13/07	CLP.SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene		ug/L	5.0	10/13/07	10/13/07-	CLPSOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-65	Methyl Butyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1 - #	Methyl Isoburyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87 2	Methylcyclohexane	5.0 U	ug∕L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	ग™5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP.SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4-0	Tetrachloroethene (Tetrachloroethylene)	5.0 U	ing/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0.U	rn i soug/L	5.0	10/13/07	10/13/07	CLP SOM01-2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01-2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	5.0 U	ug/L'	5.0	10/13/07	10/13/07	CLP SOM01.2 V
Tentatively lo	lentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Lab ID: <u>C074201-18</u>

Matrix: Groundwater

Project: 08-0029, Red Panther Chemical Co RP - TW - 05 (a) Sample ID: <u>RP-TW-05A</u>

54111pie 1D. <u>---</u>

Station ID:

Date Collected: 10/10/07 8:15

Contract Lab Case: 36903 MD No:

D No: 46W8 SHEALY

CAS		and the second second second	v. Veg	1944 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 -	
Number	Te Analyte	Results Qualifiers	Units	MRL: Prepared	Analyzed Method
R4-7156	(m- and/or, p-)Xylene	5.0 U	ug/L	5.0 310/15/07	10/15/07 CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/15/07	10/15/07 CLP SOM01.2 V
79-34-5	1,1,2,2-Tetrachloroethane	50 U.	ug/L	G. 5:0 10/15/07	4-10/15/07 CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	ug/L	5.0 10/15/07	10/15/07 CLP SOM01.2 V
	(Freon 113)			EAST	
79-00-5	1,1,2-1fichioroeunane	41 × 5.0 U	ug/L		10/15/07 CLP SOM01 2 V
75-34-3	I, I-Dichloroethane	5.0 U	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V
75-35-4	(1) L-Dichloroethere		ug/L	5:0 10/15/0 ⁻	/ = 10/15/07 SICLP SOMULZ V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/15/01	7 10/15/07 CLP SOM01.2 V
120-82-1:4-1	1,2,4-Trichlorobenzene	5.0 U	ug/L	5.0 10/15/0	10/15/07 CLP SOM01.2 V
96-12-8	l,2-Dibromo-3-Chloropropane (DBCP)	0.69 J, CLP01	ug/L	5.0 10/15/03	7 10/15/07 CLP SOM01.2 V
106-93-4	1.2-Dibromoethane (EDB)	510-U - 355-244	ug/L	a ⇒∋5.0 10/15/0	10/15/07 CLP SOM01:2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/15/01	7 10/15/07 CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5.0 U	ug/L	5.0 10/15/0	10/15/07 CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0 10/15/01	7 10/15/07 CLP SOM01.2 V
541-73-1	1.3-Dichlorobenzene	50°Un Ev-	ug/L +	5.0 10/15/0	10/15/07/1 CEP SOM01-2 V
106-46-7	1,4-Dichlorobenzene	5.0 U	ug/L	5.0 10/15/01	7 10/15/07 CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U	ug/L	100 10/15/0	10/15/07 CLP SOM01.2 V
67-64-1	Acetone	60	ug/L	10 10/15/01	7 10/15/07 CLP SOM01.2 V
71-43-2	Benzene	5.0 U	ug/L	G ¹⁴¹ 5.0 (10/15/0	10/15/07 CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/15/01	7 10/15/07 CLP SOM01.2 V
75-27-4	Bromodichloromethane	÷ \$.0 Ú	ug/L	5.0 10/15/0	10/15/07 CLP SOM01.2 V
75-25-2	Bromoform	5.0 U	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V
74-83-9	Bromomethane	5.0 U	ug/L	5.0 10/15/0	10/15/07 CLP SOM01.2 V
75-15-0	Carbon disulfide	5.0 U	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V
56-23-5	Carbon Tetrachloride	/i	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V
108-90-7	Chlorobenzene	5.0 U	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V
75-00-3	Chloroethane	5.0 U	ug/L	5.0 10/15/0	10/15/07 CLP SOM01.2 V
67-66-3	Chloroform	0.77 J, CLP01	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V
74-87-3	Chloromethane	11150 U	ug/L L	5.0 /10/15/0	10/15/07 CLR SOM01.2 V
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	5.0 10/15/0	7 10/15/07 CLP SOM01.2 V

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C074201 FINAL

12/21/07 10:46



Volatile Organics

Project: 08-0029, Red Panther Chemical Co RP - TW - 05

Contract Lab Case: 36903 MD No: D No: 46W8 SHEALY

Sample ID: <u>RP-TW-05A</u> Station ID:

Lab ID: <u>C074201-18</u>

Matrix: Groundwater

Date Collected: 10/10/07 8:15

CAS Number	Analyte	tesults Qualifiers	Units	, MRL -	Prepared	Analyzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U Star	ug/L	\$,5.0	10/15/07	10/15/07	CUP.SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5 0 U, J, QC-2	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5.0 U	ug/L	-5.0	10/15/07	10/15/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	10.USPEED	ug/L÷≓≨S	s: 10	10/15/07	10/15/07+	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/15/07	10/15/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10.U£	ug/L	10	10/15/07	10/15/07	CLP SOM01.2.V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	5.0 U - r 🔐	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
95-47-6.	o-Xylene	5.0.02	ug/L	3×5.0	10/15/07	110/15/07	CLP SOM01.2.V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP-SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	5.0 U	ug/L	***5:0	10/15/07	10/15/07/	CLP SOM01.2 V
108-88-3	Toluene	0.52 J, CLP01	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	50 U 24	ug/L	њ¥5.0	10/15/07	-10/15/07	CLP SOM01.2 V H
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/15/07	10/15/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	50 U. S. S	ug/E - Terrar	5.0	10/15/07	10/15/07/	CLP SOM01 2 V
Tentatively l	Jentified Compounds:		1				
R4-6501	Unidentified Compound(s)	7 J, CLP15	ug/L		10/15/07	10/15/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No:

Sample ID: <u>RP-TB-04</u>

Lab ID: C074201-19

Station ID:

Matrix: Trip Blank - Water

D No: 46T6 SHEALY

Date Collected: 10/11/07 14:00

CAS			19196-1. ¹⁹ 91 191		
Number	Analyte	Results Qualifiers	Units States	MRL Prépare	d Analyzed Method
R4-7156	(m- and/or p-)Xylene	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
71-55-6	1,1,1-Trichloroethane	5.0 U	ug/L	5.0 10/13/0)7 10/13/07 CLP SOM01.2 V
79-34-5	1:1.2:2-Tetrachloroethane		ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.0 U, J, QC-2	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
79-00-5	1,1,2-Trichloroethane	,	tug/L	5.0 10/13/0	07: 10/13/07 CLP SOM01.2 V
75-34-3	1,1-Dichloroethane	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
75-35-4	1:1-Dichloroethene		ug/Last	5.0 10/13/0	07 ¹⁷¹⁻¹ 10/13/07 CLP SOM01.2 V
87-61-6	1,2,3-Trichlorobenzene	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
120-82-1	1,2,4-Trichlorobenzene	²⁷⁴⁴ 5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
106-93-4	1,2-Dibromoethane (EDB)	5.0.U	Eug/L ^{eas}		07 10/13/07 CLP SOM01.2 V
95-50-1	1,2-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
107-06-2	1,2-Dichloroethane	5:0 UI	₩¶_ Pug/L	5.0 10/13/0	174-10/13/07/0 CLP SOM01.2 V
78-87-5	1,2-Dichloropropane	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
541-73-1	13-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/0	07 10/13/07- CLP SOM01.2 V
106-46-7	1.4-Dichlorobenzene	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
123-91-1	1,4-Dioxane	100 U, R, QC-3	ug/L	100 10/13/0	0710/13/07 CLP SOM01.2 V
67-64-1	Acetone	10 U	ug/L	10 10/13/0	07 10/13/07 CLP SOM01.2 V
71-43-2,	Benzenc	statin 5:0 U	ug/L	5.0 a 10/13/0	07 10/13/07 CLP SOM01.2 V
74-97-5	Bromochloromethane	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
75-27-4	Bromodichloromethane	st∰asSi0)U##9a	⊊ug/L s	5.0 10/13/0	07/ 10/13/074 CLP SOM01.2 V
75-25-2	Bromotorm	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
74-83-9	Bromomethane	<u></u>		5.0 10/13/0	07 10/13/075 CLP SOM01.2 V
75-15-0	Carbon disullide	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
56-23-5		5.0 U	ug/L	5.0	07 10/13/07 CLP SOM01.2 V
108-90-7	Chlorophara	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLF SOM01.2.V
/3-00-3	Chloroform	5.0.11	ug/l	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V
74-07-3	Chloromethane	5.0 U	ug/L	5.0 10/13/	10/13/07#: CLP SOM01-2 V
156-59-2	cjs-1,2-Dichloroethene	5.0 U	ug/L	5.0 10/13/0	07 10/13/07 CLP SOM01.2 V

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Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Sample ID: <u>RP-TB-04</u>

Station ID:

Lab ID: <u>C074201-19</u>

Matrix: Trip Blank - Water

Contract Lab Case: 36903 MD No:

D No: 46T6 SHEALY

Date Collected: 10/11/07 14:00

CAS Number	Analyte	Results Ounliflers	Units	MRL	Prenared	Anábzed	Method
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
110-82-7	Cyclohexane	5.0 U	ug/L	5,0	\$10/13/07	10/13/07	CLP SOM01-2-V
124-48-1	Dibromochloromethane	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75:71-8	Dichlorodifluoromethane	:	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
98-82-8	Isopropylbenzene	5:0:Ui	ting/L	5.0.	10/13/07	10/13/07	CLP;SOM01-2;V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
591-78-6	Methyl Butyl Ketone	-10 U	ug/L ₆	10	10/13/07	10/13/07	CLP SOM01.2 V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/13/07	10/13/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10.U	ug/L	<u>,</u> 10	10/13/07	10/13/07	CLP.SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
108-87-2	Methylcyclohexane	50 U	tsund a ug/L+t	5:0	10/13/07	10/13/07	CLP.SOM0121V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
95-47-6	o-Xylene	5:0 : U	≝∵_ug/L_	5:0	10/13/07	10/13/07	CLP.SOM01.2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)	<u>50</u> U	us ug/L	5.0	10/13/07	10/13/07	CLP SOM012 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
156-60-5	trans-1-2-Dichloroethene	45:0 USP	ug/L	5:0#	10/13/07	10/13/07	CLP SOM01 2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	5.0 U (15	r o Lug/L	5.0	10/13/07	10/13/07	CLP SOM012 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/13/07	10/13/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	≠> 5.0 U ₂	ug/L	5.0	h:10/13/07	10/13/07	CLP SOM01.2 V
Tentatively I	dentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/13/07	10/13/07	CLP SOM01.2 V



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No:

D No: 46S9 SHEALY

Sample ID: <u>RP-TB-01</u> Station ID: Lab ID: <u>C074201-20</u>

Matrix: Trip Blank - Water

Date Collected: 10/8/07 17:30

CAS Number	Analyte	Results	Qualifiers Units	MRL	Prepared	Analyzed	Method	
R4-7156	(m=and/or p=)Xylener (see	50	U	1125.0	10/12/07	10/12/07	CLP SOM01	2V.
71-55-6	1,1,1-Trichloroethane	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01	.2 V
79-34-5 🕈	1,1,2,2-Tetrachloroethane	5.0	Uug/L	5.0	10/12/07	10/12/07	CLP SOM01	2 V
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroe (Freon 113)	thane 5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01	.2 V
79-00-5	l,1,2-Trichloroethane	5.0	U A Aller (Cruug/L	5:0	<u>10/12/07</u> 로	10/12/07	CLP SOM0	2.V
75-34-3	1,1-Dichloroethane	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01	.2 V
75-35-4	1-1-Dichloroethene (1,1-Dichloroethylene)	5.0	U ug/L	5.0	10/12/07_7	10/12/07	CLP SOM0	2.V
87-61-6	1,2,3-Trichlorobenzene	5.0	U, R, CLP06 ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V
120-82-1	1,2,4-Trichlorobenzene	5.0	U ^t ug∕L	5.0	10/12/07	10/12/07	CLP SOM01	1.2 V
96-12-8	·1,2-Dibromo-3-Chloropropane	(DBCP) 5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	.2 V
106-93-4:49	1,2-Dibromoethane (EDB)	5.0 Set	U 2. Main ug/L		± 10/12/07	10/12/07	CLP, SOMO	.2 V
95-50-1	1,2-Dichlorobenzene	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	.2 V
107-06-2	1,2-Dichloroethane	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01	2 V
78-87-5	1,2-Dichloropropane	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	.2 V
541-73-1	13-Dichlorobenzenes	5:0	U n X ug/L	5.0	10/12/07/	>10/12/07	CLP SOM0	2 V
106-46-7	1,4-Dichlorobenzene	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01	.2 V
123-91-1	1,4-Dioxane	100	U, R, CLP07, ug/L	Si 100	10/12/07	10/12/07	CLP SOM01	.2 V ⇒4 č
- And S			QC-3 +************************************	i de la	- MARK	de plan i		1925
67-64-1	Acetone	10	U ug/L	10	10/12/07	10/12/07	CLP SOM01	1.2 V
71-43-2	Benzene	5.0	U ug/L	25 0 7(5:0	10/12/07	10/12/07	CLP SOM01	.2 V
74-97-5	Bromochloromethane	. 5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM01	1.2 V
75-27-4	Bromodichloromethane	5:0	U ug/L	30 55 5.0	10/12/07	10/12/07	CLPSOMO	1.2.V
75-25-2	Bromoform	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V
74-83-9	Bromomethane	5.0	U ug/L	*** 5.0	10/12/07	10/12/07	CLP SOMO	1.2 V
75-15-0	Carbon disulfide	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V
56-23-5 Ma	Carbon Tetrachloride	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V 12/26
108-90-7	Chlorobenzene	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V
75-00-3	Chloroethane	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V
67-66-3	Chloroform	5.0	U ug/L	5.0	10/12/07	10/12/07	CLP SOM0	1.2 V
74-87-3	Chloromethane	4. Sec = 5.0	U aug/L	5.0	10/12/07	10/12/07	CERSOMO	1.2 V

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C074201 FINAL



Volatile Organics

Project: 08-0029, Red Panther Chemical Co

Contract Lab Case: 36903 MD No:

Sample ID: <u>RP-TB-01</u> Station ID: Lab ID: <u>C074201-20</u>

Matrix: Trip Blank - Water

D No: 46S9 SHEALY

Date Collected: 10/8/07 17:30

CAS		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		1. en 2. et 2000 (1990) Se Carron (1990) -		entre province (H	ACT STATE
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
156-59-2	cis-1,2-Dichloroethene	5.0 U	ug/L	×~5.0	10/12/07	10/12/07	CLP SOM01.2 V
10061-01-5	cis-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
110-82-7 👾 🖓 👾	Cyclohexane	carta 50.U	ug/L	5.0	10/12/07	10/12/07	TCLP SOM01.2 V
124-48-1	Dibromochloromethane	5.0 U ·	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-71-8	Dichlorodifluoromethane	5:0 U, J, QC-1	ug/L 👯	5.0	10/12/07	10/12/07	CLP SOM01.2 V
100-41-4	Ethyl Benzene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
98-82-8	slsopropylbenzene	5.0 U 🖓 🖓	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-20-9	Methyl Acetate	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
591-78-6 mete	Methyl Butyl Ketone	" 10 U	ug/L 👘 🖉	10	10/12/07	10/12/07	CLP.SOM01.2-V
78-93-3	Methyl Ethyl Ketone	10 U	ug/L	10	10/12/07	10/12/07	CLP SOM01.2 V
108-10-1	Methyl Isobutyl Ketone	10 U, J, CLP07	eθ ug/L ⊙ _{engl} us		10/12/07	10/12/07	CEP SOM01.2 V
1634-04-4	Methyl T-Butyl Ether (MTBE)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
108-87-2.	Methylcyclohexane	5.0 U	ug/L	5.0	10/12/07-	10/12/07	CLP SOM01.2 V
75-09-2	Methylene Chloride	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
95-47-6	o-Xylene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01 2 V
100-42-5	Styrene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
127-18-4	Tetrachloroethene (Tetrachloroethylene)		ug/L	5.0	10/12/07	10/12/07	CUPSOM01.2 V
108-88-3	Toluene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
156-60-5	trans-1,2-Dichloroethene	510 U	ug/L - _{Print}	5.0	10/12/07	10/12/07	CLP SOM01-2 V
10061-02-6	trans-1,3-Dichloropropene	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
79-01-6	Trichloroethene (Trichloroethylene)	510 U	ug/L	. >5.0	10/12/07	10/12/07	CEP SOM01.2 V
75-69-4	Trichlorofluoromethane (Freon 11)	5.0 U	ug/L	5.0	10/12/07	10/12/07	CLP SOM01.2 V
75-01-4	Vinyl chloride	35.0 U	ug/L Set	5.0	10/12/07	10/12/07	CLP SOM01.2 V
Tentatively Id	lentified Compounds:						
R4-0000	Tentatively Identified Compounds	5 U	ug/L	5	10/12/07	10/12/07	CLP SOM01.2 V



ANALYTICAL REPORT

Job Number: 680-31009-1

SDG Number: 31009

Job Description: Red Panther Chemical Site - Clarksdale,

For: TN & Associates 1220 Kennestone Circle Suite D Marietta, GA 30066

Attention: Ms. Allyson Warrington

TERRY Honsly

Terry Hornsby Project Manager I terry.hornsby@testamericainc.com 10/31/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc. TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404 Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



METHOD SUMMARY

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Description	Lab Location	Method	Preparation Method
Matrix Water			
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS Determination of Semivolatile Organic Compounds in	TAL SAV TAL SAV	EPA 525.2	EPA 525.2
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography EDB, DBCP, and 123TCP in Water by Microextraction	TAL SAV TAL SAV	EPA-01 504.1	EPA-DW 504.1
Chlorinated Pesticides in Water by GC/ECD Separatory funnel extraction for method 508	TAL SAV TAL SAV	EPA 508	EPA 508
Chlorinated Acids in Water by Gas Chromatography Chlorinated Acids in Water by Gas Chromatography	TAL SAV TAL SAV	EPA-01 515.1	EPA-DW 515.1
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography Continuous Liquid-Liquid Extraction	TAL SAV TAL SAV	SW846 8081A_	_8082 SW846 3520C
ICP Metals by 200.7 200 Series Drinking Water Prep Determination Step	TAL SAV TAL SAV	EPA 200.7 Rev	4.4 EPA 200
ICPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step	TAL SAV TAL SAV	EPA 200.8	EPA 200
Cyanide, Total (Semi-Automated Colorimetry) Distillation/Cyanide	TAL SAV TAL SAV	MCAWW 335.4	t Distillation

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-31009-1TB	RP₋TB-02	Drinking Water	10/09/2007 0000	10/11/2007 0925
680-31009-2	RP-MW-04	Drinking Water	10/09/2007 1530	10/11/2007 0925

TestAmerica Savannah

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Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Client Sample ID:	RP-TB-02			··· · ····
Lab Sample ID: Client Matrix:	680-31009-1TB Drinking Water	. · · · ·	Date Sampled: Date Received:	10/09/2007 0000 10/11/2007 0925
· ·	524.2 Pu	rgeable Organic Compounds in Wa	ter by GC/MS	
Mathad	624.2	Analysia Bataby 690, 99630		MAC Valatilas 11

Method:	524.2	Analysis Batch: 680-88630	Instrument ID:	GC/MS Volatiles - U
Preparation:	N/A		Lab File ID:	u6858.d
Dilution:	1.0		Initial Weight/Volu	ume: 5 mL
Date Analyzed:	10/17/2007 1346		Final Weight/Volu	ime: 5 mL
Date Prepared:	N/A		-	

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Chlorobenzene	0.50	U	0.19	0.50	
cis-1,2-Dichloroethene	0.50	U	0.25	0.50	
1,2-Dichlorobenzene	0.50	U	0.23	0.50	
1,4-Dichlorobenzene	0.50	U	0.17	0:50	
1,1-Dichloroethene	0.50	U-	0.24	0.50	
1,2-Dichloropropane	0.50	U	0.22	0.50	
Ethylbenzene	0.50	U	0.18	0.50	
Methylene Chloride	0.50	U	0.21	0.50	
Tetrachloroethene	0.50	U	0.22	0.50	
Toluene	0.50	U ·	0.21	0.50	
trans-1,2-Dichloroethene	0.50	U.	0.22	0.50	
1,2,4-Trichlorobenzene	× 0.50	Ú	0.10	0.50	
1,1,1-Trichloroethane	0.50	U	0.16	0.50	
Vinyl chloride	0.50	U	0.29	0.50	
Xylenes, Total	0.50	ປ	0.44	0.50	
1,2-Dichloroethane	0.50	U	0.19	0.50	
Carbon tetrachloride	0.50	U	0.38	0.50	
Trichloroethene	0.50	U	0.20	0.50	
1,1,2-Trichloroethane	0.50	U	0.25	0.50	
Benzene	0.50	ບ	0.19	0.50	
Styrene	0.50	U	0.30	0.50	
Surrogate	%Rec		Accep	tance Limits	
1,2-Dichlorobenzene-d4	85		70 -	130	
4-Bromofluorobenzene	84		70 -	130	

,

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Client Sample ID): RP-MW-04					
Lab Sample ID: Client Matrix:	680-31009-2 Drinking Water			Date Sampled	: 10/09/2007 1530 3: 10/11/2007 0925	
	524.2 Pi	urgeable Organic Compounds ir	n Water by	GC/MS	· · ·	
Method:	524.2	Analysis Batch: 680-88630	I	nstrument ID:	GC/MS Volatiles - U	
Preparation:	N/A		L	ab File ID:	u6859.d	
Dilution:	1.0		1	nitial Weight/Volu	me: 5 mL	
Date Analyzed:	10/17/2007 1405		Ē	inal Weight/Volur	ne: 5 mL	
Date Prepared:	N/A			0		
Analyte		Result (ug/L)	Qualifier	r MDL	RL	
Chlorobenzene		0.50	U	0.19	0.50	
cis-1,2-Dichloroet	thene	0.50	U	0.25	0.50	
1,2-Dichlorobenz	ene	, 0.50	υ	0.23	0.50	
1,4-Dichlorobenz	ene	0.50	U	0.17	0.50	
1,1-Dichloroether	ne	0.50	U,	0.24	0.50	
1,2-Dichloropropa	ane	0.50	U	0.22	0.50	
Ethylbenzene		0.50	U	0.18	0.50	
Methylene Chlori	de	0.50	U	0.21	0.50	
Tetrachloroethen	e	0.50	U	0.22	0.50	
Toluene		0.50	U	0.21	0.50	
trans-1,2-Dichlor	oethene	0.50	U	0.22	0.50	
1,2,4-Trichlorobe	nzene	0.50	U	0.10	0.50	
1,1,1-Trichloroet	hane	0.50	U	0.16	· 0.50	
Vinyl chloride		0.50	U	0.29	0.50	
Xylenes, Total		0.50	U	0.44	0.50	
1,2-Dichloroetha	ne	0.50	U	0.19	0.50	
Carbon tetrachio	ride	0.50	U	0.38	0.50	
Trichloroethene		0.50	U	0.20	0.50	
1,1,2-Trichloroet	hane	0.50	U	0.25	0.50	
Benzene		0.50	U	0.19	0.50	
Styrene		0.50	U	0.30	0.50	
Surrogate		, %Rec		Acc	eptance Limits	
1,2-Dichloroben	zene-d4	86		70	- 130	
4-Bromofluorobe	nzene	84		. 70	- 130	

TestAmerica Savannah

Job Number: 680-31009-1

Client: TN & Associates

Client Sample ID: RP-MW-04 Sdg Number: 31009 Lab Sample ID: 680-31009-2 Date Sampled: 10/09/2007 1530 Client Matrix: Drinking Water Date Received: 10/11/2007 0925

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method:	525.2	Analysis Batch: 680-88317	Instrument ID:	Mass S	Spec LC - R
Preparation:	525.2	Prep Batch: 680-88135	Lab File ID:	R4330	. D ·
Dilution:	1.0		Initial Weight/Vol	lume:	1005 mL
Date Analyzed:	10/12/2007 1729		Final Weight/Vol	ume:	1 mL
Date Prepared:	10/12/2007 0942		Injection Volume		1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Alachlor	0.20	U	0.060	0.20	
Atrazine	0.20	U	0.043	0.20	
Simazine	0.50	U	0.076	0.50	
Benzojajpyrene	0.20	U	0.025	0.20	
Bis(2-ethylhexyl) phthalate	0.87	J	0.50	2.0	
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5	
Endrin	0.50	U	0.12	0.50	
Hexachlorobenzene	0.20	U	0.032	0.20	
Hexachlorocyclopentadiene	2.0	U	0.056	2.0	
Surrogate	%Rec		Acceptance Limits		
Triphenylphosphate	106		70 - 1	30	
2-Nitro-m-xylene	113		70 - 1	30	
Pervlene-d12	86		. 70 - 1	30	

Job Number: 680-31009-1

Client: TN & Associates

Sdg Number: 31009 **Client Sample ID:** RP-MW-04 10/09/2007 1530 Lab Sample ID: 680-31009-2 Date Sampled: **Client Matrix: Drinking Water** Date Received: 10/11/2007 0925 504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography GC SemiVolatiles - X Method: 504.1 Analysis Batch: 680-88440 Instrument ID: xj150042.d Preparation: 504.1 Prep Batch: 680-88289 Lab File ID: Dilution: Initial Weight/Volume: 37.01 mL 1.0 Final Weight/Volume: 10/15/2007 1946 2 mL Date Analyzed: Date Prepared: 10/15/2007 1030 Injection Volume: 1 uL Column ID: PRIMARY Analyte Qualifier MDL RL Result (ug/L)

			=		
1,2-Dibromo-3-Chloropropane	0.019	U *	0.0033	0.019	
Ethylene Dibromide	0.019	υ	0.0040	0.019	
Surrogate	%Rec		Acceptance Limits		
1,2,3-Trichloropropane-(Surr)	112	70 - 130			

TestAmerica Savannah

Client: TN & Associates

Date Analyzed:

Date Prepared:

10/15/2007 2300

10/15/2007 0850

Job Number: 680-31009-1 Sdg Number: 31009

2.5 mL

1 uL

Final Weight/Volume:

Injection Volume:

Client Sample ID:	RP-MW-04			
Lab Sample ID:	680-31009-2		Date Sampled:	10/09/2007 1530
Client Matrix:	Drinking Water		Date Received	: 10/11/2007 0925
		Chlorinated Pesticides in Water by	GC/ECD	•
Method:	508	Analysis Batch: 680-88394	Instrument ID: G	GC SemiVolatiles - M
Preparation:	508	Prep Batch: 680-88279	Lab File ID: m	nj15027.d
Dilution:	1.0		Initial Weight/Volum	ne: 500 mL

		Column ID:		PRIMARY	
Analyte	Result (ug/L)	Qualifier	MDL	RL	
Chlordane (technical)	0.25	U	0.026	0.25	
PCB-1016	0.50	U	0.067	0.50	
PCB-1221	0.50	U	0.096	0.50	
PCB-1232	0.50	U	0.052	0.50	
PCB-1242	0.50	U	0.086	0.50	
PCB-1248	0.50	U	0.052	0.50	
PCB-1254	0.50	U	0.057	0.50	
PCB-1260	0.50	U	0.046	0.50	
Toxaphene	2.5	U ·	0.25	2.5	
Polychlorinated biphenyls, Total	0.50	υ	0.096	0.50	
Surrogate	%Rec		Ac	ceptance Limits	
DCB Decachlorobiphenyl	. 106		7	0 - 130	
Tetrachloro-m-xylene	97		7	0 - 130	

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1.

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Client Sample ID:	RP-MW-04					
Lab Sample ID: Client Matrix:	680-31009-2 Drinking Water		C	Date Sampled: Date Received:	10/09/2007 1530 10/11/2007 0929). 5
	515.1 Ch	lorinated Acids in Water by Ga	s Chromatogra	aphy		
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	515.1 515.1 1.0 10/16/2007 2220 10/15/2007 0754	Analysis Batch: 680-88469 Prep Batch: 680-88269	Instru Lab F Initial Final Inject Colur	iment ID: G ile ID: sj Weight/Volum Weight/Volum tion Volume: mn ID:	C SemiVolatiles - S 16021.d le: 500 mL e: 5 mL 1 uL PRIMARY	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
Pentachloropheno	I	1.0	U	0.025	1.0	
Surrogate		%Rec	·	Accer	otance Limits	
2,4-Dichloropheny	lacetic acid	127	u annual frankrike in anna dat	70 -	130	
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Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Client Sample ID:	RP-MW-04		-
Lab Sample ID:	680-31009-2	Date Sampled:	10/09/2007 1530
Client Matrix:	Drinking Water	Date Received:	10/11/2007 0925

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method:	8081A_8082	Analysis Batch: 680-88389	Instrument ID: GC Se	miVolatiles - M
Preparation:	3520C	Prep Batch: 680-88126	Lab File ID: mj150	20.d
Dilution:	1.0		Initial Weight/Volume:	1060 mL
Date Analyzed	10/15/2007 2045		Final Weight/Volume:	10 mL
Date Prepared:	10/12/2007 1205		Injection Volume:	2 uL
		· · · · ·	Column ID: PRIM	MARY

Analyte	Result (ug/L)	Qualifier	MDL	RL	
4,4'-DDD	0.094	U	0.0056	0.094	
4,4'-DDE	0.094	U	0.0092	0.094	·
4,4'-DDT	0.094	U	0.014	0.094	
Aldrin	0.047	U	0.0057	0.047	
alpha-BHC	0.047	U	0.0076	0.047	
beta-BHC	0.047	U	0.0077	0.047	
Chlordane (technical)	0.47	U	0.046	0.47	
delta-BHC	0.047	U	0.0065	0.047	
Dieldrin	0.094	U	0.0074	0.094	
Endosulfan I	0.047	U	0.0052	. 0.047	
Endosulfan II	0.094	U	0.0047	0.094	
Endosulfan sulfate	0.094	U	0.0066	0.094	
Endrin	0.094	U	0.0074	0.094	
Endrin aldehyde	. 0.094	U	0.0085	0.094	
Endrin ketone	0.094	U	0.0086	0.094	
gamma-BHC (Lindane)	0.047	U	0.0056	0.047	
Heptachlor	0.047	U	0.0042	0.047	
Heptachlor epoxide	0.047	U	0.0066	0.047	
Methoxychlor	0.47	U	0.022	0.47	
Toxaphene	4.7	U	1.2	4.7	
Surrogate	%Rec		Accept	ance Limits	
DCB Decachlorobiphenyl	79		14 - 1	15	
Tetrachloro-m-xvlene	57		35 - 1	20	

Job Number: 680-31009-1 Sdg Number: 31009

Client: TN & Associates

Client Sample ID: RP-MW-04

Lab Sample ID. Client Matrix:	680-31009-2 Drinking Water		Dat Dat	e Sampled:	10/09/2007 1 10/11/2007 0	530 925
		200.7 Rev 4.4 ICP Metals by	200.7			
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 10/15/2007 1800 10/11/2007 1656	Analysis Batch: 680-88457 Prep Batch: 680-88095	Instrum Lab File Initial W Final W	ent ID: ID: /eight/Volume: eight/Volume:	ICP/AES N/A 50 mL 50 mL	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
Aluminum Iron Silver Calcium Copper Manganese Nickel Zinc		200 260 10 24000 54 48 40 100	U U U	28 26 0.70 25 2.2 2.2 2.2 2.0 4 7	200 50 10 500 20 10 40 20	
		200.8 ICPMS Metals by 2	00.8			
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 10/18/2007 1900 10/11/2007 1711	Analysis Batch: 680-88946 Prep Batch: 680-88097	Instrum Lab Fik Initial V Final W	eent ID: e ID: Veight/Volume: /eight/Volume:	ICP MS N/A 50 mL 50 mL	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
Antimony Barium Beryllium Cadmium Chromium Copper Lead Mercury Thallium Method: Preparation: Dilution:	200.8 200 1.0	0.15 110 0.40 0.082 1.4 56 39 0.099 0.20 Analysis Batch: 680-88946 Prep Batch: 680-88097	J U J B B J B J B U U Instrum Lab Fil Initial V	0.082 0.52 0.12 0.058 0.24 0.26 0.054 0.054 0.044 0.096 ment ID: le ID: Weight/Volume:	0.50 2.0 0.40 0.10 1.0 1.0 0.30 0.10 0.20 ICP MS N/A 50 ml	
Date Analyzed: Date Prepared:	10/22/2007 1425 10/11/2007 1711		Final V	Veight/Volume:	50 mL	

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Arsenic Selenium	1.0 0.61	U	0.32 0.16	1.0 0.50	

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

General Chemistry							
Client Sample ID:	RP-MW-04						
Lab Sample ID: Client Matrix:	680-31009-2 Drinking Water			,	Date Sampled: Date Received:	10/0 10/1	09/2007 1530 1/2007 0925
Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.010 Anly Batch: 680-8826 Prep Batch: 680-8811	U 2 Date Analy: 8 Date Prepa	mg/L zed 1 ired: 1	0.0050 0/12/2007 1409 0/12/2007 0801	0.010	1.0	335.4

TestAmerica Savannah

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DATA REPORTING QUALIFIERS

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J .	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA	,	
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
. •	F	RPD of the MS and MSD exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

TestAmerica Savannah

Quality Control Results

Job Number: 680-31009-1 Sdg Number: 31009

Client: TN & Associates

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
LCS 680-88630/3		91	98
MB 680-88630/4		91	89
680-31009-1	RP-TB-02	85	84
680-31009-2	RP-MW-04	86	84

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

TestAmerica Savannah

Quality Control Results

Job Number: 680-31009-1 Sdg Number: 31009

Client: TN & Associates

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Client Matrix: Water

Lab Sample ID	Client Sample ID	2NMX %Rec	PD12 %Rec	TPP %Rec
LCS 680-88135/7-A		107	85	99
MB 680-88135/6-A		108	82	105
680-31009-2	RP-MW-04	113	86	106

Surrogate		Acceptance Limit		
2NMX	2-Nitro-m-xylene	70 - 130		
PD12	Perylene-d12	70 - 130		
TPP	Triphenylphosphate	70 - 130		
Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCP1 %Rec	TCP2 %Rec
LCS 680-88289/5-A			113
LCSD 680-88289/6-A		109	
MB 680-88289/4-A			94
680-31009-2	RP-MW-04		112

Surrogate		Acceptance Limits
TCP	1,2,3-Trichloropropane-(Surr)	70 - 130

Client: TN & Associates

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water DCB1 DCB2 TCX2 Lab Sample ID **Client Sample ID** %Rec %Rec %Rec LCS 680-88279/8-A 107 99 MB 680-88279/6-A 114 103 680-31009-2 RP-MW-04 106 97

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
тсх	Tetrachloro-m-xylene	70 - 130

Job Number: 680-31009-1 Sdg Number: 31009

Job Number: 680-31009-1 Sdg Number: 31009

Client: TN & Associates

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
LCS 680-88269/16-A			108
LCSD 680-88269/17-C			109
MB 680-88269/15-A			118
680-31009-2	RP-MW-04	127	

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

<u>Client Matrix: _ Water</u>					
Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX2 %Rec	
LCS 680-88126/7-A		73		64	
MB 680-88126/6-A			79	57	
680-31009-2	RP-MW-04		79	57	

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	14 - 115
тсх	Tetrachloro-m-xylene	35 - 120

Job Number: 680-31009-1 Sdg Number: 31009

Method: 524.2 Preparation: N/A

Instrument ID: GC/MS Volatiles - U Lab File ID: uq2290.d Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL	
Chlorobenzene	0.50	U	0.19	0.50	
cis-1,2-Dichloroethene	0.50	U	0.25	0.50	
1,2-Dichlorobenzene	0.50	U	0.23	0.50	
1,4-Dichlorobenzene	0.50	υ	0.17	0.50	
1,1-Dichloroethene	0.50	U	0.24	0.50	
1,2-Dichloropropane	0.50	U	0.22	0.50	
Ethylbenzene	0.50	់ប	0.18	0.50	`
Methylene Chloride	0.50	U	0.21	0.50	
Tetrachloroethene	0.50	U	. 0.22	0.50	
Toluene	0.50	ប	0.21	0.50	
trans-1,2-Dichloroethene	0.50	U	0.22	0.50	
1,2,4-Trichlorobenzene	0.50	·U	0.10	0.50	
1,1,1-Trichloroethane	0.50	ΰ	0.16	0.50	
Vinyl chloride	0.50	U	0.29	0.50	
Xylenes, Total	0.50	U	0.44	0.50	
1,2-Dichloroethane	0.50	U	0.19	0.50	
Carbon tetrachloride	0.50	U	0.38	0.50	
Trichloroethene	0.50	U	0.20	0.50	
1,1,2-Trichloroethane	0.50	U	0.25	0.50	
Benzene	0.50	U	0.19	0.50	
Styrene	0.50	· U	0.30	0.50	
Surrogate	% Rec		Acceptance Limit	S .	
1,2-Dichlorobenzene-d4	91		70 - 130		
4-Bromofluorobenzene	89		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Analysis Batch: 680-88630

Prep Batch: N/A

Units: ug/L

Client: TN & Associates

.

Method Blank - Batch: 680-88630

Lab Sample ID:MB 680-88630/4Client Matrix:WaterDilution:1.0Date Analyzed:10/17/2007Date Prepared:N/A

Job Number: 680-31009-1 Sdg Number: 31009

Method: 524.2 Preparation: N/A

Instrument ID: GC/MS Volatiles - U Lab File ID: uq2289.d Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chlorobenzene	20.0	19.7	98	70 - 130	
cis-1,2-Dichloroethene	20.0	19.8	99	70 - 130	
1,2-Dichlorobenzene	20.0	17.4	87	70 - 130	
1,4-Dichlorobenzene	20.0	17.2	86	70 - 130	
1,1-Dichloroethene	20.0	19.9	100	70 - 130	
1,2-Dichloropropane	20.0	20.7	104	70 - 130	
Ethylbenzene	20.0	18.5	93	70 - 130	
Methylene Chloride	20.0	19.7	99	70 - 130	
Tetrachloroethene	20.0	20.0	100	70 - 130	
Toluene	20.0	19.8	99	70 - 130	
trans-1,2-Dichloroethene	20.0	20.2	101	70 - 130	
1,2,4-Trichlorobenzene	20.0	18.5	92	70 - 130	
1,1,1-Trichloroethane	20.0	18.9	95	70 - 130	
Vinyl chloride	20.0	19.4	97	70 - 130	
Xylenes, Total	60.0	54.4	91	70 - 130	
1,2-Dichloroethane	20.0	20.6	103	70 - 130	
Carbon tetrachloride	20.0	17.8	89	70 - 130	
1,1,2-Trichloroethane	20.0	20.2	101	70 - 130	
Benzene	20.0	20.5	103	70 - 130	
Styrene	20.0	18.0	90 `	70 - 130	
Surrogate	% F	Rec	· Ac	ceptance Limits	
1,2-Dichlorobenzene-d4	91			70 - 130	
4-Bromofluorobenzene	98	3		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Control Spike - Batch: 680-88630

Lab Sample ID:LCS 680-88630/3Client Matrix:WaterDilution:1.0Date Analyzed:10/17/2007Date Prepared:N/A

Analysis Batch: 680-88630 Prep Batch: N/A Units: ug/L

Job Number: 680-31009-1 Sdg Number: 31009

Method: 525.2 Preparation: 525.2

Lab Sample ID:	MB 680-88135/6-A	Analysis Batch: 680-88317	Instrument ID: Mass Spec LC - R
Client Matrix:	Water	Prep Batch: 680-88135	Lab File ID: R4324.D
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	10/12/2007 1514		Final Weight/Volume: 1 mL
Date Prepared:	10/12/2007 0942		Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Alachlor	0.20	U	0.060	0.20
Atrazine	0.20	U	0.043	0.20
Simazine	0.50	U	0.076	0.50
Benzo[a]pyrene	0.20	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	2.0	U	0.50	2.0
Di(2-ethylhexyl)adipate	1.5	Ū	0.50	1.5
Endrin	0.50	Ū	0.12	0.50
Hexachlorobenzene	0.20	Ŭ	0.032	0.20
Hexachlorocyclopentadiene	2.0	Ŭ	0.056	2.0
Surrogate	% Rec		Acceptance Limits	
Triphenylphosphate	105		70 - 130	
2-Nitro-m-xylene	108		70 - 130	
Pervlene-d12	82		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88135

Job Number: 680-31009-1 Sdg Number: 31009

Lab Control Spike - Batch: 680-88135

Method: 525.2 Preparation: 525.2

Lab Sample ID:	LCS 680-88135/7-A	Analysis Batch: 680-88317		Instrument ID: Mass Spec LC - R
Client Matrix:	Water	Prep Batch: 680-88135		Lab File ID: R4325.D
Dilution:	1.0	Units: ug/L	· ·	Initial Weight/Volume: 1000 mL
Date Analyzed:	10/12/2007 1536			Final Weight/Volume: 1 mL
Date Prepared	10/12/2007 0942	•		Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alachlor	5.00	4.26	85	70 - 130	
Atrazine	5.00	4.80	96	70 - 130	
Simazine	5.00	4.51	90	70 - 130	
Benzolajpyrene	5.00	4.12	82	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.71	94	70 - 130	
Di(2-ethylhexyl)adipate	5.00	4.70	94	70 - 130	
Endrin	5.00	4.57	91	70 - 130	
Hexachlorobenzene	5.00	4.13	83	70 - 130	
Hexachlorocyclopentadiene	5.00	4.96	99	70 - 130	
Surrogate	% F	Rec	Ac	ceptance Limits	
Triphenylphosphate	99)		70 - 130	
2-Nitro-m-xylene	10)7		70 - 130	
Perylene-d12	85	5		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Method Blank - Batch: 680-88289			Me Pr	eparation: 504.1	4.1	
Lab Sample ID:MB 680-88289/4-AClient Matrix:WaterDilution:1.0Date Analyzed:10/15/2007Date Prepared:10/15/2007	Analysis Batch: Prep Batch: 68 Units: ug/L	680-88440 30-88289	Ins La Ini Fir Inj Co	strument ID: GC b File ID: xj1 tial Weight/Volu nal Weight/Volu ection Volume: blumn ID:	SemiVolatile 50019.d ime: 35 mL me: 2 mL 1 uL PRIMARY	es - X
Analyte	Resu	ult C	Qual	MDL	RL	
1,2-Dibromo-3-Chloropropane Ethylene Dibromide	0.020 0.020	0 L 0 L	1	0.0035 0.0042	0.020 0.020	
Surrogate	% 6	Rec	ŀ	Acceptance Lim	its	
1,2,3-Trichloropropane-(Surr)	94	4		70 - 130		
Lab Control Spike/ Lab Control Spike Duplicate Recover	ry Report - Batch	ו: 680-88289	M P	ethod: 504.1 reparation: 50	04.1	
LCS Lab Sample ID: LCS 680-88289/5-AClient Matrix:WaterDilution:1.0Date Analyzed:10/15/2007 1702Date Prepared:10/15/2007 1030	Analysis Batc Prep Batch: Units: ug/L	ch: 680-88440 680-88289	Insi Lat Init Fin Inje Col	trument ID: Go File ID: xj ial Weight/Volur al Weight/Volur action Volume: lumn ID:	C SemiVolatil 150020.d me: 35 m ne: 2 mL 1 uL PRIMARY	es - X L
LCSD Lab Sample ID: LCSD 680-88289/6-AClient Matrix:WaterDilution:1.0Date Analyzed:10/15/2007 1709Date Prepared:10/15/2007 1030	Analysis Bato Prep Batch: Units: ug/L	ch: 680-88440 680-88289	Ins Lai Init Fin Inje Co	trument ID: 0 b File ID: xj1 ial Weight/Volur al Weight/Volur ection Volume: Jumn ID:	GC SemiVola 50021.d me: 35 mL ne: 2 mL 1 uL PRIMARY	tiles - X
Analyte	<u>% Rec.</u> LCS LCS	SD Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dibromo-3-Chloropropane Ethylene Dibromide	111 133 105 101	70 - 130 70 - 130	18 4	30 30		*
Surrogate	LCS % I	Rec LCSD	% Rec	Accep	otance Limits	
1,2,3-Trichloropropane-(Surr)	113	109		7	0 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-31009-1 Sdg Number: 31009

Method: 508 Preparation: 508

Instrument ID: GC SemiVolatiles - M Lab File ID: mj15021.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 5 mL Injection Volume: 1 uL Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	0.25	U	0.026	0.25
PCB-1016	0.50	U	0.067	0.50
PCB-1221	0.50	. U	0.096	0.50
PCB-1232	0.50	Ū	0.052	0.50
PCB-1242	0.50	U [,]	0.086	0.50
PCB-1248	0.50	Ū	0.052	0.50
PCB-1254	0.50	U	0.057	0.50
PCB-1260	0.50	U	0.046	0.50
Toxaphene	2.5	U	0.25	2.5
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50
Surrogate	% Rec		Acceptance Limits	,
DCB Decachlorobiphenyl	114		70 - 130	

103

Lab Control Spike - Batch: 680-88279

Tetrachloro-m-xylene

Method: 508 Preparation: 508

70 - 130

Lab Sample ID:LCS 680-88279/8-AClient Matrix:WaterDilution:1.0Date Analyzed:10/15/20072143Date Prepared:10/15/20070850		Analysis Batch: Prep Batch: 68 Units: ug/L	680-88394 0-88279	Instrument ID: GC SemiVolatiles - M Lab File ID: mj15023.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 5 mL Injection Volume: 1 uL Column ID: PRIMARY				
Analyte		Spike Amount	Result	% Rec.	Limit	Qual		
PCB-1016		10.0	11.9	119	70 - 130			
PCB-1260		10.0	12.2	122	70 - 130			
Surrogate		% R	ec	Ac	ceptance Limits			
DCB Decachlo	robiphenyl	10	7		70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88279

Lab Sample ID: MB 680-88279/6-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/15/2007 2104

Date Prepared: 10/15/2007 0850

Analysis Batch: 680-88394 Prep Batch: 680-88279 Units: ug/L

70 - 130

Job Number: 680-31009-1 Sdg Number: 31009

Method Blank -	Batch: 680-88269					Method: 515.1 Preparation: 51	5.1	
Lab Sample ID: MI Client Matrix: W Dilution: 1.1 Date Analyzed: 10	B 680-88269/15-A ater 0 //16/2007 1703	Analysis Prep Ba Units: 1	Batch: 680- tch: 680-882 ug/L	88469 69		Instrument ID: GC Lab File ID: sj1 Initial Weight/Volu Final Weight/Volu	C SemiVo 6006.d ime: 100 me: 10	olatiles - S 0 mL mL
Date Prepared: 10						Injection Volume: Column ID:	ו 1 PRIMAF	IL XY
Analyte			Result		Qual	MDL	I	٦L
Pentachloropheno			1.0		U	0.025	1	.0
Surrogate			% Rec			Acceptance Lim	its	
2,4-Dichloropheny	lacetic acid		118			70 - 130		
Lab Control Sp Lab Control Sp	ike/ ike Duplicate Recovery	Report	Batch: 680)-88269		Method: 515.1 Preparation: 5	15.1	
LCS Lab Sample I Client Matrix:	ID: LCS 680-88269/16-A · Water 1.0	Analy Prep I Units:	sis Batch: 68 Batch: 680-8	0-88469 8269		Instrument ID: G Lab File ID: sj	C SemiV 16007.d	olatiles - S
Date Analyzed: Date Prepared:	10/16/2007 1724 10/15/2007 0754				.*	Final Weight/Volur Injection Volume: Column ID:	me: 1 1 PRIM	0 mL uL ARY
LCSD Lab Sample Client Matrix:	e ID: LCSD 680-88269/17-C Water	Analy Prep	sis Batch: 68 Batch: 680-8	0-88469 8269		Instrument ID: Lab File ID: sj10	GC Sem 6008.d	Volatiles - S
Dilution: Date Analyzed: Date Prepared:	1.0 10/16/2007 1745 10/15/2007 0754	Units	ug/L		·	Initial Weight/Volu Final Weight/Volu Injection Volume:	me: 10 me: 10 1 PPIM	00 mL mL uL
								r u X I
Analyte		LCS	<u>6 Rec.</u> LCSD	Limit	RP	D RPD Limit	LCS Q	ual LCSD Qua
Pentachlorophen	ol ·	.79	71	70 - 130) 9	30	J	J
Surrogate		I	.CS % Rec	LCSD) % Rec	Accep	otance Li	mits

2,4-Dichlorophenylacetic acid

Client: TN & Associates

Calculations are performed before rounding to avoid round-off errors in calculated results.

109

108

Job Number: 680-31009-1 Sdg Number: 31009

Method: 8081A_8082 Preparation: 3520C

Instrument ID: GC SemiVolatiles - M Lab File ID: mj15012.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 2 uL Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	. 0.10
4,4'-DDT	0.10	U	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U	0.0081	0.050
beta-BHC	0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	U	0.0069	0.050
Dieldrin	0.10	U	0.0078	0.10
Endosulfan I	0.050	U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	່ບ	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	. U	0.0070	0.050
Methoxychlor	0.50	U	0.023	0.50
Toxaphene	5.0	U	1.3	5.0
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	79		14 - 115	
Tetrachloro-m-xylene	· 57		35 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88126

 Lab Sample ID:
 MB 680-88126/6-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/15/2007 1809

 Date Prepared:
 10/12/2007 1205

Analysis Batch: 680-88389 Prep Batch: 680-88126 Units: ug/L

Job Number: 680-31009-1 Sdg Number: 31009

Method: 8081A_8082 Preparation: 3520C

Instrument ID: GC SemiVolatiles - M Lab File ID: mj15013.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 2 uL Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.196	0.168	85	37 - 179	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4,4'-DDE	0.204	0.155	76	33 - 142	
4,4'-DDT	0.200	0.210	105	27 - 141	
Aldrin	0.103	0.0607	59	32 - 114	
alpha-BHC	0.107	0.0582	54	29 - 112	
beta-BHC	0.109	0.0732	67	15 - 204	
delta-BHC	0.105	0.0662	63	25 - 123	
Dieldrin	0.200	0.169	84	45 - 137	
Endosulfan I	0.100	0.0766	77	31 [°] - 134	
Endosulfan II	0.200	0.169	84	24 - 144	
Endosulfan sulfate	0.203	0.184	91	44 - 128	
Endrin	0.203	0.177	87	38 - 144	
Endrin aldehvde	0.201	0.257	128	37 - 135	
Endrin ketone	0.201	0.188	94	41 - 155	
gamma-BHC (Lindane)	0.100	0.0625	62	31 - 118	
Heptachlor	0.100	0.0616	62	30 - 133	
Heptachlor epoxide	0.100	0.0781	78	34 - 126	
Methoxychlor	0.201	0.214	107	10 - 243	
Surrogate	% F	Rec	Ac	ceptance Limits	
DCB Decachlorobiphenyl	73	}		14 - 115	
Tetrachloro-m-xvlene	64			35 - 120	

Analysis Batch: 680-88389

Prep Batch: 680-88126

Units: ug/L

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Control Spike - Batch: 680-88126

 Lab Sample ID:
 LCS 680-88126/7-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/15/2007
 1829

 Date Prepared:
 10/12/2007
 1205

.

Job Number: 680-31009-1 Sdg Number: 31009

Method: 200.7 Rev 4.4 Preparation: 200

Lab Sample ID: MB 680-88095/5-A Analysis Batch: 680-88457 Instrument ID: ICP/AES Client Matrix: Water Prep Batch: 680-88095 Lab File ID: N/A Dilution: 1.0 Units: ug/L Initial Weight/Volume: 50 mL Date Analyzed: 10/15/2007 1719 Final Weight/Volume: 50 mL Date Prepared: 10/11/2007 1656

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	28	200
Iron	50	U	26	50
Silver	10	U	0.70	· 10
Calcium	500	U	25	500
Copper	20	υU	2.2	20
Manganese	10	U .	2.2	10
Nickel	40	U	2.0	40
Zinc	20	U	4.7	20

Analysis Batch: 680-88457

Prep Batch: 680-88095

Units: ug/L

Lab Control Spike - Batch: 680-88095

Lab Sample ID: LCS 680-88095/6-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/15/2007 1723 Date Prepared: 10/11/2007 1656

Method: 200.7 Rev 4.4 Preparation: 200

Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1910	96	85 - 115	
Iron	1000	1010	101	85 - 115	
Silver	50.0	50.0	100	85 - 115	
Calcium	5000	5200	104	85 - 115	
Copper	250	249	100	85 - 115	
Manganese	500	527	105	85 - 115	
Nickel	500	518	104	85 - 115	
Zinc .	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88095

Job Number: 680-31009-1 Sdg Number: 31009

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	2.0	· U	0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	0.96	J	0.24	[`] 1.0
Copper	0.31	j	0.26	1.0
Lead	0.082	J.	0.054	0.30
Mercury	0.080	J	0.044	0.10
Thallium	0.20	U	0.096	0.20

Analysis Batch: 680-88946

Prep Batch: 680-88097

Units: ug/L

Method Blank - Batch: 680-88097

 Lab Sample ID:
 MB 680-88097/7-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/22/2007
 1335

 Date Prepared:
 10/11/2007
 1711

Analysis Batch: 680-88946 Prep Batch: 680-88097 Units: ug/L

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	1.0	U	0.32	1.0
Selenium	0.50	U	0.16	0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88097

 Lab Sample ID:
 MB 680-88097/7-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/18/2007
 1809

 Date Prepared:
 10/11/2007
 1711

Job Number: 680-31009-1 Sdg Number: 31009

Method: 200.8 **Preparation: 200**

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	10.0	8.82	88	85 - 115	
Barium	20.0	19.0	95	85 - 115	
Beryllium	10.0	9.24	92	85 - 115	
Cadmium	10.0	8.64	86	85 - 115	
Chromium	20.0	19.3	96	85 - 115	
Copper	20.0	17.9	90	85 - 115	
Lead	10.0	10.0	100	85 - 115	
Mercury	1.00	0.948	95	85 - 115	
Thallium	.8.00	7.72	97	85 - 115	

Lab Control Spike - Batch: 680-88097

Lab Sample ID: LCS 680-88097/8-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/22/2007 1340 Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946 Prep Batch: 680-88097 Units: ug/L

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	22	108	85 - 115	
Selenium	20.0	21	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Sample ID: LCS 680-88097/8-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/18/2007 1815 Date Prepared: 10/11/2007 1711

Analysis Batch: 680-88946 Prep Batch: 680-88097 Units: ug/L

Lab Control Spike - Batch: 680-88097

Job Number: 680-31009-1 Sdg Number: 31009

Method: 200.8

Preparation: 200

Client: TN & Associates

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 680-88097

		•	
MS Lab Sample ID:	680-31009-2	Analysis Batch: 680-88946	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88097	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 1917		Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		
MSD Lab Sample ID:	680-31009-2	Analysis Batch: 680-88946	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88097	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 1923		Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		-

	<u>%</u>	<u>Rec.</u>					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	92	92	70 - 130	0	20		·····
Barium	122	88	70 - 130	5	20	4	4
Beryllium	91	91	70 - 130	1	20		
Cadmium	84	85	70 - 130	1	20		
Chromium	94	97	70 - 130	3	20	В	В
Copper	95	242	70 - 130	33	20	В	BF
Lead	111	87	70 - 130	5	20	В	В
Mercury	97	100	70 - 130	3	20	B	В
Thallium	93	95	70 - 130	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Job Number: 680-31009-1 Sdg Number: 31009

Client: TN & Associates

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 680-88097

Method: 200.8 Preparation: 200

MS Lab Sample ID: Client Matrix: Dilution:	680-31009-2 Water 1.0	Analysis Batch: 680-88946 Prep Batch: 680-88097	Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1442		Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		
MSD Lab Sample ID:	680-31009-2	Analysis Batch: 680-88946	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88097	Lab File ID: N/A
Dilution:	1.0	-	Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1448		 Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		-

		<u>% Re</u>	<u>c.</u>					
Analyte		MS	MSD	Limit	RPD	RPD Limit	MS Quai	MSD Qual
Arsenic		81	86	70 - 130	5	20		*****
Selenium		80	80	70 - 130	0.	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Job Number: 680-31009-1 Sdg Number: 31009

Method: 335.4 **Preparation: Distillation**

Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	MB 680-88118/1-A Water 1.0 10/12/2007 1348 10/12/2007 0801	Analysis Prep Ba Units: 1	Batch: 68 tch: 680-88 mg/L	0-88262 3118		Instrument ID: No Lab File ID: N/ Initial Weight/Volu Final Weight/Volu	o Equipment A ume: 50 mL ume: 50 mL	Assigned
Analyte			Result		Qual	MDL	RL	
Cyanide, Total			0.010		U	0.0050	0.01	0
Lab Control	Spike/ Spike Duplicate Recover	y Report	Batch: 6	80-88118		Method: 335.4 Preparation: D	istillation	
LCS Lab Samp Client Matrix: Dilution: Date Analyzed: Date Prepared:	le ID: LCS 680-88118/2-A Water 1.0 10/12/2007 1348 10/12/2007 0801	Analy Prep I Units:	sis Batch: 6 Batch: 680 mg/L	680-88262 68118		Instrument ID: N Lab File ID: N/A Initial Weight/Volu Final Weight/Volu	o Equipment me: 50 r me: 50 r	: Assigned nL nL
LCSD Lab Sarr Client Matrix: Dilution: Date Analyzed: Date Prepared:	pie ID: LCSD 680-88118/3-A Water 1.0 10/12/2007 1349 10/12/2007 0801	Analy Prep Units:	sis Batch: (Batch: 680 mg/L	680-88262 -88118		Instrument ID: Lab File ID: N// Initial Weight/Volu Final Weight/Volu	No Equipme A me: 50 m me: 50 m	nt Assigned L L
Analyte		LCS	<u>6 Rec.</u> LCSD	Limit	RI	PD RPD Limit	LCS Qual	LCSD Qua
Cyanide, Total	9,95,009,979,970,970,970,970,970,970,970,970	103	100	90 - 110	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88118

												Seri	al Nu	mber	73	877	8			
SEVERN	ANALYSIS REQUES	T AND CH	AIN OF CUSTODY	REC	ORD	STL Savannah 5102 LaRoche Avenue Savannah, GA 31404					Website: www.stl-inc.com Phone: (912) 354-7858 Fax: (912) 352-0165									
TRENT	SIL			-		· C	⊃ Aite	ernate l	_abora	tory Na	me/Loi	ation			Phone: Fax:					
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IL (LAB) PROJECT MANAGER H156, Page JENT (SITE) M H1950, MAR H1950, MAR H1950, MAR TN F ASSOC IENT ADDRESS (2.20) K 200 K 200 K MPANY CONTRACTING THIS N	P.O. NUMBE CLIENT PHO UNT 33 CLIENT E-M QUVAR - , Some Cit Su, VORK (if applicable)	R 5550 All The D	CONTRACT NO. CLIENT FAX GAS 3555549 Maine, Con Marietta, Con 300 40	OSITE (C) OR GRAB (G) INDICATE	JUS (WATER) OR SEMISOLID	QUEOUS LIQUID (OIL, SOLVENI,)	Surlay 50 S	French 524, 2	they 200. 7/20.8	Have SUSIA/ 3082	wet 335.4	Kises 515.1	12,52 525. 2	11 504. 1			EXP DEL DEL OEL (SUI NUN PER	NDARD REP IVERY DATE DU EDITED REP WERY RCHARGEI DATE DUE BUER OF CO SHIPMENT:	ORT	Р
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Login Sample Receipt Check List

Client: TN & Associates

Job Number: 680-31009-1 SDG Number: 31009

List Source: TestAmerica Savannah

Login Number: 31009 Creator: Hall, Karl I List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True _.	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RP-MW-04: received 1 liter amber broken each for 508 & 515.1 analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	· · · · ·
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	<u>^</u>
Samples do not require splitting or compositing.	N/A	



ANALYTICAL REPORT

Job Number: 680-31032-1

SDG Number: 31032

Job Description: Red Panther Chemical Site - Clarksdale,

For: TN & Associates 1220 Kennestone Circle Suite D

Marietta, GA 30066

Attention: Ms. Allyson Warrington

Terric Honely

Terry Hornsby Project Manager I terry.hornsby@testamericainc.com 10/31/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404 Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



METHOD SUMMARY

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Description	Lab Location	Method	Preparation Method
Matrix Water			
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS Determination of Semivolatile Organic Compounds in	TAL SAV TAL SAV	EPA 525.2	EPA 525.2
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography EDB, DBCP, and 123TCP in Water by Microextraction	TAL SAV	EPA-01 504.1	EPA-DW 504 1
Chlorinated Pesticides in Water by GC/ECD Separatory funnel extraction for method 508	TAL SAV TAL SAV	EPA 508	EPA 508
Chlorinated Acids in Water by Gas Chromatography Chlorinated Acids in Water by Gas Chromatography	TAL SAV TAL SAV	EPA-01 515.1	EPA-DW 515.1
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography Continuous Liquid-Liquid Extraction	TAL SAV TAL SAV	SW846 8081A_	_8082 SW846 3520C
ICP Metals by 200.7 200 Series Drinking Water Prep Determination Step	TAL SAV TAL SAV	EPA 200.7 Rev	4.4 EPA 200
ICPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step	TAL SAV TAL SAV	EPA 200.8	EPA 200
Cyanide, Total (Semi-Automated Colorimetry) Distillation/Cyanide	TAL SAV TAL SAV	MCAWW 335	t Distillation

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received		
680-31032-1	RP-MW-03	Water	10/11/2007 1050	10/12/2007 0925		
680-31032-2	RP-MW-01	Water	10/11/2007 1350	10/12/2007 0925		

TestAmerica Savannah

Page 3 of 44

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID:	RP-MW-03		
Lab Sample ID:	680-31032-1	Date Sampled:	10/11/2007 1050
Client Matrix:	Water	Date Received:	10/12/2007 0925
· · · · · · · · · · · · · · · · · · ·			

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 680-88630	Instrument ID:	GC/MS V	'olatiles - U
Preparation:	N/A		Lab File ID:	u6860.d	
Dilution:	1.0		Initial Weight/Volu	ume:	5 mL
Date Analyzed: Date Prepared:	10/17/2007 1425 N/A		Final Weight/Volu	ime:	5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Chlorobenzene	0.50	U	0.19	0.50	
cis-1,2-Dichloroethene	0.50	U	0.25	0.50	
1,2-Dichlorobenzene	0.50	U	0.23	0.50	
1,4-Dichlorobenzene	0.50	U	0.17	0.50	
1,1-Dichloroethene	0.50	U	0.24	0.50	
1,2-Dichloropropane	0.50	U	0.22	0.50	
Ethylbenzene	0.50	U	0.18	0.50	
Methylene Chloride	0.50	- U	0.21	0.50	
Tetrachloroethene	0.50	U	0.22	0.50	•
Toluene	0.50	U	0.21	0.50	
trans-1,2-Dichloroethene	0.50	Ū	0.22	0.50	
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50	
1,1,1-Trichloroethane	0.50	U	0.16	0.50	
Vinyl chloride	0.50	U	0.29	0.50	
Xylenes, Total	0.50	U	0.44	0.50	
1,2-Dichloroethane	0.50	U	0.19	0.50	
Carbon tetrachloride	0.50	· U	0.38	0.50	
Trichloroethene	0.50	U	0.20	0.50	
1,1,2-Trichloroethane	0.50	U	0.25	0.50	
Benzene	0.50	υ	0.19	0.50	
Styrene	0.50	U	0.30	0.50	
Surrogate	%Rec		Accep	tance Limits	
1,2-Dichlorobenzene-d4	82		70 -	130	
4-Bromofluorobenzene	81		70 -	130	

Client: TN & Associates

1.0

10/17/2007 1445

Dilution:

Date Analyzed:

Job Number: 680-31032-1 Sdg Number: 31032

5 mL

5 mL

Initial Weight/Volume:

Final Weight/Volume:

Client Sample ID:	RP-MW-01			
Lab Sample ID: Client Matrix:	680-31032-2 Water	· .	Date Sampled Date Received	10/11/2007 1350 10/12/2007 0925
	524.2 F	Purgeable Organic Compounds in Wa	ater by GC/MS	
Method:	524.2	Analysis Batch: 680-88630	Instrument ID: 0	GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u	16861.d

Date Prepared: N/A					
Analyte	Result (ug/L)	Qualifier	MDL	RL	
Chlorobenzene	0.50	U	0.19	0.50	
cis-1,2-Dichloroethene	0.50	U	0.25	0.50	
1,2-Dichlorobenzene	0.50	υ	0.23	0.50	
1,4-Dichlorobenzene	0.50	U	0.17	0.50	
1,1-Dichloroethene	0.50	U	0.24	0.50	
1,2-Dichloropropane	0.50	U	0.22	0.50	
Ethylbenzene	0.50	U	0.18	0.50	
Methylene Chloride	0.50	U	0.21	0.50	
Tetrachloroethene	0.50	U	0.22	0.50	
Toluene	0.50	U	0.21	0.50	
trans-1,2-Dichloroethene	0.50	U	0.22	0.50	
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50	
1,1,1-Trichloroethane	0.50	U	0.16	0.50	
Vinyl chloride	0.50	U	0.29	0.50	
Xylenes, Total	0.50	U	0.44	0.50	
1,2-Dichloroethane	0.50	U	0.19	0.50	
Carbon tetrachloride	0.50	U	0.38	0.50	
Trichloroethene	0.50	U	0.20	0.50	,
1,1,2-Trichloroethane	0.50	U	0.25	0.50	
Benzene	0.50	U	0.19	0.50	
Styrene	0.50	U	0.30	0.50	
Surrogate	%Rec		Accep	otance Limits	
1,2-Dichlorobenzene-d4	85		70 -	130	
4-Bromofluorobenzene	85		70 -	130	

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID	: RP-MW-03				
Lab Sample ID: Client Matrix:	680-31032-1 Water	· ·		Date Sampled: Date Received:	10/11/2007 1050 10/12/2007 0925
	525.2 Semivo	platile Organic Compounds in D	rinking W	ater by GCMS	
Method:	525.2	Analysis Batch: 680-88362		Instrument ID: Mas	s Spec LC - R
Preparation:	525.2	Prep Batch: 680-88285		Lab File ID: R43	33.D
Dilution:	1.0	· .		Initial Weight/Volume:	1040 mL
Date Analyzed:	10/15/2007 1455			Final Weight/Volume:	1 mL
Date Prepared:	10/15/2007 0909		i	Injection Volume:	1 uL
Analyte		Result (ug/L)	Qualifie	r MDL	RL
Alachlor		0.19	U	0.058	0.19
Atrazine		0.19	U	0.041	0.19
Simazine		0.48	U	0.073	0.48
Benzo[a]pyrene		0.19	U	0.024	0.19
Bis(2-ethylhexyl)	phthalate	1.9	U	0.48	1.9
Di(2-ethylhexyl)a	dipate .	1.4	U	0.48	1.4
Endrin		0.48	U	0.12	.0.48
Hexachlorobenze	ene	0.19	U	0.031	0.19
Hexachlorocyclop	pentadiene	1.9	U	0.054	1.9
Surrogate		%Rec		Accepta	ince Limits
Triphenylphosph	ate	99		70 - 13	30
2-Nitro-m-xylene	· ·	97		70 - 13	30
Perylene-d12		99		70 - 13	30

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID:	RP-MW-01							
Lab Sample ID:	680-31032-2		Date Sampled	10/11/2007 1350				
Client Matrix:	Water		Date Received	10/12/2007 0925				
	525.2 Semivolatile Organic Compounds in Drinking Water by GCMS							
Method:	525.2	Analysis Batch: 680-88362	Instrument ID:	Mass Spec LC - R				

Meulou.	JLJ.L	Analysis Daton. 000-00302	matument iD. Mass	Opec LC - N
Preparation:	525.2	Prep Batch: 680-88285	Lab File ID: R4334	I.D
Dilution:	1.0		Initial Weight/Volume:	1030 mL
Date Analyzed:	10/15/2007 1518		Final Weight/Volume:	1 mL
Date Prepared:	10/15/2007 0909	·	Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RĹ	
Alachlor	0.19	U	0.058	0.19	
Atrazine	0.19	U	0.042	0.19	
Simazine	0.49	U	0.074	0.49	
Benzo[a]pyrene	0.19	U	0.024	0.19	
Bis(2-ethylhexyl) phthalate	1.9	U	0.49	1.9	
Di(2-ethylhexyl)adipate	1.5	U	0.49	1.5	
Endrin	0.49	U .	0.12	0.49	
Hexachlorobenzene	0.19	U.	0.031	0.19	
Hexachlorocyclopentadiene	1.9	U	0.054	1.9	
Surrogate	%Rec	•	Accept	ance Limits	
Triphenylphosphate	101		70 - 1	30	
2-Nitro-m-xylene	94	70 - 130			
Perylene-d12	115		. 70 - 1	130	

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID:	RP-MW-03	· · · · · ·	
Lab Sample ID:	680-31032-1	Date Sampled:	10/11/2007 1050
Client Matrix:	Water	Date Received:	10/12/2007 0925
	504.1 EDB, DBCP, and 123TCP in Wate	r by Microextraction and Gas Chromatogra	phy

					• • •		
Method:	504.1	Analysis Batch: 680-88440	Inst	rument ID:	GC Se	emiVolatiles - X	
Preparation:	504.1	Prep Batch: 680-88289	Lab	File ID:	xj1500)34.d	
Dilution:	1.0		Initi	al Weight/Vo	lume:	36.48 mL	
Date Analyzed:	10/15/2007 1847		Fin	al Weight/Vo	lume:	2 mL	
Date Prepared:	10/15/2007 1030		Inje	ction Volum	е:	1 uL	
			Col	umn ID:	PRI	MARY	
Analyte		Result (ug/L)	Qualifier	MDL		RL	
1,2-Dibromo-3-C	hloropropane	0.019	Ū*	0.0034		0.019	
Ethylene Dibromi	ide	0.019	U 0.0040 0.019		0.019		
Surrogate		%Rec	Acceptance Limits		e Limits		
1,2,3-Trichloropr	opane-(Surr)	96	70 - 130		······································		

TestAmerica Savannah

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Client: TN & Associates Job Number: 680-31032-1 Sdg Number: 31032 **Client Sample ID: RP-MW-01** Lab Sample ID: 680-31032-2 Date Sampled: 10/11/2007 1350 **Client Matrix:** Water Date Received: 10/12/2007 0925 504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography Method: 504.1 GC SemiVolatiles - X Analysis Batch: 680-88440 Instrument ID: Preparation: 504.1 Prep Batch: 680-88289 Lab File ID: xj150038.d Dilution: 1.0 Initial Weight/Volume: 37.00 mL 10/15/2007 1916 Date Analyzed: Final Weight/Volume: 2 mL Date Prepared: 10/15/2007 1030 Injection Volume: 1 uL Column ID: PRIMARY Analyte Result (ug/L) Qualifier MDL RL 1,2-Dibromo-3-Chloropropane 0.019 Ů[™] 0.0033 0.019 Ethylene Dibromide 0.019 U 0.0040 0.019 Surrogate %Rec Acceptance Limits 1,2,3-Trichloropropane-(Surr) 119 70 - 130

Client: TN & As	sociates	· · · ·		Job	Number: 680-31032-1
Client Sample ID:	RP-MW-03				Sag Number: 31032
Lab Sample ID: Client Matrix:	680-31032-1 Water			Date Sampled: Date Received:	10/11/2007 1050 10/12/2007 0925
	508	Chlorinated Pesticides in Wate	r by GC/E	CD	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	508 508 1.0 10/15/2007 2221 10/15/2007 0850	Analysis Batch: 680-88394 Prep Batch: 680-88279	lı L F tı C	nstrument ID: GC ab File ID: mj nitial Weight/Volume Final Weight/Volume njection Volume: Column ID: F	C SemiVolatiles - M 15025.d e: 1040 mL : 5 mL 1 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
Chlordane (technic	cal)	0.24	U	0.025	0.24
PCB-1016		0.48	U	0.064	0.48
PCB-1221		0.48	U	0.092	0.48
PCB-1232		0.48	U	0.050	0.48
PCB-1242		0.48	U	0.083	0.48
PCB-1248		0.48	U	0.050	0.48
PCB-1254		0.48	U	0.055	0.48
PCB-1260		0.48	U	0.044	0.48
Toxaphene		2.4	U	0.24	2.4
Polychlorinated bi	phenyls, Total	0.48	U	0.092	0.48
Surrogate		%Rec		Accept	ance Limits
DCB Decachlorob	piphenyl	81		70 - 1	130
Tetrachloro-m-xyl	ene	84		70 - <i>1</i>	130

Client: TN & Associates

Client Sample ID:

RP-MW-01

Job Number: 680-31032-1 Sdg Number: 31032

Lab Sample ID: Client Matrix:	680-31032-2 Water			Date Sampled: Date Received:	10/11/2007 1350 10/12/2007 0925
	· · · ·	508 Chlorinated Pesticides in Wate	r by GC/	ECD	
Method: Preparation:	508 508	Analysis Batch: 680-88394 Prep Batch: 680-88279		Instrument ID: GC Lab File ID: mi	SemiVolatiles - M 15026.d
Dilution:	1.0	•		Initial Weight/Volume	: 1030 mL
Date Analyzed:	10/15/2007 2241			Final Weight/Volume	: 5 m).
Date Prepared	10/15/2007 0850			Injection Volume:	1 ut.
				Column ID: P	RIMARY
Analyte		Result (ug/L)	Qualifie	er MDL	RL
Chlordane (techn	ical)	0.24	U	0.025	0.24
PCB-1016		0.49	U	0.065	0.49
PCB-1221		0.49	U	0.093	0.49
PCB-1232		0.49	U	0.050 `	0.49
PCB-1242		0.49	U	0.083	0.49
PCB-1248		0.49	U	0.050	0.49
PCB-1254		0.49	U	0.055	0.49
PCB-1260		0.49	U	0.045	0.49
Toxaphene		2.4	U	0.24	2.4
Polychlorinated b	iphenyls, Total	0.49	0.49 U 0.093 0.49		0.49
Surrogate		%Rec		Accept	ance Limits
DCB Decachloro	biphenyl	79		70 - 1	30
Tetrachloro-m-xy	lene	. 90		70 - 1	130

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID:	RP-MW-03				oug 1101110011 01002
Lab Sample ID: Client Matrix:	o Sample ID: 680-31032-1 Date Sam ent Matrix: Water Date Rece		Date Sampled: Date Received	10/11/2007 1050 10/12/2007 0925	
	515.1 C	hlorinated Acids in Water by Gas	s Chromatogr	aphy	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	515.1 515.1 1.0 10/23/2007 1800 10/19/2007 0804	Analysis Batch: 680-89042 Prep Batch: 680-88702	Instri Lab Initia Fina Injec Colu	ument ID: G File ID: sj I Weight/Volum I Weight/Volum tion Volume: mn ID:	C SemiVolatiles - S (23009.d) ne: 1040 mL ne: 10 mL 1 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
Pentachloropheno	l	0.96	U	0.024	0.96
Surrogate		%Rec		Accer	otance Limits
2,4-Dichloropheny	lacetic acid	113	70 - 130		

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

10/11/2007 1350

10/12/2007 0925

Client Sample ID:	RP-MW-01	· · ·
Lab Sample ID:	680-31032-2	Date Sampled:
Client Matrix:	Water	Date Received:
	E15 1 Chloringtod Asido in	

				e en en acegi	ab1			
Method:	515.1		Analysis Batch: 680-89042	Instr	ument ID:	GC Sen	niVolatiles - S	3
Preparation:	515.1		Prep Batch: 680-88702	Lab	File ID:	sj23010),d	
Dilution:	1.0			Initia	l Weight/Vo	lume:	500 mL	
Date Analyzed:	10/23/2007	1821		Fina	Weight/Vo	lume:	5 mL	
Date Prepared:	10/19/2007	0804		Injec	tion Volume	e:	1 uĽ	
				Colu	mn ID:	PRIM	ARY	
Analyte			Result (ug/L)	Qualifier	MDL		RL	
Pentachloropheno			1.0	U	0.025	an in the second se	1.0	·
Surrogate			%Rec		Ac	ceptance	Limits	
2,4-Dichloropheny	lacetic acid		129		7	70 - 130		

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID:	RP-MW-03		5	
Lab Sample ID:	680-31032-1	Date Sampled:	10/11/2007 1050	
Client Matrix:	Water	Date Received:	10/12/2007 0925	
				_

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method:	8081A_8082	Analysis Batch: 680-88742	Inst	rument ID:	GC Se	emiVolatiles - J	
Preparation:	3520C	Prep Batch: 680-88278	Lab	File ID:	jj1606	b.0	
Dilution:	1.0		Initi	al Weight/Vo	lume:	1040 mL	
Date Analyzed:	10/17/2007 1300		Fina	al Weight/Vol	ume:	10 mL	
Date Prepared:	10/15/2007 1200	•	Inje	ction Volume	et ·	2 uL	
•			Col	umn ID:	PRI	MARY	
Analyte		Result (ug/L)	Qualifier	MDL		RL	
4 41 000		0.000	1 1	00057		0.000	

4,4'-DDD	0.096	υ	0.0057	0.096	
4,4'-DDE	0.096	U	0.0094	0.096	
4,4'-DDT	0.096	U	0.014	0.096	
Aldrin	0.048	U	0.0058	0.048	
alpha-BHC	0.048	U	0.0078	0.048	
beta-BHC	0.048	U	0.0079	0.048	
Chlordane (technical)	0.48	U	0.047	0.48	
delta-BHC	0.048	υ	0.0066	0.048	
Dieldrin	0.096	U	0.0075	0.096	
Endosulfan I	0.048	U	0.0053	0.048	
Endosulfan II	0.096	U	0.0048	0.096	
Endosulfan sulfate	0.096	U	0.0067	0.096	
Endrin	0.096	U	0.0075	0.096	
Endrin aldehyde	0.096	U	0.0087	0.096	
Endrin ketone	0.096	U ·	0.0088	0.096	
gamma-BHC (Lindane)	0.048	U	0.0057	0.048	
Heptachlor	0.048	U	0.0043	0.048	
Heptachlor epoxide	0.048	U	0.0067	0.048	
Methoxychlor	0.48	U.	0.022	0.48	•
Toxaphene	4.8	U	1.3	4.8	
Surrogate	%Rec	Acceptance Limits			
DCB Decachlorobiphenyl	61		14 - 1	15	
Tetrachloro-m-xylene	63		35 - 1	20	

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Client Sample ID:	RP-MW-01		
Lab Sample ID:	680-31032-2 ·	Date Sampled:	10/11/2007 1350
Client Matrix:	Water	Date Received:	10/12/2007 0925

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method:	8081A_8082	Analysis Batch: 680-88742	Instrument ID: GC Se	miVolatiles - J
Preparation:	3520C	Prep Batch: 680-88278	Lab File ID: jj1606	1.d
Dilution:	1.0		Initial Weight/Volume:	1030 mL
Date Analyzed:	10/17/2007 1323		Final Weight/Volume:	10 mL
Date Prepared:	10/15/2007 1200		Injection Volume:	2 uL
			Column ID: PRIM	MARY .

Analyte	Result (ug/L)	Qualifier	MDL	RL	
4,4'-DDD	0.097	U	0.0057	0.097	
4,4'-DDE	0.097	U	0.0095	0.097	
4,4'-DDT	0.097	U	0.015	0.097	
Aldrin	0.049	U	0.0058	0.049	
alpha-BHC	0.049	U	0.0079	0.049	
beta-BHC	0.049	U	0.0080	0.049	
Chlordane (technical)	0.49	.U	0.048	0.49	
delta-BHC	0.049	U	0.0067	0.049	
Dieldrin	0.097	U	0.0076	0.097	
Endosulfan I	0.049	U	0.0053	0.049	
Endosulfan II	0.097	U	0.0049	0.097	
Endosulfan sulfate	0.097	U	0.0068	0.097	
Endrin	0.097	υ	0.0076	0.097	
Endrin aldehyde	0.097	U	0.0087	0.097	
Endrin ketone	0.097	U	0.0088	0.097	
gamma-BHC (Lindane)	0.049	U ·	0.0057	0.049	
Heptachlor	0.049	U	0.0044	0.049	•
Heptachlor epoxide	0.049	U	0.0068	0.049	
Methoxychlor	0.49	U	0.022	0.49	
Toxaphene	4.9	U	1.3	4.9	
Surrogate	%Rec	Acceptance Limits			
DCB Decachlorobiphenyl	54		<u>14 - 1</u>	15	
Tetrachloro-m-xylene	57		35 - 1	20	
Job Number: 680-31032-1 Sdg Number: 31032

0.50

0.16

Client Sample ID: RP-MW-03 Lab Sample ID: 680-31032-1 Date Sampled: 10/11/2007 1050 Client Matrix: 10/12/2007 0925 Water Date Received: 200.7 Rev 4.4 ICP Metals by 200.7 Method: 200.7 Rev 4.4 Analysis Batch: 680-88788 Instrument ID: **ICP/AES** Preparation: 200 Prep Batch: 680-88396 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 50 mL Final Weight/Volume: Date Analyzed: 10/18/2007 1834 50 mL Date Prepared: 10/16/2007 0824 Analyte MDL RL Result (ug/L) Qualifier Aluminum 200 Ū 28 200 Iron 80 26 50 Silver 10 U 0.70 10 Calcium 700 25 500 Copper 7.2 2.2 20 J Manganese 2.9 J 2.2 10 Nickel 40 υ 2.0 40 Zinc 32 4.7 20 200.8 ICPMS Metals by 200.8 Method: 200.8 Analysis Batch: 680-88954 Instrument ID: ICP MS Preparation: 200 Prep Batch: 680-88392 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 50 mL Date Analyzed: 10/18/2007 1951 Final Weight/Volume: 50 mL Date Prepared: 10/16/2007 0803 Analyte MDL RL Result (ug/L) Qualifier Antimony U 0.082 0.50 0.50 Barium 0.52 11 2.0 Beryllium U 0.40 0.12 0.40 Cadmium U 0.058 0.10 0.10 Chromium 1.4 В 0.24 1.0 0.26 Copper 8.7 1.0 Lead 0.75 0.054 0.30 Mercury 0.045 0.044 0.10 J Thallium 0.20 U 0.096 0.20 Method: 200.8 ICP MS Analysis Batch: 680-88954 Instrument ID: Preparation: 200 Prep Batch: 680-88392 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 50 mL Date Analyzed: 10/22/2007 1516 Final Weight/Volume: 50 mL 10/16/2007 0803 Date Prepared: Analyte RL Result (ug/L) MDL Qualifier Arsenic 1.0 1.0 Ū 0.32

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Selenium

Client: TN & Associates

0.76

of 44

Job Number: 680-31032-1 Sdg Number: 31032

Lab Sample ID: Client Matrix:	680-31032-2 Water		Date Date	e Sampled: 10 e Received: 10	0/11/2007 1350 0/12/2007 0925	
		200.7 Rev 4.4 ICP Metals by	200.7			
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 10/18/2007 1839 10/16/2007 0824	Analysis Batch: 680-88788 Prep Batch: 680-88396	Instrume Lab File Initial We Final We	nt ID: ID: eight/Volume: eight/Volume:	ICP/AES N/A 50 mL 50 mL	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
Aluminum		200	U	28	200	
Iron		86		26	50	
Silver		10	U	0.70	10	
Calcium		810		25	500	
Copper		6.7	J	2.2	20	
Manganese		10	U	2.2	10	
Nickel		40	U	2.0	40	
Zinc		6.4	J	4.7	20	_
		200.8 ICPMS Metals by 2	00.8			
Method:	200.8	Analysis Batch: 680-88954	Instrument ID: ICP MS		ICP MS	
Preparation:	200	Pren Batch: 680-88392	I ab Eile ID:		N/A	
Dilution:	10		Initial Weight Volume: 50 ml			
Date Analyzed: Date Prepared:	10/18/2007 2020 10/16/2007 0803		Final W	eight/Volume:	50 mL	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
Antimony		0.50	U [.]	0.082	0.50	
Barium		· 12		0.52	2.0	
Beryllium		0.40	U	0.12	0.40	
Cadmium		0.10	U	.0.058	0.10	
Chromium		1.6	В	0.24	1.0	
Copper		8.9		0.26	1.0	
Lead		1.1		0.054	0.30	
Mercury		0.051	J	0.044	0.10	
Thallium		0.20	U	0.096	0.20	
Method	200.8	Analysis Batch: 680-88954	Instrum	ent ID	ICP MS	
Preparation	200.0	Pren Batch: 680_88302	i ah Eil		N/A	
Dilution:	10	1 Tep Datch. 000-00392	Lau Fill	loight / olumo	50 ml	
Date Apolyzodi	1.0		Einel M		50 mL	
Date Prepared:	10/16/2007 0803	· · · ·		reignir volume	50 ML	
		· ·				
Analyte		Result (ug/L)	Qualifier	MDL	RL	
Arsenic		1.0	U	0.32	1.0	
Selenium		0.85		0.16	0.50	

Client: TN & Associates

Client Sample ID: RP-MW-01

Client: TN & Associates

General Chemistry						
Client Sample ID:	RP-MW-03				•	
Lab Sample ID: Client Matrix:	680-31032-1 Water			Date Sampled: Date Received:	10/1 10/1	1/2007 1050 2/2007 0925
Analyte	Resi	t Qual Ur	nits MDL	RL	Dil	Method
Cyanide, Total	0.01 Anly Batch: 680-88 Prep Batch: 680-88	U mo 81 Date Analyzed 22 Date Prepared:	g/L 0.0050 10/17/2007 0741 10/15/2007 1115	0.010	1.0	335.4
Client Sample ID:	RP-MW-01					
Lab Sample ID: Client Matrix:	680-31032-2 Water			Date Sampled: Date Received:	10/1 10/1	1/2007 1350 12/2007 0925
Analyte	Res	lt Qual Ur	nits MDL	RL	Dil	Method
Cyanide, Total	0.01 Anly Batch: 680-88 Prep Batch: 680-88	U m 81 Date Analyzed 322 Date Prepared:	g/L 0.0050 10/17/2007 0742 10/15/2007 1115	0.010	1.0	335.4

DATA REPORTING QUALIFIERS

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC Semi VOA		
	U ,	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	· · ·	
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	·	

lt

U

Indicates the analyte was analyzed for but not detected.

Job Number: 680-31032-1 Sdg Number: 31032

Client: TN & Associates

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
LCS 680-88630/3		91	98
MB 680-88630/4		91	89
680-31032-1	RP-MW-03	82	81
680-31032-2	RP-MW-01	85	85

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

Job Number: 680-31032-1 Sdg Number: 31032

Client: TN & Associates

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Client Matrix: Water

Lab Sample ID	Client Sample ID	2NMX %Rec	PD12 %Rec	TPP %Rec
LCS 680-88285/5-A		96	88	92
MB 680-88285/4-A		96	85	96
680-31032-1	RP-MW-03	97	99	99
680-31032-2	RP-MW-01	94	115	101

Surrogate		Acceptance Limits
2NMX	2-Nitro-m-xylene	70 - 130
PD12	Perylene-d12	70 - 130
TPP	Triphenylphosphate	70 - 130

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Water					
Lab Sample ID	Client Sample ID	TCP1 %Rec	TCP2 %Rec		
LCS 680-88289/5-A			113		
LCSD_680-88289/6-A		109			
MB 680-88289/4-A			94		
680-31032-1	RP-MW-03		96		
680-31032-2	RP-MW-01		119		

Surrogate		Acceptance Limits
TCP	1,2,3-Trichloropropane-(Surr)	70 - 130

Job Number: 680-31032-1 Sdg Number: 31032

Client: TN & Associates

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX2 %Rec
LCS 680-88279/8-A			107	99
MB 680-88279/6-A		114		103
680-31032-1	RP-MW-03		81	84
680-31032-2	RP-MW-01	-	79	90

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
тсх	Tetrachloro-m-xylene	70 - 130

Job Number: 680-31032-1 Sdg Number: 31032

Client: TN & Associates

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA2 %Rec
LCS 680-88702/20-A		121
LCSD 680-88702/21-A	· · · · ·	109
MB 680-88702/19-A		104
680-31032-1	RP-MW-03	113
680-31032-2	RP-MW-01	129

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water							
Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec		
LCS 680-88278/9-A			69		81		
MB 680-88278/8-A		67		59 ·			
680-31032-1	RP-MW-03	61		63			
680-31032-2	RP-MW-01	54			57		

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	14 - 115
тсх	Tetrachloro-m-xylene	35 - 120

Job Number: 680-31032-1 Sdg Number: 31032

Method Blank - Batch: 680-88630

Client: TN & Associates

Lab Sample ID:MB 680-88630/4Client Matrix:WaterDilution:1.0Date Analyzed:10/17/2007 1306Date Prepared:N/A

Analysis Batch: 680-88630 Prep Batch: N/A Units: ug/L

Method: 524.2 Preparation: N/A

Instrument ID: GC/MS Volatiles - U Lab File ID: uq2290.d Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	· U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	U	0.21	0.50
Tetrachloroethene	. 0.50	U	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	.0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50
Surrogate	% Rec		Acceptance Limits	3
1,2-Dichlorobenzene-d4	· 91		70 - 130	
4-Bromofluorobenzene	89		70 - 130	

Job Number: 680-31032-1 Sdg Number: 31032

Method: 524.2 Preparation: N/A

Instrument ID: GC/MS Volatiles - U Lab File ID: uq2289.d Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chlorobenzene	20.0	19.7	98	70 - 130	
cis-1,2-Dichloroethene	20.0	19.8	99	70 - 130	-
1,2-Dichlorobenzene	20.0	17.4	87	70 - 130	
1,4-Dichlorobenzene	20.0	17.2	86	70 - 130	
1,1-Dichloroethene	20.0	19.9	100	70 - 130	
1,2-Dichloropropane	20.0	20.7	104	70 - 130	
Ethylbenzene	20.0	18.5	93	70 - 130	
Methylene Chloride	20.0	19.7	99	70 - 130	•
Tetrachloroethene	20.0	20.0	100	70 - 130	
Toluene	20.0	19.8	99	70 - 130	
trans-1,2-Dichloroethene	20.0	20.2	101	70 - 130	
1,2,4-Trichlorobenzene	20.0	18.5	92	70 - 130	
1,1,1-Trichloroethane	20.0	18.9	95	70 - 130	
Vinyl chloride	20.0	19.4	97	70 - 130	
Xylenes, Total	60.0	54.4	91	70 - 130	
1,2-Dichloroethane	20.0	20.6	103	70 - 130	
Carbon tetrachloride	20.0	17.8	89	70 - 130	
1,1,2-Trichloroethane	20.0	20.2	101	70 - 130	
Benzene	20.0	20.5	103	70 - 130	
Styrene	20.0	18.0	90	70 - 130	
Surrogate	% F	Rec	Ac	ceptance Limits	
1,2-Dichlorobenzene-d4	91			70 - 130	
4-Bromofluorobenzene	98	3		70 - 130	

Analysis Batch: 680-88630

Prep Batch: N/A

Units: ug/L

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Control Spike - Batch: 680-88630

Lab Sample ID: LCS 680-88630/3

Date Analyzed: 10/17/2007 1147

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1.0

Client Matrix: Water

Date Prepared: N/A

Dilution:

Job Number: 680-31032-1 Sdg Number: 31032

Method: 525.2 Preparation: 525.2

Lab Sample ID:	MB 680-88285/4-A	Analysis Batch 680-88362	Instrument ID: Mass Spec LC - R
Client Matrix:	Water	Prep Batch: 680-88285	Lab File ID: R4332.D
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	10/15/2007 1432		Final Weight/Volume: 1 mL
Date Prepared:	10/15/2007 0909		Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL	
Alachlor	0.20	U	0.060	0.20	
Atrazine	0.20	U	0.043	0.20	
Simazine	0.50	U	0.076	0.50	
Benzo[a]pyrene	0.20	U	0.025	0.20	
Bis(2-ethylhexyl) phthalate	2.0	U	0.50	2.0	
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5	
Endrin	0.50	U	0.12	0.50	
Hexachlorobenzene	0.20	U	0.032	0.20	
Hexachlorocyclopentadiene	2.0	U	0.056	2.0	•
Surrogate	% Rec	·	Acceptance Limits		
Triphenylphosphate	96		70 - 130		
2-Nitro-m-xylene	96		70 - 130		
Perviene-d12	85		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88285

Job Number: 680-31032-1 Sdg Number: 31032

Method: 525.2 Preparation: 525.2

Instrument ID: Mass Spec LC - R Lab File ID: R4331.D Initial Weight/Volume: 1000 mL Final Weight/Volume: 1 mL Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alachior	5.00	4.34	87	70 - 130	
Atrazine	5.00	4.43	89	70 - 130	
Simazine	5.00	4.45	89	70 - 130	
Benzo[a]pyrene	5.00	4.12	82	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.52	90	70 - 130	
Di(2-ethylhexyl)adipate	5.00	4.05	81	70 - 130	
Endrin	5.00	4.39	88	70 - 130	
Hexachlorobenzene	5.00	4.13	83	70 - 130	
Hexachlorocyclopentadiene	5.00	4.03	81	70 - 130	
Surrogate	% R	lec	Ac	ceptance Limits	
Triphenylphosphate	92		70 - 130		
2-Nitro-m-xylene	96	i		70 - 130	
Perylene-d12	88		70 - 130		

Analysis Batch: 680-88362

Prep Batch: 680-88285

Units: ug/L

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Sample ID: LCS 680-88285/5-A

1.0

Date Analyzed: 10/15/2007 1410

Date Prepared: 10/15/2007 0909

Client Matrix: Water

Dilution:

Lab Control Spike - Batch: 680-88285

Job Number: 680-31032-1 Sdg Number: 31032

Method Blank - E	3atch: 680-88289					Method: 504.1 Preparation: 504.1		
Lab Sample ID: MB Client Matrix: Wa Dilution: 1.0 Date Analyzed: 10/ Date Prepared: 10/	8 680-88289/4-A ater 15/2007 1655 15/2007 1030	Analysis Prep Bate Units: uç	Batch: 680 ch: 680-88 g/L)-88440 289	•	Instrument ID: GC SemiVolatiles - X Lab File ID: xj150019.d Initial Weight/Volume: 35 mL Final Weight/Volume: 2 mL Injection Volume: 1 uL Column ID: PRIMARY		
Analyte			Result	C	Qual	MDL RL		
1,2-Dibromo-3-Chlo Ethylene Dibromide	propropane		0.020 0.020	ί) J	0.0035 0.020 0.0042 0.020		
Surrogate			% Rec			Acceptance Limits		
1,2,3-Trichloroprop	ane-(Surr)		94			70 - 130		
Lab Control Spi Lab Control Spi LCS Lab Sample II	i <mark>ke/</mark> ike Duplicate Recovery D: LCS 680-88289/5-A	y Report - Analys	Batch: 68	80-88289 80-88440		Method: 504.1 Preparation: 504.1 Instrument ID: GC SemiVolatiles - X		
Client Matrix: Dilution: Date Analyzed: Date Prepared:	Water 1.0 10/15/2007 1702 10/15/2007 1030	Prep B Units:	atch: 680- ug/L	88289 .		Lab File ID: xj150020.d Initial Weight/Volume: 35 mL Final Weight/Volume: 2 mL Injection Volume: 1 uL Column ID: PRIMARY		
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	ID: LCSD 680-88289/6-A Water 1.0 10/15/2007 1709 10/15/2007 1030	Analys Prep B Units:	is Batch: € atch: 680- ug/L	80-88440 88289		Instrument ID: GC SemiVolatiles - X Lab File ID: xj150021.d Initial Weight/Volume: 35 mL Final Weight/Volume: 2 mL Injection Volume: 1 uL Column ID: PRIMARY		
Analyte		LCS <u>%</u>	<u>Rec.</u> LCSD	Limit	RP	D RPD Limit LCS Qual LCSD Qua		
1,2-Dibromo-3-Ch Ethylene Dibromic	loropropane le	111 105	133 101	70 - 130 70 - 130	18 4	30 * 30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

1,2,3-Trichloropropane-(Surr)

Surrogate

Client: TN & Associates

LCS % Rec

113

LCSD % Rec

109

Acceptance Limits

70 - 130

Client: TN & Associates

Method Blank - Batch: 680-88279

Lab Sample ID:MB 680-88279/6-AClient Matrix:WaterDilution:1.0Date Analyzed:10/15/2007 2104Date Prepared:10/15/2007 0850

Analysis Batch: 680-88394 Prep Batch: 680-88279 Units: ug/L

Quality Control Results

Job Number: 680-31032-1 Sdg Number: 31032

Method: 508 Preparation: 508

Instrument ID: GC SemiVolatiles - M Lab File ID: mj15021.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 5 mL Injection Volume: 1 uL Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL	
Chlordane (technical)	0.25	U	0.026	0.25	
PCB-1016	0.50	U -	0.067	0.50	
PCB-1221	0.50	U	0.096	0.50	
PCB-1232	0.50	U	0.052	0.50	
PCB-1242	0.50	U	0.086	0.50	
PCB-1248	0.50	υ	0.052	0.50	
PCB-1254	0.50	U	0.057	0.50	
PCB-1260	0.50	U	0.046	0.50	
Toxaphene	2.5	U	0.25	2.5	
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50	
Surrogate	% Rec		Acceptance Limits	5	
DCB Decachlorobiphenyl	114		70 - 130	. :	
Tetrachloro-m-xylene	103		70 - 130		

Lab Control Spike - Batch: 680-88279

Method: 508 Preparation: 508

Lab Sample ID: LCS 680-88279/8-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/15/2007 2143 Date Prepared: 10/15/2007 0850		Analysis Batch: Prep Batch: 68 Units: ug/L	Analysis Batch: 680-88394 Prep Batch: 680-88279 Units: ug/L		Instrument ID: GC SemiVolatiles - M Lab File ID: mj15023.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 5 mL Injection Volume: 1 uL Column ID: PRIMARY			
Analyte		Spike Amount	Result	% Rec.	Limit	Qual		
PCB-1016		10.0	11.9	119	70 - 130	***************************************		
PCB-1260		10.0	12.2	122	70 - 130			
Surrogate	urrogate		% Rec		Acceptance Limits			
DCB Decachlo	robinhenvl	10	7		70 - 130			

Job Number: 680-31032-1 Sdg Number: 31032

Method: 515.1 Preparation: 515.1

Instrument ID: GC SemiVolatiles - S Lab File ID: sj23006.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 1 uL Column ID: PRIMARY

Analyte		Result	Qual	MDL	RL
Pentachlorophenol	a	1.0	U	0.025	1.0
Surrogate		% Rec	Ассер	tance Limits	
2,4-Dichlorophenylacetic acid		104	7(0 - 130	

Analysis Batch: 680-89042

Prep Batch: 680-88702

Units: ug/L

Lab Control Spike/

Client: TN & Associates

Client Matrix:

Dilution:

Method Blank - Batch: 680-88702

Lab Sample ID: MB 680-88702/19-A

1.0

Date Analyzed: 10/23/2007 1657

Date Prepared: 10/19/2007 0804

Water

Lab Control Spike Duplicate Recovery Report - Batch: 680-88702

LCS Lab Sample ID: LCS 680-88702/20-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/23/2007 1718 Date Prepared: 10/19/2007 0804

Analysis Batch: 680-89042 Prep Batch: 680-88702 Units: ug/L

 LCSD Lab Sample
 ID: LCSD 680-88702/21-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/23/2007 1739

 Date Prepared:
 10/19/2007 0804

Analysis Batch: 680-89042 Prep Batch: 680-88702 Units: ug/L

Method: 515.1 Preparation: 515.1

Instrument ID: GC SemiVolatiles - S Lab File ID: sj23007.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 1 uL Column ID: PRIMARY

Instrument ID: GC SemiVolatiles - S Lab File ID: sj23008.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 1 uL Column ID: PRIMARY

Analyte	LCS	<u>% Rec.</u> LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pentachlorophenol	82	79	70 - 130	4	30	J	J
Surrogate		LCS % Rec		Rec	Acceptance Limits		s.
2,4-Dichlorophenylacetic acid		121	109		. 7	0 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Job Number: 680-31032-1 Sdg Number: 31032

Method: 8081A_8082 , Preparation: 3520C

Instrument ID: GC SemiVolatiles - J Lab File ID: jj16052.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 2 uL Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	0.10
4,4'-DDT	0.10	U	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U ·	0.0081	0.050
beta-BHC	0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	υ	0.0069	0.050
Dieldrin	0.10	U	0.0078	0.10
Endosulfan I	0.050	·U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	U	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	U	0.0070	0.050
Methoxychlor	0.50	U.	0.023	0.50
Toxaphene	5.0	U	1.3	5.0
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	67		14 - 115	
Tetrachloro-m-xvlene	59		35 - 120	

Analysis Batch: 680-88742

Prep Batch: 680-88278

Units: ug/L

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88278

Lab Sample ID: MB 680-88278/8-A

1.0

Date Analyzed: 10/17/2007 0956

Date Prepared: 10/15/2007 1200

Client Matrix: Water

Dilution:

Job Number: 680-31032-1 Sdg Number: 31032

Method: 808

Method: 8081A_8082 Preparation: 3520C

Lab Sample ID:	LCS 680-88278/9-A	Analysis Batch: 680-88742	Instrument ID GC SemiVolatilesI
Client Matrix:	Water	Prep Batch: 680-88278	Lab File ID: jj16053.d
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	10/17/2007 1019	· · ·	Final Weight/Volume: 10 mL
Date Prepared:	10/15/2007 1200		Injection Volume: 2 uL
			Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.196	0.148	75	37 - 179	**************
4,4'-DDE	0.204	0.147	72	33 - 142	
4,4'-DDT	0.200	0.186	93	27 - 141	
Aldrin	0.103	0.0786	76	32 - 114	
alpha-BHC	0.107	0.0773	72	29 - 112	
beta-BHC	0.109	0.0945	87	15 - 204	
delta-BHC	0.105	0.0680	65	25 - 123	
Dieldrin	0.200	0.156	78	45 - 137	
Endosulfan I	0.100	0.0846	85	31 - 134	
Endosulfan II	0.200	0.148	74	24 - 144	
Endosulfan sulfate	0.203	0.153	75	44 - 128	
Endrin	0.203	0.151	74	38 - 144	
Endrin aldehyde	0.201	0.176	87	37 - 135	
Endrin ketone	0.201	0.169	84	41 - 155	
gamma-BHC (Lindane)	0.100	0.0766	77	31 - 118	
Heptachlor	0.100	0.0817	82	30 - 133	
Heptachlor epoxide	0.100	0.0799	80	34 - 126	
Methoxychlor	0.201	0.212	105	10 - 243	J
Surrogate	% F	% Rec		ceptance Limits	
DCB Decachlorobiphenyl	69)		14 - 115	
Tetrachloro-m-xylene	81			35 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Control Spike - Batch: 680-88278

Job Number: 680-31032-1 Sdg Number: 31032

Method: 200.7 Rev 4.4 Preparation: 200

Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL	
Aluminum	200	U	28	200	
Iron	50	U	26	50	
Silver	10	U	0.70	10	
Calcium	500	U	25	500	
Copper	20	U	2.2	20	
Manganese	10	ບ	2.2	10	
Nickel	40	ับ	2.0	40	
Zinc	20	U	4.7	20	

Lab Control Spike - Batch: 680-88396

 Lab Sample ID:
 LCS 680-88396/4-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/18/2007
 1829

 Date Prepared:
 10/16/2007
 0824

Analysis Batch: 680-88788 Prep Batch: 680-88396 Units: ug/L

Method: 200.7 Rev 4.4 Preparation: 200

Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result ,	% Rec.	Limit	Qual
Aluminum	2000	2000	100	85 - 115	*****
Iron	1000	1010	101	85 - 115	
Silver	50.0	50.7	101	85 - 115	
Calcium	5000	5270	105	85 - 115	
Copper	250	262	105	85 - 115	
Manganese	500	536	107	85 - 115	
Nickel	500	514	103	85 - 115	
Zinc	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88396

 Lab Sample ID:
 MB 680-88396/3-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/18/2007
 1824

 Date Prepared:
 10/16/2007
 0824

Analysis Batch: 680-88788 Prep Batch: 680-88396 Units: ug/L

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 680-88396

Method: 200.7 Rev 4.4 Preparation: 200

MS Lab Sample ID: Client Matrix: Dilution:	680-31032-2 Water 1.0	Analysis Batch: 680-88788 Prep Batch: 680-88396	Instrument ID: ICP/AES Lab File ID; N/A Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 1854		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0824		
MSD Lab Sample ID:	680-31032-2	Analysis Batch: 680-88788	Instrument ID: ICP/AES
Client Matrix:	Water	Prep Batch: 680-88396	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/18/2007 1859	•	Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0824		-

	<u>% Rec.</u>					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Aluminum	105	105	75 - 125	0	20	
Iron	99	100	75 - 125	1	20	
Silver	104	104	75 - 125	0	20	
Calcium	105	106	75 - 125	0	20	
Copper	107	108	75 - 125	0	20	
Manganese	108	108	75 - 125	0	· 20	
Nickel	102	102	75 - 125	0	20	
Zinc	106	106	75 - 125	0	20	

Job Number: 680-31032-1 Sdg Number: 31032

Method Blank - Batch: 680-88392

Lab Sample ID: MB 680-88392/11-A

1.0

Date Analyzed: 10/18/2007 1940

Date Prepared: 10/16/2007 0803

Client: TN & Associates

Client Matrix: Water

Dilution:

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL	
Antimony	0.50	U	0.082	0.50	
Barium	2.0	U	0.52	2.0	
Beryllium	0.40	U	0.12	0.40	
Cadmium	0.10	ບ.	0.058	0.10	·
Chromium	0.75	J	0.24	1.0	
Copper	1.0	U	0.26	1.0	
Lead	0.30	Ŭ	0.054	0.30	:
Mercury	0.10	U	0.044	0.10	
Thallium	0.20	U	0.096	0.20	

Analysis Batch: 680-88954

Prep Batch: 680-88392

Units: ug/L

Method Blank - Batch: 680-88392

Method: 200.8 Preparation: 200

Lab Sample ID:	MB 680-88392/11-A	Analysis Batch: 680-88954	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88392	Lab File ID: N/A
Dilution:	1:0	Units: ug/L	Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1505		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0803		-

Analyte		Result	Qual	MDL	RL
Arsenic Selenium		1.0 0.50	U U	0.32 0.16	1.0 0.50

Job Number: 680-31032-1 Sdg Number: 31032

Qual

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL ne: 50 mL

Dilution: 1.0 Date Analyzed: 10/18/2007 1946 Date Prepared: 10/16/2007 0803		Units: ug/L		Initial Weight/Volume Final Weight/Volume		
Analyte		Spike Amount	Result	% Rec.	Limit	
Antimony		10.0	9.02	90	85 - 115	
Barium		20.0	10.2	90	85 _ 115	

Analysis Batch: 680-88954

Prep Batch: 680-88392

Barium	20.0	19.2	96	85 - 115	
Beryllium	10.0	8.99	90	85 - 115	
Cadmium	10.0	8.80	88	85 - 115	
Chromium	20.0	19.5	97	85 - 115	
Copper	20.0	18.2	91	85 - 115	
Lead	10.0	10.1	101	85 - 115	
Mercury	1.00	0.917	. 92	85 - 115	
Thallium	8.00	7.81	98	85 - 115	

Analysis Batch: 680-88954

Prep Batch: 680-88392

Units: ug/L

Lab Control Spike - Batch: 680-88392

Lab Sample ID: LCS 680-88392/12-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/22/2007 1511 Date Prepared: 10/16/2007 0803

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	20.0	100	85 - 115	
Selenium	20.0	19.8	99	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Lab Control Spike - Batch: 680-88392

Lab Sample ID: LCS 680-88392/12-A Client Matrix: Water Dilution 10 D D

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 680-88392

Method: 200.8 Preparation: 200

MS Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	680-31032-1 Water 1.0 10/18/2007 2008 10/16/2007 0803	Analysis Batch: 680-88954 Prep Batch: 680-88392	Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL
MSD Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	680-31032-1 Water 1.0 10/18/2007 2014 10/16/2007 0803	Analysis Batch: 680-88954 Prep Batch: 680-88392	Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

	<u>%</u>	Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	92	92	70 - 130	0	20		
Barium	98	101	70 - 130	2	20		
Beryllium	89	93	70 - 130	5	20		
Cadmium	-85	84	70 - 130	0	20		
Chromium	96	98	70 - 130	2	20 ·	В	В
Copper	. 89	90	70 - 130	1	20		
Lead	. 92	93	70 - 130	· 1	20		
Mercury	98	99	70 - 130	0	20		
Thallium	90	91	70 - 130	1	20		

Job Number: 680-31032-1 Sdg Number: 31032

Client: TN & Associates

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 680-88392

Method: 200.8 Preparation: 200

MS Lab Sample ID:	680-31032-1	Analysis Batch: 680-88954	Instrument ID: ICP MS
Client Matrix:	vvater	Prep Batch: 680-88392	Lab File ID: N/A
Date Analyzed	10/22/2007 1533		Final Weight Volume: 50 mL
Date Prepared:	10/16/2007 0803		
MSD Lab Sample ID:	680-31032-1	Analysis Batch: 680-88954	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88392	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1539		Final Weight/Volume: 50 mL
Date Prepared:	10/16/2007 0803		
· · ·		<u>% Rec.</u>	· · · · · · · · · · · · · · · · · · ·
Analyte		MS MSD Limit	RPD RPD Limit MS Qual MSD Qua

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	84	85	70 - 130	2	20		
Selenium	79	80	70 - 130	1	20		

Job Number: 680-31032-1 Sdg Number: 31032

Method Blank - Batch: 680-88322 Method: 335.4 Preparation: Distillation Lab Sample ID: MB 680-88322/1-A Analysis Batch: 680-88481 Instrument ID: No Equipment Assigned Client Matrix: Water Prep Batch: 680-88322 Lab File ID: N/A Dilution: 1.0 Units: mg/L Initial Weight/Volume: 50 mL Date Analyzed: 10/17/2007 0734 Final Weight/Volume: 50 mL

	• •				
Analyte	· ·	Result .	Qual	MDL	RL
Cyanide, Total	a na 1997, ang	0.010	U	0.0050	0.010

Lab Control Spike/

Date Prepared: 10/15/2007 1115

Client: TN & Associates

Lab Control Spike Duplicate Recovery Report - Batch: 680-88322

Method: 335.4 Preparation: Distillation

LCS Lab Sample ID:	LCS 680-88322/2-A	Analysis Batch: 680-88481	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 680-88322	Lab File ID: N/A
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 50 mL
Date Analyzed:	10/17/2007 0735		Final Weight/Volume: 50 mL
Date Prepared:	10/15/2007 1115		· -
LCSD Lab Sample I	D: LCSD 680-88322/3-A	Analysis Batch: 680-88481	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 680-88322	Lab File ID: N/A
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 50 mL
Date Analyzed:	10/17/2007 0735		Final Weight/Volume: 50 mL
Date Prepared:	10/15/2007 1115		

·	<u>% F</u>	Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide, Total	102	103	90 - 110	1	20		**************************************

Client: TN & Associates

Job Number: 680-31032-1 Sdg Number: 31032

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 680-88322

Method: 335.4 Preparation: Distillation

MS Lab Sample ID:	680-31032-2	Analysis Batch: 680-88481	Instrument ID: No Equipment Assigned
Client Matrix:	vvater	Prep Batch: 680-88322	Lad File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/17/2007 0742	· · ·	Final Weight/Volume: 50 mL
Date Prepared:	10/15/2007 1115		
MSD Lab Sample ID:	680-31032-2	Analysis Batch: 680-88481	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 680-88322	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	10/17/2007 0743		Final Weight/Volume: 50 mL
Date Prepared:	10/15/2007 1115		

	<u>% Re</u>	<u>:C.</u>			•		
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide, Total	96	104	90 - 110	8	20		

		_								Seria	al Nur	nber	73	77	9			
SEVERN	ANALYSIS REQUE	ST AND CHA	IN OF CUSTODY I	RECORD	e	STL Sava 5102 LaR Savannah	annah Roche / I, GA 3	\venue 1404				, F F	Vebsite: Thone: Tax: (91	: www (912) 1 (2) 351	stl-inc 354-78 2-0165	com 58		
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Login Sample Receipt Check List

Client: TN & Associates

Job Number: 680-31032-1 SDG Number: 31032

List Source: TestAmerica Savannah

Login Number: 31032 Creator: Conner, Keaton List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	· · · ·
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	· .
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	RP-MW-01:1 Liter received broken for 508.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	



ANALYTICAL REPORT

Job Number: 680-30941-1

SDG Number: 30941

Job Description: Red Panther Chemical Site - Clarksdale

For:

TN & Associates 1220 Kennestone Circle Suite D Marietta, GA 30066 Attention: Ms. Allyson Warrington

Terry Honsle

Terry Hornsby Project Manager I terry.hornsby@testamericainc.com 10/31/2007

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

 TestAmerica Laboratories, Inc.

 TestAmerica Savannah
 5102 LaRoche Avenue, Savannah, GA 31404

 Tel (912) 354-7858
 Fax (912) 352-0165

 www.testamericainc.com



METHOD SUMMARY

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Description	Lab Location	Method	Preparation Method
Matrix Water		,	
Purgeable Organic Compounds in Water by GC/MS	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds in Drinking Water by GCMS Determination of Semivolatile Organic Compounds in	TAL SAV TAL SAV	EPA 525.2	EPA 525.2
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography EDB, DBCP, and 123TCP in Water by Microextraction	TAL SAV TAL SAV	EPA-01 504.1	EPA-DW 504.1
Chlorinated Pesticides in Water by GC/ECD Separatory funnel extraction for method 508	TAL SAV TAL SAV	EPA 508	EPA 508
Chlorinated Acids in Water by Gas Chromatography Chlorinated Acids in Water by Gas Chromatography	TAL SAV TAL SAV	EPA-01 515.1	EPA-DW 515.1
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography Continuous Liquid-Liquid Extraction	TAL SAV TAL SAV	SW846 8081A_	_8082 SW846 3520C
ICP Metals by 200.7 200 Series Drinking Water Prep Determination Step	TAL SAV TAL SAV	EPA 200.7 Rev	4.4 EPA 200
ICPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step	TAL SAV TAL SAV	EPA 200.8	EPA 200
Cyanide, Total (Semi-Automated Colorimetry) Distillation/Cyanide	TAL SAV TAL SAV	MCAWW 335.4	t Distillation

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received		
680-30941-1TB	RP-TB-01	Drinking Water	10/08/2007 1530	10/10/2007 0912		
680-30941-2	RP-MW-02	Drinking Water	10/08/2007 1520	10/10/2007 0912		
680-30941-3	RP-MW-05	Drinking Water	10/08/2007 1520	10/10/2007 0912		

Client: TN & Associates

Client Sample ID:	RP-TB-01		5				
Lab Sample ID: Client Matrix:	680-30941-1TB Drinking Water	Date Sampled: Date Received:	10/08/2007 1530 10/10/2007 0912				
524.2 Purgeable Organic Compounds in Water by GC/MS							

Method:	524.2	Analysis Batch: 680-88090	Instrument ID:	GC/MS V	olatiles - U
Preparation:	N/A	•	Lab File ID:	u6804.d	
Dilution:	1.0		Initial Weight/Volu	ume: 5	5 mL
Date Analyzed:	10/11/2007 1417		Final Weight/Volu	ume: 🕴	5 mL
Date Prepared:	N/A		••		

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Chlorobenzene	0.50	U	0.19	0.50	
cis-1,2-Dichloroethene	0.50	U	0.25	0.50	
1,2-Dichlorobenzene	0.50	Ū	0.23	0.50	
1,4-Dichlorobenzene	0.50	U	0.17	0.50	
1,1-Dichloroethene	0.50	U	0.24	0.50	
1,2-Dichloropropane	0.50	U	0.22	0.50	
Ethylbenzene	0.50	U	0.18	0.50	
Methylene Chloride	0.50	U	0.21	0.50	
Tetrachloroethene	0.50	υ	0.22	0.50	
Toluene	0.50	U	0.21	0.50	
trans-1,2-Dichloroethene	0.50	U	0.22	0.50	
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50	
1,1,1-Trichloroethane	0.50	U	0.16	0.50	
Vinyl chloride	0.50	υ	0.29	0.50	
Xylenes, Total	0.50	U	0.44	0.50	
1,2-Dichloroethane	0.50	U	0.19	0.50	
Carbon tetrachloride	0.50	U	0.38	0.50	
Trichloroethene	0.50	U ·	0.20	0.50	
1,1,2-Trichloroethane	0.50	U	0.25	0.50	
Benzene	0.50	U	0.19	0.50	
Styrene	0.50	U	0.30	0.50	
Surrogate	%Rec		Accep	tance Limits	
1,2-Dichlorobenzene-d4	89		70 -	130	
4-Bromofluorobenzene	91		70 -	130	

Client: TN & Associates

Client Sample ID): RP-MW-02				-	
Lab Sample ID: Client Matrix:	680-30941-2 Drinking Water			Date Sample Date Receiv	ed: 10/08/2007 1520 ed: 10/10/2007 0912	
	524.2 Pi	urgeable Organic Compounds ir	n Water b	y GC/MS		_
Method:	524.2	Analysis Batch: 680-88090		Instrument ID:	GC/MS Volatiles - U	
Preparation:	N/A			Lab File ID:		
Dilution:	1.0			Initial Weight/Vol	ume: 5 mL	
Date Analyzed:	10/11/2007 1437			Final Weight/Vol	ume: 5 mL	
Date Prepared:	N/A					
Analyte		Result (ug/L)	Qualifie	er MDL	RL	
Chlorobenzene		0.50	U	0.19	0.50	
cis-1,2-Dichloroet	thene	0.50	U	0.25	0.50	
1,2-Dichlorobenz	ene	0.50	U	0.23	0.50	
1,4-Dichlorobenz	ene	0.50	U	0.17	0.50	
1,1-Dichloroether	ne	0.50	U	0.24	0.50	
1,2-Dichloropropa	ane	• 0.50	U	0.22	0.50	
Ethylbenzene		0.50	U	0.18	0.50	
Methylene Chlori	de	0.50	U	0.21	0.50	
Tetrachloroethen	e	0.50	U	0.22	0.50	
Toluene		0.50	U	0.21	0.50	
trans-1,2-Dichlor	oethene	0.50	U	0.22	0.50	
1,2,4-Trichlorobe	enzene	0.50	U	0.10	0.50	
1,1,1-Trichloroetl	hane	0.50	U	0.16	0.50	
Vinyl chloride		0.50	U	0.29	0.50	
Xylenes, Total	•	0.50	U	0.44	0.50	
1,2-Dichloroetha	ne	0.50	U	0.19	0.50	
Carbon tetrachlo	ride	0.50	U	0.38	0.50	
Trichloroethene		0.50	U	0.20	0.50	
1,1,2-Trichloroet	hane	0.50	U	0.25	0.50	
Benzene		0.50	U	0.19	0.50	
Styrene		0.50	U .	0.30	0.50	
Surrogate		'%Rec		Ac	ceptance Limits	
1,2-Dichloroben	zene-d4	91		1	70 - 130	
4-Bromofluorobe	enzene	89		-	70 - 130	

Client: TN & Associates

Client Sample ID:	RP-MW-05			· · · · · · · · · · · · · · · · · · ·
Lab Sample ID:	680-30941-3		Date Sampled:	10/08/2007 1520
Client Matrix:	Drinking Water		Date Received:	10/10/2007 0912
	524.2 P	urgeable Organic Compounds in Wa	ater by GC/MS	
Mothod	524.2	Analysis Rateb: 690,99000	lastsimont ID: C(C/MC Volatilaa

Method:	524.2	Analysis Batch: 680-88090	Instrument ID:	GC/MS \	vola	tiles - U
Preparation:	N/A		Lab File ID:	u6806.d		
Dilution:	1.0	· · ·	Initial Weight/Volu	ume:	5 r	nL
Date Analyzed:	10/11/2007 1457		Final Weight/Volu	ime:	5 r	nL
Date Prepared:	N/A	· .				

Analyte	Result (ua/L)	Qualifier	MDI	RI
Chlorobenzene	0.50	II	0.19	0.50
cis-1 2-Dichloroethene	0.50	Ŭ,	0.25	0.50
1.2-Dichlorobenzene	0.50	ŭ	0.23	0.50
1.4-Dichlorobenzene	0.50	Ŭ ·	0.17	0.50
1.1-Dichloroethene	0.50	ŭ	0.24	0.50
1.2-Dichloropropane	0.50	Ŭ.	0.22	0.50
Ethylbenzene	0.50	Ū	0.18	0.50
Methylene Chloride	0.50	Ŭ	0.21	0.50
Tetrachloroethene	0.50	Ŭ	0.22	0.50
Toluene	0.50	Ū	0.21	0.50
trans-1,2-Dichloroethene	0.50	Ū	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	Ŭ	0.38	0.50
Trichloroethene	0.50	U	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50
Surrogate	%Rec		Accep	tance Limits
1,2-Dichlorobenzene-d4	90	· · ·	70 -	130
4-Bromofluorobenzene	90		70 -	130

Client: TN & Associates

Client Sample ID:	RP-MW-02	· · · ·			
Lab Sample ID: Client Matrix:	680-30941-2 Drinking Water			Date Sampled: Date Received:	10/08/2007 1520 10/10/2007 0912
	525.2 Semivo	latile Organic Compounds in D	rinking Wat	er by GCMS	
Method:	525.2	Analysis Batch: 680-88317	Ins	strument ID: Mas	s Spec LC - R
Preparation:	525.2	Prep Batch: 680-88135	La	b File ID: R43	28.D
Dilution:	1.0		Ini	tial Weight/Volume:	1035 mL
Date Analyzed:	10/12/2007 1644		Fir	nal Weight/Volume:	1 mL
Date Prepared:	10/12/2007 0942		- Inj	ection Volume:	1 uL
Analyte		Result (ug/L)	Qualifier	MDL	RL
Alachlor		0.19	υ	0.058	0.19
Atrazine		0.19	U	0.042	0.19
Simazine		0.48	U	0.073	0.48
Benzo[a]pyrene		0.19	U	0.024	0.19
Bis(2-ethylhexyl) p	ohthalate	1.9	U	0.48	1.9
Di(2-ethylhexyl)ad	lipate	1.4	U	0.48	1.4
Endrin		0.48	U	0.12	0.48
Hexachlorobenzer	ne	0.19	U	0.031	0.19
Hexachlorocyclop	entadiene	1.9	U	0.054	1.9
Surrogate		%Rec		Accepta	ince Limits
Triphenylphospha	ite	99		70 - 13	30 ·
2-Nitro-m-xylene		96		70 - 13	30
Perviene-d12	•	92		70 - 13	30
Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Client Sample ID:	RP-MW-05			
Lab Sample ID: Client Matrix	680-30941-3 Drinking Water	۰. ۱	Date Sampled:	10/08/2007 1520

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

Method: Preparation	525.2 525.2	Analysis Batch: 680-88317 Prep Batch: 680-88135	ln 1	istrument ID: Ma ab File ID: R43	ss Spec LC - R 329 D	
Dilution:	1.0		L.	nitial Weight/Volume	: 1025 mL	
Date Analyzed	10/12/2007 1706		F	inal Weight Volume	1 ml	
Date Prepared:	10/12/2007 0942		ir Ir	njection Volume:	1 uL	
Analyte		Result (uo/L)	Qualifier	MDI	RL	
Alachlor		0.20		0.059	0.20	
Atrazine		0.20	Ŭ	0.042	0.20	
Simazine		0.49	Ŭ	0.074	0.49	
Benzo[a]pyrene		0.20	Ŭ	0.024	0.20	
Bis(2-ethylhexyl)	phthalate	2.0	Ŭ	0.49	2.0	
Di(2-ethylhexyl)a	dipate	1.5	U	0.49	1.5	
Endrin		0.49	υ	0.12	0.49	
Hexachlorobenze	ene	0.20	U	0.031	0.20	
Hexachlorocyclo	pentadiene	2.0	υ	0.055	2.0	·
Surrogate		%Rec		Accept	ance Limits	
Triphenylphosph	ate	103		70 - 1	30	· · ·
2-Nitro-m-xylene		117		70 - 1	30	
Pervlene-d12		84		70 - 1	30	

Client: TN & Associates

Client Sample ID:	RP-MW-02				Sag Number: 30941
Lab Sample ID: Client Matrix:	680-30941-2 Drinking Water			Date Sampled: Date Received:	10/08/2007 1520 10/10/2007 0912
	504.1 EDB, DBCP, and	123TCP in Water by Microextra	action and G	as Chromatogra	phy
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	504.1 504.1 1.0 10/15/2007 1802 10/15/2007 1030	Analysis Batch: 680-88440 Prep Batch: 680-88289	Inst Lab Init Fin Inje Col	trument ID: GC 5 File ID: xj1 ial Weight/Volume al Weight/Volume ection Volume: lumn ID: F	C SemiVolatiles - X 50028.d e: 36.00 mL e: 2 mL 1 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Ch Ethylene Dibromid	loropropane le	0.019 0.019	U*	0.0034	0.019 0.019
Surrogate		%Rec	Acceptance Limits		
	pane-(Surr)	11		70 - 1	130

Client: TN & Associates

Client Sample ID:	RP-MW-05		Sdg Number: 3094
Lab Sample ID:	680-30941-3	Date Sampled:	10/08/2007 1520
Client Matrix:	Drinking Water	Date Received:	10/10/2007 0912
	504.1 EDB, DBCP, and 123TCP in Water	by Microextraction and Gas Chromatogra	phy

Method: Preparation:	504.1 504.1	Analysis Batch: 680-88440 Prep Batch: 680-88289	Inst Lab	rument ID: File ID:	GC SemiVolatiles - X xi150032.d	
Dilution:	1.0	• • • • • • •	Initia	al Weight/Vol	ume: 36.94 mL	
Date Analyzed:	10/15/2007 1832		Fina	al Weight/Volu	ume: 2 mL	
Date Prepared:	10/15/2007 1030		Inje	ction Volume:	1 uL	
	, .		Col	umn ID:	PRIMARY	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
1,2-Dibromo-3-Cl	hloropropane	0.019	U*	0.0033	0.019	
Ethylene Dibromi	de	0.019	U 0.0040 0.019			
Surrogate		%Rec	·	Acc	ceptance Limits	
1,2,3-Trichloropr	opane-(Surr)	86		7(D - 130	

Client: TN & Associates

Client Sample ID	: RP-MW-02				0
Lab Sample ID: Client Matrix:	680-30941-2 Drinking Water			Date Sampled: 1 Date Received: 1	0/08/2007 1520 0/10/2007 0912
	508	Chlorinated Pesticides in Wate	er by GC/	ECD	
Method:	508	Analysis Batch: 680-88162		Instrument ID: GC S	emiVolatiles - J
Preparation:	508	Prep Batch: 680-87996		Lab File ID: jj1008	33.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	10/11/2007 1945			Final Weight/Volume:	5.0 mL
Date Prepared:	10/11/2007 0825			Injection Volume:	1 uL
·		· .		Column ID: PRI	MARY
Analyte		Result (ug/L)	Qualifie	er MDL	RL
Chlordane (techni	cal)	0.50	U	0.052 ·	0.50
PCB-1016		1.0	U	0.13	1.0
PCB-1221		1.0	U	0.19	1.0
PCB-1232		1.0	U	0.10	1.0
PCB-1242		1.0	U	0.17	1.0
PCB-1248		1.0	U	0.10	1.0
PCB-1254		1.0	U	0.11	1.0
PCB-1260		1.0	U	0.092	1.0
Toxaphene		5.0	U	0.50	5.0
Polychlorinated bi	iphenyls, Total	1.0	U	0.19	1.0
Surrogate		%Rec		Acceptan	ce Limits
DCB Decachlorol	biphenyl	89		70 - 130) .
Tetrachloro-m-xy	lene	103		70 - 130)

Client: TN & Associates

Client Sample ID	: RP-MW-05			·	
Lab Sample ID: Client Matrix:	680-30941-3 Drinking Water			Date Sampled: 1 Date Received: 1	0/08/2007 1520 0/10/2007 0912
· · · · · · · · · · · · · · · · · · ·	508	3 Chlorinated Pesticides in Wate	er by GC/I	ECD	· · · · · · · · · · · · · · · · · · ·
Method:	508	Analysis Batch: 680-88162		Instrument ID: GC Se	emiVolatiles - J
Preparation:	508	Prep Batch: 680-87996		Lab File ID: jj1008	4.d
Dilution:	1.0	·		Initial Weight/Volume:	1030 mL
Date Analyzed:	10/11/2007 2008			Final Weight/Volume:	5.0 mL
Date Prepared:	10/11/2007 0825			Injection Volume:	1 uL
	· · ·			Column ID: PRII	MARY
Analyte		Result (ug/L)	Qualifie	r MDL	RL
Chlordane (techni	ical)	0.24	U	0.025	0.24
PCB-1016		0.49	U	0.065	0.49
PCB-1221		0.49	U	0.093	0.49
PCB-1232		0.49	U	0.050	0.49
PCB-1242		0.49	U	0.083	0.49
PCB-1248		0.49	U	0.050	0.49
PCB-1254		0.49	U	0.055	0.49
PCB-1260		0.49	U	0.045	0.49
Toxaphene		2.4	U	0.24	2.4
Polychlorinated b	iphenyls, Total	0.49	U	0.093	0.49
Surrogate		%Rec		Acceptan	ce Limits
DCB Decachloro	biphenyl	74		70 - 130	,
Tetrachloro-m-yv	lone	103		70 - 130	

Client: TN & Associates

Client Sample ID:	RP-MW-02	· 、 、			Sdg Number: 30	941
Lab Sample ID: Client Matrix:	680-30941-2 Drinking Water			Date Sampled: Date Received:	10/08/2007 1520 10/10/2007 0912	
	515.1 Cł	nlorinated Acids in Water by Gas	s Chroma	tography		
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	515.1 515.1 1.0 10/16/2007 2137 10/15/2007 0754	Analysis Batch: 680-88469 Prep Batch: 680-88269		Instrument ID: G Lab File ID: sj Initial Weight/Volum Final Weight/Volume Injection Volume: Column ID:	C SemiVolatiles - S 16019.d e: 500 mL e: 5 mL 1 uL PRIMARY	
Analyte		Result (ug/L)	Qualifie	r MDL	RL	
Pentachlorophenol		1.0	U	0.025	1.0	
Surrogate		%Rec		Accep	tance Limits	
2,4-Dichloropheny	lacetic acid	109		70 -	130	
				, ·		

Client: TN & Associates

Client Sample ID: RP-MW-05 Lab Sample ID: 680-30941-3 **Client Matrix: Drinking Water**

Job Number: 680-30941-1 Sdg Number: 30941

10/08/2007 1520

10/10/2007 0912

Date Sampled:

Date Received:

		515.1 Chlori	nated Acids in Water by Gas	s Chromat	ography		
Method:	515.1		Analysis Batch: 680-88469	li	nstrument ID:	GC Ser	niVolatiles - S
Preparation:	515.1°		Prep Batch: 680-88269	· L	ab File ID:	_sj16020).d
Dilution:	1.0			1	nitial Weight/Vol	ume:	1030 mL
Date Analyzed:	10/16/2007	2158		F	inal Weight/Volu	ume:	10 mL
Date Prepared:	10/15/2007	0754		li	njection Volume:	<u>:</u>	1 uL
				. C	Column ID:	PRIM	ARY
Analyte			Result (ug/L)	Qualifier	MDL		RL
Pentachlorophenc			0.97	U	0.024		0.97
Surrogate			%Rec		Acc	eptance	Limits
2,4-Dichloropheny	lacetic acid		105	······	7() - 130	

2,4-Dichlorophenylacetic acid

Client: TN & Associates

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Job Number: 680-30941-1 Sdg Number: 30941

Client Sample ID:	RP-MW-02					
Lab Sample ID:	680-30941-2	Date	e Sampled:	10/08/2007	1520	
Client Matrix:	Drinking Water	Date	e Received:	10/10/2007	0912	

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8081A_8082 3520C 1.0 10/12/2007 2018 10/11/2007 1200	Analysis Batch: 680-88267 Prep Batch: 680-87988	Inst Lab Initi Fin: Inje Col	rument ID: C File ID: jj al Weight/Volun al Weight/Volun ction Volume: umn ID:	SC SemiVolatiles - J 12022.d ne: 500 mL ne: 5 mL 2 uL PRIMARY	
Analyte		Result (ug/L)	Qualifier	MDL	RL	
4,4'-DDD		0.10	U	0.0059	0.10	
4,4'-DDE	÷	0.10	U	0.0098	0.10	
4,4'-DDT		0.10	U	0.015	0.10	
Aldrin		0.050	U	0.0060	0.050	
alpha-BHC		0.050	U	0.0081	0.050	
beta-BHC		0.050	U	0.0082	0.050	
Chlordane (technie	cal)	0.50	U	0.049	0.50	
delta-BHC		0.050	U	0.0069	0.050	
Dieldrin		0.10	υ	0.0078	0.10	
Endosulfan I		0.050	U	0.0055	0.050	
Endosulfan II		0.10	U	0.0050	0.10	
Endosulfan sulfate	e	0.10	U	0.0070	0.10	
Endrin		0.10	U	0.0078	0.10	
Endrin aldehyde		0.10	U	0.0090	0.10	
Endrin ketone		0.10	U	0.0091	0.10	
gamma-BHC (Line	dane)	0.050	U	0.0059	0.050	
Heptachlor		0.050	U	0.0045	0.050	
Heptachlor epoxic	de	0.050	Ŭ	0.0070	0.050	
Methoxychlor	· · ·	0.50	U	0.023	0.50	
Toxaphene		5.0	U	1.3	5.0	
Surrogate		%Rec		Acce	eptance Limits	
DCB Decachlorot	biphenyl	36		14	- 115	
Tetrachloro-m-xyl	lene	70		35	- 120	

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Client Sample ID:	RP-MW-05		
Lab Sample ID:	680-30941-3	Date Sampled:	10/08/2007 1520
Client Matrix:	Drinking Water	Date Received:	10/10/2007 0912
			ي بغالي من المحمد ا

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method:	8081A_8082	Analysis Batch: 680-88267	Instrument ID:	GC Se	miVolatiles	J
Preparation:	3520C	Prep Batch: 680-87988	Lab File ID:	jj1202	3.d	
Dilution:	1.0 .		Initial Weight/Vo	lume:	1020 mL	
Date Analyzed:	10/12/2007 2041		Final Weight/Vol	ume:	10 mL	
Date Prepared:	10/11/2007 1200		Injection Volume	e:	2 uL	
			Column ID:	PRIM	/ARY '	

Analyte	Result (ug/L)	Qualifier	MDL	RL	
4,4'-DDD	0.098	U	0.0058	0.098	
4,4'-DDE	0.098	U	0.0096	0.098	
4,4'-DDT	0.098	U	0.015	0.098	
Aldrin	0.049	U	0.0059	0.049	
alpha-BHC	0.049	· U	0.0079	0.049	
beta-BHC	0.049	U	0.0080	0.049	
Chlordane (technical)	0.49	U	0.048	0.49	
delta-BHC	0.049	U .	0.0068	0.049	
Dieldrin	0.098	U	0.0076	0.098	
Endosulfan I	0.049	U	0.0054	0.049	
Endosulfan II	0.098	U	0.0049	0.098	
Endosulfan sulfate	0.098	U	0.0069	0.098	
Endrin	0.098	U	0.0076	0.098	
Endrin aldehyde	0.098	U	0.0088	0.098	
Endrin ketone	0.098	U	0.0089	0.098	
gamma-BHC (Lindane)	0.049	. U	0.0058	0.049	
Heptachlor	0.049	U	0.0044	0.049	
Heptachlor epoxide	0.049	U	0.0069	0.049	
Methoxychlor	0.49	U	0.023	0.49	
Toxaphene	4.9	U	1.3	4.9	
Surrogate	%Rec		Accepta	ance Limits	
DCB Decachlorobiphenyl	34		14 - 1	15	
Tetrachloro-m-xylene	56		35 - 1	20	

Client: TN & Associates

RP-MW-02

Client Sample ID:

Job Number: 680-30941-1 Sdg Number: 30941

Lab Sample ID: 680-30941-2 Date Sampled: 10/08/2007 1520 Client Matrix: **Drinking Water** Date Received: 10/10/2007 0912 200.7 Rev 4.4 ICP Metals by 200.7 Method: 200.7 Rev 4.4 Analysis Batch: 680-88457 Instrument ID: **ICP/AES** Preparation: 200 Prep Batch: 680-88095 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 50 mL Date Analyzed: 10/15/2007 1733 Final Weight/Volume: 50 mL Date Prepared: 10/11/2007 1656 Analyte Result (ug/L) Qualifier MDL RL Aluminum 200 Ū 28 200 Iron 52 50 26 Silver 10 υ 0.70 10 Calcium 500 25 500 Copper 20 20 U 2.2 Manganese 3.7 10 J 2.2 Nickel 40 40 U 2.0 Zinc 4.8 4.7 20 200.8 ICPMS Metals by 200.8 Method: ICP MS 200.8 Analysis Batch: 680-88946 Instrument ID: Preparation: 200 Prep Batch: 680-88097 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 50 mL Date Analyzed: 10/18/2007 1837 Final Weight/Volume: 50 mL Date Prepared: 10/11/2007 1711 Analyte Result (ug/L) Qualifier MDL RL Antimony 0.50 0.50 U 0.082 Barium 3.5 2.0 0.52 Beryllium 0.40 U 0.40 0.12 Cadmium 0.10 U 0.058 0.10 Chromium 1.3 В 0.24 1.0 Copper 4.6 В 0.26 1.0 Lead 0.76 В 0.054 0.30 Mercury 0.092 JΒ 0.044 0.10 Thallium 0.20 U 0.096 0.20 Method: Analysis Batch: 680-88946 ICP MS 200.8 Instrument ID: Preparation: 200 Prep Batch: 680-88097 N/A Lab File ID: Dilution: 50 mL 1.0 Initial Weight/Volume: Date Analyzed: 10/22/2007 1403 Final Weight/Volume: 50 mL Date Prepared: 10/11/2007 1711

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	1.0	U .	0.32	1.0
Selenium	0.61		0.16	0.50

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Client: TN & Associates

Client Sample ID: RP-MW-05

Job Number: 680-30941-1 Sdg Number: 30941

Lab Sample ID: Client Matrix:	680-30941-3 Drinking Wat	er		Dat Dat	te Sampled: te Received:	10/08/2007 1 10/10/2007 0	520 912
			200.7 Rev 4.4 ICP Metals by	200.7	/		
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 10/15/2007 175 10/11/2007 165	56 56	Analysis Batch: 680-88457 Prep Batch: 680-88095	Instrum Lab File Initial W Final W	ent ID: ID: /eight/Volume: /eight/Volume:	ICP/AES N/A 50 mL 50 mL	
Analyte			Result (ug/L)	Qualifier	MDL	RL	
Aluminum Iron Silver Calcium Copper Manganese Nickel Zinc		ł	200 55 10 490 20 3.8 40 20		28 26 0.70 25 2.2 2.2 2.2 2.0 4.7	200 50 10 500 20 10 40 20	,
		·····	200.8 ICPMS Metals by 2	00.8			
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 10/18/2007 18 10/11/2007 17	43 11	Analysis Batch: 680-88946 Prep Batch: 680-88097	Instrum Lab Fil Initial V Final V	nent ID: e ID: Veight/Volume: Veight/Volume:	ICP MS N/A 50 mL 50 mL	
Analyte			Result (ug/L)	Qualifier	MDL	RL	
Antimony Barium Beryllium Cadmium Chromium Copper Lead Mercury Thallium			0.50 3.5 0.40 0.10 1.5 4.7 0.80 0.094 0.20	U U B B B J B J B U	0.082 0.52 0.12 0.058 0.24 0.26 0.054 0.054 0.044 0.096	0.50 2.0 0.40 0.10 1.0 1.0 0.30 0.10 0.20	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 10/22/2007 1 10/11/2007 1	408 711	Analysis Batch: 680-88946 Prep Batch: 680-88097	Instrur Lab Fi Initial V Final V	nent ID: le ID: Weight/Volume Neight/Volume:	ICP MS N/A 50 mL 50 mL	
Analyte			Result (ug/L)	Qualifier	MDL	RL	
Arsenic Selenium			1.0 0.48	U.J	0.32 0.16	1.0 0.50	

Client: TN & Associates

		General Chemistry			
Client Sample ID:	RP-MW-02				
Lab Sample ID:	680-30941-2		Date Sampled:	10/08	3/2007 1520
Client Matrix:	Drinking Water		Date Received:	10/10	0/2007 0912
Analyte	Result	Qual Units MDL	RL	Dil	Method
Cyanide, Total	0.010	U mg/L 0.0050	0.010	1.0	335.4
	Anly Batch: 680-88262	Date Analyzed 10/12/2007 1407			
	Prep Batch: 680-88118	Date Prepared: 10/12/2007 0801			
Client Sample ID:	RP-MW-05				
Lab Sample ID:	680-30941-3		Date Sampled:	10/08	8/2007 1520
Client Matrix:	Drinking Water		Date Received:	10/10	0/2007 0912
Analyte	Result	Qual Units MDL	RL	Dil	Method
Cyanide, Total	0.010	U mg/L 0.0050	0.010	1.0	335.4
	Anly Batch: 680-88262	Date Analyzed 10/12/2007 1408			
	Prep Batch: 680-88118	Date Prepared: 10/12/2007 0801			

DATA REPORTING QUALIFIERS

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC Semi VOA		
	U .	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	в	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	j	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

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Job Number: 680-30941-1 Sdg Number: 30941

Client: TN & Associates

Surrogate Recovery Report

524.2 Purgeable Organic Compounds in Water by GC/MS

<u>Client Matrix: Water</u>						
Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec			
LCS 680-88090/13		96	96			
MB 680-88090/14.		88	89			
680-30941-1	RP-TB-01	89	91			
680-30941-2	RP-MW-02	91	89			
680-30941-3	RP-MW-05	90	90			

Surrogate		Acceptance Limits
12DCB	1,2-Dichlorobenzene-d4	70 - 130
BFB	4-Bromofluorobenzene	70 - 130

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Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Surrogate Recovery Report

525.2 Semivolatile Organic Compounds in Drinking Water by GCMS

<u>Client Matrix: water</u>				
Lab Sample ID	Client Sample ID	2NMX %Rec	PD12 %Rec	TPP %Rec
LCS 680-88135/7-A		107	85	99
MB 680-88135/6-A		108	82	105
680-30941-2	RP-MW-02	96	92	99
680-30941-3	RP-MW-05	117	84	103

Surrogate		Acceptance Limits
2NMX	2-Nitro-m-xylene	70 - 130
PD12	Perylene-d12	70 - 130
TPP	Triphenylphosphate	70 - 130

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Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Wate	<u>r</u>			
Lab Sample ID	Client Sample ID	TCP1 %Rec	TCP2 %Rec	
LCS 680-88289/5-A			113	
LCSD 680-88289/6-A		109		
MB 680-88289/4-A			94	
680-30941-2	RP-MW-02		77	
680-30941-3 ` _*	RP-MW-05	86		
Surrogate				Acceptance Limits
107 1	,2,3-Trichloropropane-(Surr)			70 - 130

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Job Number: 680-30941-1 Sdg Number: 30941

Client: TN & Associates

Surrogate Recovery Report

508 Chlorinated Pesticides in Water by GC/ECD

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB2 %Rec	TCX2 %Rec
LCS 680-87996/8-A		110	109
MB 680-87996/6-A		98	96
680-30941-2	RP-MW-02	89	103
680-30941-3	RP-MW-05	74	103

Surrogate	,	Acceptance Limits
DCB	DCB Decachlorobiphenyl	70 - 130
TCX	Tetrachloro-m-xylene	70 - 130

Job Number: 680-30941-1 Sdg Number: 30941

Client: TN & Associates

Surrogate Recovery Report

515.1 Chlorinated Acids in Water by Gas Chromatography

Client Matrix: Water						
Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec			
LCS 680-88269/16-A			108			
LCSD 680-88269/17-C			109			
MB 680-88269/15-A			118			
680-30941-2	RP-MW-02	109				
680-30941-3	RP-MW-05		105			

Surrogate		Acceptance Limits
DCPA	2,4-Dichlorophenylacetic acid	70 - 130

TestAmerica Savannah

Page 25 of 42

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Water			
Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
LCS 680-87988/17-A		69	60
MB 680-87988/16-A		56	67 ·
680-30941-2	RP-MW-02	36	70
680-30941-3	RP-MW-05	34	56

Surrogate		Acceptance Limits
DCB	DCB Decachlorobiphenyl	14 - 115
TCX	Tetrachloro-m-xylene	35 - 120

TestAmerica Savannah

Job Number: 680-30941-1 Sdg Number: 30941

Method: 524.2 **Preparation: N/A**

Instrument ID: GC/MS Volatiles - U Lab File ID: uq2278.d Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chlorobenzene	0.50	U	0.19	0.50
cis-1,2-Dichloroethene	0.50	U	0.25	0.50
1,2-Dichlorobenzene	0.50	U	0.23	0.50
1,4-Dichlorobenzene	0.50	U	0.17	0.50
1,1-Dichloroethene	0.50	U	0.24	0.50
1,2-Dichloropropane	0.50	U	0.22	0.50
Ethylbenzene	0.50	U	0.18	0.50
Methylene Chloride	0.50	ປ	0.21	0.50
Tetrachloroethene	0.50	υ	0.22	0.50
Toluene	0.50	U	0.21	0.50
trans-1,2-Dichloroethene	0.50	U	0.22	0.50
1,2,4-Trichlorobenzene	0.50	U	0.10	0.50
1,1,1-Trichloroethane	0.50	U	0.16	0.50
Vinyl chloride	0.50	U	0.29	0.50
Xylenes, Total	0.50	U	0.44	0.50
1,2-Dichloroethane	0.50	U	0.19	0.50
Carbon tetrachloride	0.50	U	0.38	0.50
Trichloroethene	0.50	Ú	0.20	0.50
1,1,2-Trichloroethane	0.50	U	0.25	0.50
Benzene	0.50	U	0.19	0.50
Styrene	0.50	U	0.30	0.50
Surrogate	% Rec		Acceptance Limits	
1,2-Dichlorobenzene-d4	88		70 - 130	
4-Bromofluorobenzene	89		70 - 130	

Analysis Batch: 680-88090

Prep Batch: N/A

Units: ug/L

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88090

Lab Sample ID: MB 680-88090/14

1.0 Date Analyzed: 10/11/2007 1222

Client Matrix: Water

Date Prepared: N/A

Dilution:

Job Number: 680-30941-1 Sdg Number: 30941

Method: 524.2 Preparation: N/A

Lab Sample ID:	LCS 680-88090/13	Analysis Batch: 680-88090	Instrument ID: GC/MS Volatiles - U
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: uq2276.d
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 5 mL
Date Analyzed:	10/11/2007 1055		Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chlorobenzene	20.0	21.6	108	70 - 130	
cis-1,2-Dichloroethene	20.0	21.4	107	70 - 130	
1,2-Dichlorobenzene	20.0	20.6	103	70 - 130	-
1.4-Dichlorobenzene	20.0	20.8	104	70 - 130	
1,1-Dichloroethene	20.0	22.8	114	70 - 130	
1,2-Dichloropropane	20.0	22.9	114	70 - 130	
Ethylbenzene	20.0	21.8	109	70 - 130	
Methylene Chloride	20.0	21.6	108	70 - 130	
Tetrachloroethene	20.0	22.2	111	70 - 130	
Toluene	20.0	21.8	109	70 - 130	
trans-1.2-Dichloroethene	20.0	22.3	112	70 - 130	
1,2,4-Trichlorobenzene	20.0	21.3	107	70 - 130	
1,1,1-Trichloroethane	20.0	21.7	109	70 - 130	
Vinyl chloride	20.0	22.5	113	70 - 130	
Xvienes, Totai	60.0	64.7	108	70 - 130	
1.2-Dichloroethane	20.0	22.7	113	70 - 130	
Carbon tetrachloride	20.0	20.6	103	70 - 130	
1.1.2-Trichloroethane	20.0	21.5	107	70 - 130	
Benzene	20.0	23.2	116	70 - 130	
Styrene	20.0	21.5	108	70 - 130	
Surrogate	% F	Rec	Ad	ceptance Limits	
1,2-Dichlorobenzene-d4	96	<u> </u>	·	70 - 130	
4-Bromofluorobenzene	96	6		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Date Prepared: N/A

Lab Control Spike - Batch: 680-88090

Job Number: 680-30941-1 Sdg Number: 30941

Method: 525.2 Preparation: 525.2

Lab Sample ID:	MB 680-88135/6-A	Analysis Batch: 680-88317	Instrument ID: Mass	Spe	ec LC) - I
Client Matrix:	Water	Prep Batch: 680-88135	Lab File ID: R4324	I.D		
Dilution:	1.0	Units: ug/L	Initial Weight/Volume	: 10	000	ml
Date Analyzed:	10/12/2007 1514		Final Weight/Volume	: 1	mL	
Date Prepared:	10/12/2007 0942		Injection Volume:	1	uL	

Analyte	Result	Qual	MDL	RL	
Alachlor	0.20	U	0.060	0.20	
Atrazine	0.20	U	0.043	0.20	
Simazine	0.50	U	0.076	0.50	
Benzolajpyrene	0.20	U	0.025	0.20	
Bis(2-ethylhexyl) phthalate	2.0	U	0.50	2.0	
Di(2-ethylhexyl)adipate	1.5	U	0.50	1.5	
Endrin	. 0.50	U	0.12	0.50	
Hexachlorobenzene	0.20	U	0.032	0.20	
Hexachlorocyclopentadiene	2.0	U	0.056	2.0	
Surrogate	% Rec		Acceptance Limits		
Triphenylphosphate	105		70 - 130		
2-Nitro-m-xylene	108		70 - 130		
Perviene-d12	82		70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88135

Lab Sample ID: Client Matrix: Dilution: Date Analyzed:

Job Number: 680-30941-1 Sdg Number: 30941

Method: 525.2 Preparation: 525.2

Instrument ID: Mass Spec LC - R Lab File ID: R4325.D Initial Weight/Volume: 1000 mL Final Weight/Volume: 1 mL Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alachior	5.00	4.26	85	70 - 130	
Atrazine	5.00	4.80	96	70 - 130	
Simazine	5.00	4.51	90	70 - 130	
Benzo[a]pyrene	5.00	4.12	82	70 - 130	
Bis(2-ethylhexyl) phthalate	5.00	4.71	94	70 - 130	
Di(2-ethylhexyl)adipate	5.00	4.70	94	70 - 130	
Endrin	5.00	4.57	91	70 - 130	
Hexachlorobenzene	5.00	4.13	83	70 - 130	
Hexachlorocyclopentadiene	5.00	4.96	99	70 - 130	•
Surrogate	% R	lec	Ac	ceptance Limits	
Triphenylphosphate	99)		70 - 130	
2-Nitro-m-xylene	10	17	•.	70 - 130	
Pervlene-d12	85	i		70 - 130	

Analysis Batch: 680-88317

Prep Batch: 680-88135

Units: ug/L

Client: TN & Associates

Lab Control Spike - Batch: 680-88135

 Lab Sample ID:
 LCS 680-88135/7-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/12/2007
 1536

 Date Prepared:
 10/12/2007
 0942

Job Number: 680-30941-1 Sdg Number: 30941

Method Blank - Batch: 680-88289 Method: 504.1 Preparation: 504.1 Lab Sample ID: MB 680-88289/4-A Analysis Batch: 680-88440 Instrument ID: GC SemiVolatiles - X Client Matrix: Water Prep Batch: 680-88289 Lab File ID: xi150019.d Dilution: 1.0 Units: ug/L Initial Weight/Volume: 35 mL Date Analyzed: 10/15/2007 1655 Final Weight/Volume: 2 mL Date Prepared: 10/15/2007 1030 Injection Volume: 1 uL Column ID: PRIMARY Analyte Result Qual MDL RL. 1.2-Dibromo-3-Chloropropane 0.020 0.0035 0.020 Ü Ethylene Dibromide 0.0042 0.020 U 0.020 Surrogate Acceptance Limits % Rec 1,2,3-Trichloropropane-(Surr) 70 - 130 94 Lab Control Spike/ Method: 504.1 Lab Control Spike Duplicate Recovery Report - Batch: 680-88289 Preparation: 504.1 LCS Lab Sample ID: LCS 680-88289/5-A Analysis Batch: 680-88440 Instrument ID: GC SemiVolatiles - X Client Matrix: Water Prep Batch: 680-88289 Lab File ID: xi150020.d Dilution: 1.0 Units: ug/L Initial Weight/Volume: 35 mL Date Analyzed: 10/15/2007 1702 Final Weight/Volume: 2 mL Date Prepared: 10/15/2007 1030 Injection Volume: 1 uL Column ID: PRIMARY LCSD Lab Sample ID: LCSD 680-88289/6-A Analysis Batch: 680-88440 Instrument ID: GC SemiVolatiles - X **Client Matrix:** Water Prep Batch: 680-88289 Lab File ID: xj150021.d Dilution: 1.0 Units: ug/L Initial Weight/Volume: 35 mL Date Analyzed: 10/15/2007 1709 Final Weight/Volume: 2 mL Date Prepared: 10/15/2007 1030 Injection Volume: 1 uL Column ID: PRIMARY <u>% Rec.</u> Analyte LCS LCSD Limit RPD RPD Limit LCS Qual LCSD Qual 1,2-Dibromo-3-Chloropropane 111 133 70 - 130 18 30

 Ethylene Dibromide
 105
 101
 70 - 130
 4
 30

 Surrogate
 LCS % Rec
 LCSD % Rec
 Acceptance Limits

 1,2,3-Trichloropropane-(Surr)
 113
 109
 70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

PRIMARY

Job Number: 680-30941-1 Sdg Number: 30941

Method: 508 Preparation: 508

Column ID:

Lab Sample ID:	MB 680-87996/6-A	Analysis Batch: 680-88162	Instrument ID: GC SemiVolatiles - J
Client Matrix:	Water	Prep Batch: 680-87996	Lab File ID: jj10079.d
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 1000 mL
Date Analyzed:	10/11/2007 1813		Final Weight/Volume: 5.0 mL
Date Prepared:	10/11/2007 0825		Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	0.25	Ū	0.026	0.25
PCB-1016	0.50	U	0.067	0.50
PCB-1221	0.50	U	0.096	0.50
PCB-1232	0.50	U	0.052	0.50
PCB-1242	0.50	U	0.086	0.50
PCB-1248	0.50	U	0.052	0.50
PCB-1254	0.50	· U	0.057	0.50
PCB-1260	0.50	υ	0.046	0.50
Toxaphene	2.5	υ	0.25	2.5
Polychlorinated biphenyls, Total	0.50	U	0.096	0.50
Surrogate	% Rec		Acceptance Limits	

DCB Decachlorobiphenyl	98	70 - 130
Tetrachloro-m-xylene	96	70 - 130

Lab Control Spike - Batch: 680-87996

Client: TN & Associates

Method Blank - Batch: 680-87996

		·	
Lab Sample ID:	LCS 680-87996/8-A	Analysis Batch: 680-88162	Instrument ID: GC
Client Matrix:	Water	Prep Batch: 680-87996	Lab File ID: jj10
Dilution:	1.0	Units: ug/L	Initial Weight/Volur
Date Analyzed:	10/11/2007 1859		Final Weight/Volum
Date Prepared:	10/11/2007 0825		Injection Volume:
			Column ID: I

Method: 508 Preparation: 508

Instrument ID: GC SemiVolatiles - J Lab File ID: jj10081.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 5.0 mL Injection Volume: 1 uL Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	11.4	114	70 - 130	
PCB-1260	.10.0	11.6	116	70 - 130	·
Surrogate	% Rec		Accepta	ince Limits	
DCB Decachlorobiphenyl	. 110		70	- 130	

Job Number: 680-30941-1 Sdg Number: 30941

Method Blank - Batch: 680-88269 Method: 515.1 Preparation: 515.1 Lab Sample ID: MB 680-88269/15-A Analysis Batch: 680-88469 Instrument ID: GC SemiVolatiles - S Client Matrix: Prep Batch: 680-88269 Water Lab File ID: sj16006.d Dilution: 1.0 Units: ug/L Initial Weight/Volume: 1000 mL Date Analyzed: 10/16/2007 1703 Final Weight/Volume: 10 mL Date Prepared: 10/15/2007 0754 Injection Volume: 1 uL Column ID: PRIMARY Analyte Result Qual MDL RL Pentachlorophenol 1.0 U 0.025 1.0 Surrogate % Rec Acceptance Limits 2,4-Dichlorophenylacetic acid 118 70 - 130 Lab Control Spike/ Method: 515.1 Lab Control Spike Duplicate Recovery Report - Batch: 680-88269 Preparation: 515.1 LCS Lab Sample ID: LCS 680-88269/16-A Analysis Batch: 680-88469 Instrument ID: GC SemiVolatiles - S Client Matrix: Water Prep Batch: 680-88269 si16007.d Lab File ID: Dilution: 1.0 Units: ua/L Initial Weight/Volume: 1000 mL Date Analyzed: 10/16/2007 1724 Final Weight/Volume: 10 mL Date Prepared: 10/15/2007 0754 Injection Volume: 1 uL Column ID: PRIMARY LCSD Lab Sample ID: LCSD 680-88269/17-C Analysis Batch: 680-88469 GC SemiVolatiles - S Instrument ID: Prep Batch: 680-88269 Client Matrix: Water Lab File ID: sj16008.d Dilution: Units: ug/L Initial Weight/Volume: 1000 mL 1.0 Date Analyzed: 10/16/2007 1745 Final Weight/Volume: 10 mL Date Prepared: 10/15/2007 0754 Injection Volume: 1 · uL Column ID: PRIMARY <u>% Rec.</u> LCS LCSD Analyte Limit RPD RPD Limit LCS Qual LCSD Qual Pentachlorophenol 79 71 70 - 130 9 30 J J LCS % Rec Surrogate LCSD % Rec Acceptance Limits 2,4-Dichlorophenylacetic acid 108 70 - 130 109

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Method: 8081A_8082 Preparation: 3520C

Instrument ID: GC SemiVolatiles - J Lab File ID: jj12012.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 2 uL Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.10	U	0.0059	0.10
4,4'-DDE	0.10	U	0.0098	0.10
4,4'-DDT	0.10	U ·	0.015	0.10
Aldrin	0.050	U	0.0060	0.050
alpha-BHC	0.050	U	0.0081	0.050
beta-BHC	. 0.050	U	0.0082	0.050
Chlordane (technical)	0.50	U	0.049	0.50
delta-BHC	0.050	U	0.0069	0.050
Dieldrin	0.10	υ	0.0078	0.10
Endosulfan I	0.050	U	0.0055	0.050
Endosulfan II	0.10	U	0.0050	0.10
Endosulfan sulfate	0.10	U	0.0070	0.10
Endrin	0.10	U	0.0078	0.10
Endrin aldehyde	0.10	U	0.0090	0.10
Endrin ketone	0.10	U	0.0091	0.10
gamma-BHC (Lindane)	0.050	U	0.0059	0.050
Heptachlor	0.050	U	0.0045	0.050
Heptachlor epoxide	0.050	· U	0.0070	0.050
Methoxychlor	0.50	U	0.023	0.50
Toxaphene	5.0	U	1.3	5.0
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	56		14 - 115	
Tetrachloro-m-xvlene	67		35 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Analysis Batch: 680-88267 Prep Batch: 680-87988

Units: ug/L

Client: TN & Associates

Method Blank - Batch: 680-87988

Lab Sample ID: MB 680-87988/16-A

1.0

Date Analyzed: 10/12/2007 1627

Date Prepared: 10/11/2007 1200

Client Matrix: Water

Dilution:

Job Number: 680-30941-1 Sdg Number: 30941

Method: 8081A_8082 Preparation: 3520C

Instrument ID: GC SemiVolatiles - J Lab File ID: jj12013.d Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 2 uL Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.196	0.127	65	37 - 179	
4,4'-DDE	0.204	0.130	64	33 - 142	
4,4'-DDT	0.200	0.157	7 9	27 - 141	
Aldrin	0.103	0.0635	62	32 - 114	
alpha-BHC	0.107	0.0600	56	29 - 112	
beta-BHC	0.109	0.0783	72	15 - 204	
delta-BHC	0.105	0.0594	57	25 - 123	
Dieldrin	0.200	0.142	71	45 - 137	
Endosulfan I	0.100	0.0753	75	31 - 134	
Endosulfan II	0.200	0.144	72	24 - 144	
Endosulfan sulfate	0.203	0.159	78	44 - 128	
Endrin	0.203	0.121	59	38 - 144	
Endrin aldehyde	0.201	0.166	83 ·	37 - 135	•
Endrin ketone	0.201	0.177	88	41 - 155	
gamma-BHC (Lindane)	0.100	0.0635	64	31 - 118	
Heptachlor	0.100	0.0649	65	30 - 133	
Heptachlor epoxide	0.100	0.0729	73	34 - 126	
Methoxychlor	0.201	0.199	99	10 - 243	J .
Surrogate	% F	Rec	Ac	ceptance Limits	
DCB Decachlorobiphenyl	. 69)		14 - 115	
Tetrachloro-m-xylene	60)		35 - 120	

Analysis Batch: 680-88267

Prep Batch: 680-87988

Units: ug/L

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Client Matrix: Water

Dilution:

Lab Control Spike - Batch: 680-87988

Lab Sample ID: LCS 680-87988/17-A

1.0

Date Analyzed: 10/12/2007 1650

Date Prepared: 10/11/2007 1200

Job Number: 680-30941-1 Sdg Number: 30941

Method: 200.7 Rev 4.4 Preparation: 200

Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	28	200
Iron	50	U .	26	50
Silver	10	U	0.70	10
Calcium	500	U	25	500
Copper	20	υ	2.2	20
Manganese	10	U	2.2	10
Nickel	40	U	2.0	40
Zinc	20	U	4.7	20

Lab Control Spike - Batch: 680-88095

 Lab Sample ID:
 LCS 680-88095/6-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/15/2007
 1723

 Date Prepared:
 10/11/2007
 1656

Analysis Batch: 680-88457 Prep Batch: 680-88095 Units: ug/L

Method: 200.7 Rev 4.4 Preparation: 200

Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1910	96	85 - 115	
Iron	1000	1010	101	85 - 115	
Silver	50.0	50.0	100	85 - 115	
Calcium	5000	· 5200	104	85 - 115	
Copper	250	249	100	85 - 115	
Manganese	500	527	105	85 - 115	
Nickel	500	518	104	85 - 115	
Zinc	500	520	104	85 - 115	
•					

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

Method Blank - Batch: 680-88095

 Lab Sample ID:
 MB 680-88095/5-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/15/2007
 1719

 Date Prepared:
 10/11/2007
 1656

Analysis Batch: 680-88457 Prep Batch: 680-88095 Units: ug/L

Client: TN & Associates

Job Number: 680-30941-1 Sdg Number: 30941

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 680-88095

Method: 200.7 Rev 4.4 Preparation: 200

MS Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	680-30941-2 Water 1.0 10/15/2007 1746 10/11/2007 1656	Analysis Batch: 680-88457 Prep Batch: 680-88095	Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL
MSD Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	680-30941-2 Water 1.0 10/15/2007 1751 10/11/2007 1656	Analysis Batch: 680-88457 Prep Batch: 680-88095	Instrument ID: ICP/AES Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

	<u>%</u>	<u>Rec.</u>				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Aluminum	98	98	75 - 125	1	20	
Iron	99	99	75 - 125	0	20	
Silver	100	100	75 - 125	1	20	
Calcium	104	104	75 - 125	0	20	
Copper	101	103	75 - 125	່1	20	
Manganese	105	105	75 - 125	0	20	
Nickel	103	103	75 - 125	0	20	
Zinc	105	104	75 - 125	· 0	20	
· .	1 .					

Job Number: 680-30941-1 Sdg Number: 30941

Client: TN & Associates

Method Blank - Batch: 680-88097

 Lab Sample ID:
 MB 680-88097/7-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/18/2007
 1809

 Date Prepared:
 10/11/2007
 1711

Analysis Batch: 680-88946 Prep Batch: 680-88097 Units: ug/L

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.50	U	0.082	0.50
Barium	2.0	U	0.52	2.0
Beryllium	0.40	U	0.12	0.40
Cadmium	0.10	U	0.058	0.10
Chromium	0.96	J	0.24	1.0
Copper .	0.31	J	0.26	1.0
Lead	0.082	J	0.054	0.30
Mercury	0.080	J	0.044	0.10
Thallium	0.20	U	0.096	0.20

Method Blank - Batch: 680-88097

Method: 200.8 Preparation: 200

Lab Sample ID:	MB 680-88097/7-A	Analysis Batch: 680-88946	Instrument ID: ICP MS
Client Matrix:	Water	Prep Batch: 680-88097	Lab File ID: N/A
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 50 mL
Date Analyzed:	10/22/2007 1335		Final Weight/Volume: 50 mL
Date Prepared:	10/11/2007 1711		

Analyte	Result	Qual	MDL	RL	
Arsenic	1.0	U	0.32	1.0	
Selenium	0.50	U	0.16	0.50	

Job Number: 680-30941-1 Sdg Number: 30941

Client: TN & Associates

Lab Control Spike - Batch: 680-88097

 Lab Sample ID:
 LCS 680-88097/8-A

 Client Matrix:
 Water

 Dilution:
 1.0

 Date Analyzed:
 10/18/2007
 1815

 Date Prepared:
 10/11/2007
 1711

Analysis Batch: 680-88946 Prep Batch: 680-88097 Units: ug/L

Method: 200.8 Preparation: 200

Instrument ID: ICP MS Lab File ID: N/A. Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	10.0	8.82	88	85 - 115	
Barium	20.0	19.0	95	85 - 115	
Beryllium	10.0	9.24	92	85 - 115	
Cadmium	10.0	8.64	86	85 - 115	
Chromium	20.0	19.3	96	85 - 115	
Copper	20.0	17.9	90	85 - 115	
Lead	10.0	10.0	100	85 - 115	
Mercury	1.00	0.948	95	85 - 115	•
Thallium	8.00	7.72	97	85 - 115	

Lab Control Spike - Batch: 680-88097

Method: 200.8 Preparation: 200

Lab Sample ID:LCS 680-88097/8-AAnalysis Batch:680-88946Instrument ID:ICP MSClient Matrix:WaterPrep Batch:680-88097Lab File ID:N/ADilution:1.0Units:ug/LInitial Weight/Volume:50 mLDate Analyzed:10/12/20071340Final Weight/Volume:50 mLDate Prepared:10/11/200717111010

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	22	108	85 - 115	
Selenium	20.0	21	104	85 - 115	

Job Number: 680-30941-1 Sdg Number: 30941

Method Blank - Batch: 680-88118			Method: 335.4 Preparation: Distillation	signed
Lab Sample ID:MB 680-88118/1-AClient Matrix:WaterDilution:1.0Date Analyzed:10/12/2007Date Prepared:10/12/2007	Analysis Batch: 680-882 Prep Batch: 680-88118 Units: mg/L	62	Instrument ID: No Equipment Ass Lab File ID: N/A Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL	signed
Analyte	Result	Qual	MDL RL	
Cyanide, Total	0.010	U	0.0050 0.010	
Lab Control Spike/ Lab Control Spike Duplicate Recov	very Report - Batch: 680-88	118	Method: 335.4 Preparation: Distillation	
LCS Lab Sample ID: LCS 680-88118/2-A Client Matrix: Water Dilution: 1.0 Date Analyzed: 10/12/2007 1348 Date Prepared: 10/12/2007 0801	Analysis Batch: 680-86 Prep Batch: 680-88116 Units: mg/L	3262 3 1	nstrument ID: No Equipment As .ab File ID: N/A nitial Weight/Volume: 50 mL Final Weight/Volume: 50 mL	tillation Equipment Assigned ne: 50 mL re: 50 mL RL 0.010 stillation Equipment Assigned e: 50 mL e: 50 mL e: 50 mL e: 50 mL e: 50 mL
LCSD Lab Sample ID: LCSD 680-88118/	3-A Analysis Batch: 680-8 Prep Batch: 680-8811	3262 i B	nstrument ID: No Equipment A _ab File ID: N/A	ssigned.
Client Matrix:WaterDilution:1.0Date Analyzed:10/12/2007Date Prepared:10/12/20070801	Units: mg/L		nitial Weight/Volume: 50 mL Final Weight/Volume: 50 mL	
Client Matrix:WaterDilution:1.0Date Analyzed:10/12/2007 1349Date Prepared:10/12/2007 0801Analyte	Units: mg/L <u>% Rec.</u> LCS LCSD Lii	nit RPD	nitial Weight/Volume: 50 mL Final Weight/Volume: 50 mL RPD Limit LCS Qual LC	CSD Qua

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: TN & Associates

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Login Sample Receipt Check List

Client: TN & Associates

Job Number: 680-30941-1 SDG Number: 30941

List Source: TestAmerica Savannah Login Number: 30941 Creator: Hall, Karl I List Number: 1 T / F/ NA Comment Question N/A Radioactivity either was not measured or, if measured, is at or below background The cooler's custody seal, if present, is intact. True True The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True Cooler Temperature is acceptable. True True Cooler Temperature is recorded. True COC is present. COC is filled out in ink and legible. True True COC is filled out with all pertinent information. There are no discrepancies between the sample IDs on the containers and True the COC. True Samples are received within Holding Time. True Sample containers have legible labels. RP-MW-02: received 1 liter amber each broken Containers are not broken or leaking. False for 508 & 515 analysis. True Sample collection date/times are provided. True Appropriate sample containers are used. Sample bottles are completely filled. True True There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in True diameter. If necessary, staff have been informed of any short hold time or quick TAT True

N/A

N/A

TestAmerica Savannah

needs

Multiphasic samples are not present.

Samples do not require splitting or compositing.

APPENDIX D

Log Book Notes
CONTENTS Atten the Raine ALL-WEATHER WRITING PAPER 5 6 VoA vials, 2-12 polys, 10/8 12-12 Ambers collected ALL AVEATHER for RP-TW-08 + MS/MSD ENVIRONMENTAL FIELD BOOK 6 RP-TW-06 semples @ 1613 (3V0As, 2-12 polys, 6-12 Ambers) Adam Davis (TNA S.b (Aerostar) Name . TNA Marietta GA Address 678 355 5550 Shone. Clarks dale, Coahama County, MS TOD NO TNA-05-003-0004 Book 1 of 2 (Adam Davis entries) This book is printed on "Rile in the Pain" All-Weather Writing Paper - A mency paper created to prodivestor and orbands the written image, it is widely asso increased as word for recording onlines field gata in all kinds of weather. Reference Page index For best results, use a bundl of an ali-weather pon-Error codes, Horardons classifications, Containte types 147 143 Sampling quidelines (Liquids) 140 Sampling guidelines (Solids) Approximate Volume of Water in Calang or Held remaind Water Monitoring Weit 150 generational and the course PVC Pipe casing tables 151 Cauge Paties Cover Options 152 Soil Classification Schoelte Geven Epitadoja Cover Soit Classification section as 153 Conversions (Length, Weight, Volume, Temp, etc.). 100 Dec 18 43 them Niv. (1964) Conversions (Concentrations, Malomeditory or Julia Velocit, Academica) 155 156 Maximum Concentration or Contaminants for the Toxicity Characteristic VESSUE: DATE INCLOSE

CONTENTS DATE PAGE

Location Red Panther Clarkshole Bate 10/5/07 Project / Client TOD TNA - 05-003-0004 WEATHER FORECAST: HIGH 90 LOW TO LIGHTSE 3070 CIMMEE RAM WIND D-1 WIND D-10 0740 - Depart Hotel 0800 - Arrive on site. Site Personnel-Heley Datten - TNA, Michael Thanpson TNA Adam Davo's (TNA Sub Acrostar Matthen Arceneaux (Awostar) Drillers Tim Myers & Lodney Brass-Reld (Miller Drilling Co. Lawren burg, TN J. 0810 - Site Safety Brief with all above Major topics discussed: - Pitch Points - Overhead utilities Wenther (Itat / Itydrahion / - landerground Utilities - Chemica 's of Concorn All sign off on AMSP 0850 - Drillers set up decon pad an SE corner or yard near Shipping Repartment water connection. 0900 - Atmos Energy (Utility Locator) arrives on site to mark upilities in vicinity of temp. well locations. 9705 - Drillers complete decon of equipment.

Location Red Panther Date 10/8/07 Location feel Panther Date 10/8/07 Project Sent TNA 05-003-0004 Project / Client 7NA 05-003 - 9004 1200- Prep. for Well Parsity of RP-TW-0940 - Driller set up on RB-TW-08. 0945 - Starts pushing N/ Geoprobe. RP-TW-08 PURGE DATA: 0950 - Metals blank collected (2-12 Initial Depth to Water (DTW): plastics). Start Time: 12.22 Purge Rate: 0.06 1007 - Equipment check & calibration. Total Depth of Well 25,12 gpm 1057 - Begin Levelopment of RP-TW-08 Leasth of Water Column: 25.12-12.57= 253 with peristaltic pump & Tellon tabing-Well Volume = 12,53 × 0.041 = 0.51 Water level Q 12.59 below top 7 Well Volumes = 1,54. of casing. Puzze late of aprox. TIME VOL TEMPE COND DO PH ORP THEB I gel/min (gpm). Changed purge GAL °C MS/cm M/L SU MY NTU rate to 0.4 - 0.5 spm and water 1230 0.48 25.69 0.448 0.77 6.16 -31.4 204 level in well holds @ 13.00 'BTOC 1234 0.72 25.69 0.467 0.52 6.18 -45.3 326 Hajust purge develop rate to max 1258 0.96 26.49 0.471 0,39 6.21 49,3 313 rate on pump of aprex. Xgpm. 1120 - Check Tarbidity RP-Tw-08. 1242 - Pump circuit breaker tripped. 1246 - Resof breaker & pung head to 300 RPM Turbidity = >1000 ATA. Continne 1250 1.20 26.26 0.467 1.29 428 -45.4372 1254 1.44 25.43 0.454 1.79 6.22 -352248 development. 1122- Change power source of Jump 1258 1,68 25.32 0467 0.61 615 -38.9226 to battery, Parge develop rate = 0.4 1300 - Stop Purse & Colloct Samples for RP-TW-08 + MS/MSD. 1150 - Check Turbidity (NTM) on well. Samples IDS as follows: (see page A Galants) NAR = Turbidity = 204 NTU. H55-50 Sel. ____ 1410 tegindevelopment of PP-TW - de with peri static 1157 - Discontinue Well development RIZTW-08. puny steplan filling. When level TVC M. Le and Istal 1.1x/17 Sec.

Location Ach Panther Date 10/8/07 Project / Client TNA - 05 - 003 - 000 4

Location Red Panther Date 13/8/37 Project / Client TNA - 05-003-0004

delphis 42.2 Total deptition top of cosing -DURCO RATE of OPTROVIMATE 425m1/min. 1437 Turbid, ty at 234 + WATER OE6this 23.28 1456 rurbiding @ 126, purged Sachs total 1508 rubing @ 150 pund Geals vedel 1520 rurbining C/CK, pund Geals vedel 24.95 lath to water ~ (42.2 - 24.95) × 0.71 - 0.61 33 that temp cond dy pt/ orp turbivity time gals of instan Must mu ntu 3:38 3 21,750.843 2.36 6.51-48.5 255 3:43 0.621.69 0.842 2.24 6.4 2 1 2.1 248 3 98 0.9 21.53 0.840 2.08 6.45 -46.6)21 3:53 1.2 2149 0.837 1.91 6.44 -46. 3 69.1 3:58 1.5 21.66 0.843 2.54 6.46 - 217.5 357 41:03 1.8 21.84 0.841 2.18 6.50-510 7 4 4.08 2.1 21.12 0.840 2 5 6.1 = 51.1248 4.13 Samples Collected - RP-TW-06 3 VOA Vials, 6-12 Ambers (SVOCY BNA/Pest), & 2-16 Plashes (Metalst (yunide) Note above times from 3:38 Entry were incorrectly written fire, not written in military time). 3=38 entry should have been 1538, 3:43 should have been 1543, etc. Sone 10/8/07

RP-Th-06 Sample time listed on chash as 1613. Note * - Entries in logbook from 1410 to 1613 were made by Matt Arcencaux & Michael Thompson. Entries made hon 1613 on made by Adam Daris . 1630 - Collected Rinsate off of decontaminated Geoprobe rod. (3 VOA vials, 2-1 L plastics, 6-1C Ambers) ____ 1700 - Collected Metals Blank (1-L Poly). 1730 - Collected Atotals Blank -RB-TB-01. -Late Note: 1630 - Deport Site. 0745 acrived at site 0800 · moved + 1RP-TW-05 08207 - Degan development of RP-TW-05 @ punge rate of <u>Oob</u> xmax Dump - purging began @ 0900; tools longer to set op then expensed

Luciona Red Panther Date 10/9/07 Location Red Parther Date 10/9/07 Rujara (Causa TNA -05-003-0004 Project / Client **IVA -05-003-0004** 0900 1240 Thegan development of MW 02 gauging woll depith to disatary 27. 2 fet 1240 · initial torbidity-164, Ogols purper total Weight HY. Steet, 1255 - turbiding at 119 nr. 3.5gallus ponged permanen 2 inch mentioning will become NO - turbidity at 106 nry, 4 Sgals pinped at NNW concernet of Marchange building 1320 Hurb dity at 80.7 my 5 Ogal's proped south of office and looks 14140 - 4 cv bidin y ax 207 nty 55 gels pupped step development @ 14141, gellins rote langes MW-05 well ilepselve water the supp. 14192 - set prier purge of B. P. Mw - 02 for perision his pump just biggin R.P. MW-02 purge dala Cevelopment with bladder pupp. initial depth to writer 29.7 Tres below topolosing to teldept hol well 4718 feet length of the Oct. 1821 feet 1100 moved to primanent monitoring well to 3p. 19 we we s (gale) = 3 . (1 6 3 x 18 17 = 9 0 gals be named later, proceed monitor well -03 start time 1445 of porging purge rate of 591mls in 1.5mms; 1.5mms = 11ms/go) Septh to water was 47. Steel, water was 24. Sfeet beby top of casing, from top of casing, to time to pure 9 gab is 99 mms, 5 ground is 3.5 four. This well is a direch Ame vol temp cont du pH orp tors HHMM (gals) · C m / mg/L Ju mn ntu 1350 1450 05 21.70 0.813 045 6.80 -13.3 200 PUL casiver and was pland have prove to amul as site the 2" factor is 0.163, began development et 1200; un got studiduring 1400 +500 15 22,04 0788 034 677 -112 139 fransform 1'40 MUV 02 1410 1510 2.5 2) 07 0.790 0.98 6.79 -35,8 2.40 1200 - began development @ 075 full 14204520 35 21.50 0768 0.346.78 - 39 2236 1440 1540 6.0 2235 0.741 0.50 6.81 - 135 .73 1200 turbidity of the 1450 550 m 7.5 22.41 c. 791 0.28 6.79 -44, 533 1500 460 m a 22.32 6.792 1.06 682 -34.6 301 stopper purge @ 460 m 1501 Dioke for lively vertarting other land

LOUGHAN Red Panther Date 10/40/07 Location Aed Pan ther Project / Chent TrA 05-003 -0004 Project / Client _____A 05-003 -0004 mourel 4 RP - TW - 05@ 1615 ---began sompling MW-020 1001 mo samples callocut for wars (3.40mls, metals cyanile, initial depth towater 34 72 8. 6tocms officient omperage on battery, waited to 2'ldog pleys, BNA pests + serivols, 6 - 12 cm ber more van avound to attempt sampling. glass bottles) stopped sampting at 1530 started sampling @ 1638 atc'Note* Prescivative Samples were made by gentining Car - I amber lost lost ist for CM-post Michael Thompson at 14150 --were able to Sill or obisin () It amber gess + (2) ILpoly stopped sampling at 1708 bogan sempling (NW-02 deps at 153) encot sample Consi Sul of (3 40mls for vois) (metalscyanite, 2° IL pelus, BNA pests & seminuls 6° IL ambergless bottles] steppi & collecting at 1610 Note */ Trip black for 10/9/07 was done by Micheal Thompson @ 1450 Dorex RP TW-05 was parged dry at 1000, let sit and fill for an har + RP-TW-05 was propod dry at 1130, let Sit and Sill for an har Mole & lample times on previous page for purge times and crossation of purge times were each ahead by 0100, this 1st purge reading should read 1350, stop purge time shuld read 1501 and starting sampling time should read 1501. Conrect time begins at "stopped scoupling at 1530" sampling time for MW 02 is 150'l for sample and Cuplicates.

Red Panther and 10/10/07 March 100 TNA -05-003-0004 Weather clear at mid Ro's. izector clans Low 763 High mid 803 OTSS TNZA & Miller ONSITE Acrostar at Motel pucking coulers 0750 Drollers setting up to Instull 45' Well @ Tw-07 1935 allef 310A's -5755 Collect 3 VOR'S Brom Turner S, FinishED Kelly Allen, Michael Thompsonbesin 0940 check the water for previous installed At TW-07; 25.55 WATER Lebth At 45 Fout WEIL 1006 Begin pursing, initial turbidity reading was 19/17/1 1010-stopped purging and added before tubing -1050 TWO difi & acting at 1000 M und grader -1106 stopped Development of 740-07 and peep to2 persona Initial depth to wATER is as 35 them - bp cotsing -Total dopt of well is 45ft, WATOR length is 13.45 ---3 purge vols (aprils) = 3 (0.041×13.45)= 1.45 start time of 1115 purging -DUVGR rate of 591 mls in 4.5 Minutes, 4505=24 Tive & plage 165 GAllons is: 34 min s Rom BALLERY to Vehicle Time Uslime Temp (and Do PH ORD TLABS ----1143.5 26.59 186 7.517.55 -1002 363 ---Bausia Naraz At 1144AM Kegor E DWGE NERS at 12 non -1200, 5 26.79 1.60 6.49 7.09 -85.7 203MU -

Location Kod Paintha 10/10/87 Project Given TWA - 05 - 003 - 0004 1201.5 2011 84.1 7.57 7.21 -84.4 85.1714 1230 165 2537 644 5.28 695 -664 105 TALOT * 500 purgins Af 1230 and broin scompling TALOT 1836 start culled of 2 Wy's -1245 complete puly calletin, bigin AmBel calletin-1315 competed collection of 4 Amuer Bottles per that 1340 PRED duelinment of TW-DGCH 35FUT LEFIC 10.31 WARR and total depth of 35Ft 18.69 FT OF water when yielding I well where of , 77 guillins, 3 util whomas is 2.30 sullins -1352 - Start development of pp-Tu- 09 (Adam Davis) - -Pump rate = 0.07 gpm. Turbidity (initial) = >1000 NTAturbidity a 1415 = 216 Noto . 1420 uthimpsin Bourner lunch offer leaving bothe plup of RP -TW-09 at 1340; change power source 1440 Jur bidty chick of 92.4mu ----1451 Turbidity reading is 59 mu ----1455 Jubdity roding is 201, 1500 Huge begin At 1500 hrs, cullocted 4.5 gallions of developed inater in aprox, 1 Hrc. Avarage pump rate for development = 0,11 9m

wanter Red KOnther LOCANDO PSEU Partho 2 and 10/11/07 TWA-\$09 Protect / Olient JND-05-003-0001 Withher at About 850 with clair slies Wenthe Clear Ivin 635 High 70% TIPDE US/GAMA TEMP COND DO P.H. ORP TUBB
 TUBB TUBB TO TUBB 0730 TAJA & Miller ON- 51tes 0750 Sumple Tur-09-Hollsweep c askin make me my 7558 .38 25.12 ,610 1.21 6.97 -92/ 216 0540 Start develop TW-01 1515 ,74 24,86 ,007 1.39 6.91 -87.7 192 TO 35' OTur- 22.50 L 1525 1.14 24.46 ,603 1.47 6.89 -78.2 65.8 1535 1.52 ne well purged dry @ 35 FT. 1545 1.90 re Will allow well to recharge 0855 Dried well to 30' recharged to 27 in 30 min. Developed . 75 gal, 0930 Aurostat unside. A lem Lept Do 5.16 175 Jos overnight & Sample on 10/11 1st-String To bail Tu-El Organ unge rate at 355mt in 355 min = 555 (132) =8 0939 miller developed & sel prom Began bailing Two Band 1000 bailing it dry-it bailed ory at 1018 was developedry COMPLER TOP DAY OF OG And DOG DOCKING AT 1000 WS purge rate of 0.04 fisted above 15 incorrectly reported. Purge rate Mouring TO TW -02 at 1015 well was dareloped by divillers, from 870 90 must have lexceed rate of development of 0.07 ypm due to total development volume was 8 gallons fact that well purged doing after total well depth is 35 freet -35 minutes. Actual purge volume initial depth to water 9374 should have been > 2,45 callons. length of column is 35 - 93=257 eet 1640 - K, Patter & M. Mompson 1 well volume is 1.02 gallons totar priging amontis 3.00 gallons depart site for Fed Ex (length of column (11) x OOH x 3) --beginning porgo of Tw-02 ut 1030purge rate of 0.500L in linin 154 - 1001 - 0.13g. 1/min, adjusted 1104 40 (min - 3.785L 0.13g. 1/min, adjusted 1104 40

Location Red Poursher Date 10/11/07 Location Red FLADARE Duie 10/11/07 Project / Client TNA :05 003 -0004 Project / Client Tup - US-202- 000-1 ctime vol temp and do pH oub tur 1418 plato 14 3 purge 2 Dolla MMM gals C WS/cm mg/L drums, nti 1415 LOUR Satus OPP-5, 20 0.2 20.54 2076 338 7.01 -818 724) < 1040 10485 08 20.60 2084 1.20 6.96 -91.8 538 1 10500 1.5 2083 2.084 068 691 -92.1 373 20 2093 2090 096 695 -90 3/267 1055 20 84 2.094 0.54 6.95 -88.5 196 20 87 2014 0.69 6.88 -86.17 113 25 1100 stepped puje at 1106. beg an sampling at 1107 samples consister of (2)12 poly's (examples) (3) 40mL Voa's Cuclatiles), cal (6) 11 ambars (pesendar PNA + SVAD support sampling and (131; broke Sor lunch at 1132 returned to site @ 1228 RP TW-01; depth; to wester 24.00 herst -1240 Roturn from Kinch and begin sampling at TW-01, Wher depth is 24.01, well was intelly developed dry. sampling begin with no porameters, 3 von 1 poly 1.5 Amber 1315 sampled Drums. 1400 Culled mapary he studied To leave keys 12 skill next

Project / Citient TNA 05-003-0004 Location Led Venther Project / Client 114-05-003-0004 Bee - Meet of Sichard Antia (Teus 1400 - Collect TV:p Blunk (XP-TB-04) of ligen Well openting eyen 3-40ml VOAS. municipal well located of Mary 500 - PACK COOLERS FOR OFFSIJE 61 Not of Clarksolarle just Na WERCS TO STR COC SN 73779 FEDEX TRACK # \$630 3433 7993_ GPS Location : 34 + 21576°N GPS 90,54241°W-1310- photograph site_ TW-01->N 340 11' 11.7" 1315 - Collect Samples from well 1370 - photograph sample location, N 90° 33' 39.6" -02 > N 340 11' 18.4" W 900 33' 4/6.6 water hover & site entrance -1350- Complete sample collection -- 03 - N 34+ 11' 165" W 90° 33' 41.0' gate & furns off pump. +04 -> N 340 11 17.1" I Samples culleted designated W 900 33' 431 as RP-MW-01. 16buttles -05-7 N 340 111 14 1" for antilysis (same as RP-mu-W 90° 33' 45.7" 06 +> N 34911' 12.3" 031. W 90° 33' 45.2" -07 -7 N 34º 11' 14.2" N 900 33 430" 08 7 N 34º 11' 10. 5" 10/11/01 W 909 33. 43.4" -09 - N34º 11/13:2", W 90 33' 40

Alto in the hain ALL-WEATHER WRITING PAPER ALL WEATHER ENVIRONMENTAL FIELD BOOK Name Kelly Putter TNAL Address Phone Project Red Pusher themical computer Clarkidule, Conhomen County, MS TOD NO. TNA-05-003-0004 BUNK 2012

This book is printed on "Rite in the Rain" Ail-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording oritical field data in all kinds of weather. Yor bost rought, but is prevenue whereather per-

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Location Red Purther Clurisdule Bate 10/0/07 Project / Client TOP TUA-US-003-0004 weath in foreigst High 90 Low TD 0940 set up on TW-08 hand more To S' 5-10 LT gring Tren UFG Sunly Site 10-15 SAA 15-18 SAA 18-20 Dart sing UFG sundy 5:10 20-22 SAS Wuter 22-25 Darok 5ry VFG sundy Silly Chy 25-30 SAB 10,70 506 1" Well a 251 1130 Sebrup on The 06 Hund auger to 5-1200 Tried to set well @ 251 holp Cullupsed. Rushed Rod Second time to clear hole. 1300 pushed to 35' worder @ bubber. pushed to 401 to set well. OTW 17.6 Ann TOC TD 42.2 1440, Sebup on Th-05 Hard auger to 5 451 Leave site (Adam & Allyson-go to city of

Excelose Red public Date Project Cliffent (larksdale Uhlity Dept. 1502 Spoke W/ Rusty -> showing us clarusdale well 08 · Arrive at Clansdale Well #14 > TN+A RP-MW OZ (desper) -> pré-élonnation - turn onwell 1518 Start sampling & collecting duplicate 1530 Raining - continue sampling 1535 Sit in thick 1547 Continue sampling - 5 +11 raining 1630 In hotel - ready for - FF-MW-OZ time 1520 RP-MN-05 Duplicate of -oz Later worke 1520 set Turos

Location Red Purther Churces the Vale 10/9/07 Project / Client 100-05-003-0004 Partly cloudy Hibb 90 Low 10 0515 photograph & GPS 10/8/07 locutions photo #1 Tw 08 N 34° 11' 10,5" W 090° 33' 43.4" PHOTO #5 TW-05 N34' 11' 17 14.1" - wo 90 33' 45.7" 0825 Set 40 ON TW-09 hand unser to 5' priller pushed to 60 No Waber. Spoke with Alyson will invice to proposed Tw-01 to tra again. Photo # 4 Tw-03 N 34° 11' 13.2" w 090° 33' 40,5" Photo # 5 Tw-01 N 34" 11.7" W 090° 33' 39.6" Set 1100 set up on Turos hard anser to 5' or other pushed tu 40 -1215 Def-site jur huch 300 Besin pushing to 45 1410 pushed to 60 vo writer Drillers Decen Rods PHOto#6 Decar Pad -

Location Red Purthe Date 10/9/07 Location Red P. Noli 20 Mais 10/10/107 Project, Chent Trub-05-003-0004 Project / Client TUR -05-003-00174 1450 Set up as TWOT hund 0 520 Driver Stb 45 well for Auger Do 5' DVShed to 60' TW-07 ---0900 SEBUCON TW-03 hand aver 1830 feet Rods w groved to see if there is wader in to 5' INStall Well @ 45' PHODU#5 TW-05 N 340 11" 16.5" The montes Photo # 7 Twof N'34" 11' 14,2" 1000 Remob to tw-09 to 1154.11 N 090° 33' 73 0" 35" Well. 1040 M. B. 41 OIN TW 09 20.55 1059 - Entries bagun by Adam Davis. Set up for Development of RP-TW-03. Initial Depth to water - 20,00 '865 - Total Depth - 45,00'865. 1100 - Start Development. 1104 - 1st Water pulled from well Rp-Th-033. 106 - 550 ml OF Water pulled for well = 0, 132 gals in 2 miss = 0, 132/2 min s, = 0.06 gpm 109- DTW = 24,90'BGS with 2 0.54 galling removed. 115 - Increase purse rate to mak pump rate of aprox DitcPm-

Location Red Pienther Date 10/12/07 Location feel Pan thor Day 10/10/07 Project / Client 12/14 05 - 203 - 000 -From TUP 05-003-0004 RY-TW-03 PURGE (cont.) -1118 - Dump will not lift water TIME VOL TEMP COND DO PH DRP TURB from 27' BES. Total Volume (DTW) "C ms/cm y's su mu NTM of 0,17 gallons removed. 12/8 212 31,85 1.746 0.30/2.50/165.1/853 (26.70) 120 Incremse RATE TO 0.066PM Stopper Pump, allow water to recharge in hell prior to purge for sumpling, 1228 2.8 29,64 0,020 0906-85-147 200 1232 3.04 30,46 1.76 0,82 6.79-147 600 1136 - DTN = 22,00 1865, 1137 - Start Purge RP-TN-03 1240 3.52 29,12 1,75 0,73 6.76 -153 620 X (26,53) Initial DTW: 20,00' ----Total DTN: 45,00' ____ Length WC = 25,00' ____ 1/240 - STOP PURGE @ 3,52 Gals Well Volume = 1.04 gals ----& COLLECT SAMPLES & RP-TH-03 3 Well Volumes : 3, 12 gals -Initial Turbidity : > 1000 NTH Set Tor bronnes (30 - 40 nie vints) RBT SETTIST POST BNA 16-22 Anders) TIME VOL TEMP DE PHE PH DRP TURB GAL C MS/CM MS/L SU MU NT support f (1-12 port more), & cymm Soll- 21 Raig Noold) 32,34 1,806 0,75 6,83 -156 >1000 1140 0.3 1770- Stepped sampling at 1330, samples 32,24 1,794 0,696,74-153 >1000 colloctor were (2) 11 amber glass (Post.), 11440,5 32.07 1,783 0,60 6,69 - 150 7,000 (1) IL poly mellals), (3) 40mL VO.As? 1147011 1402 - start dere poment of RFD-The 32,00 1,770 0,62 6,13 - 152 2000 1151 8.9 04 - Pump rate of 0,1 GPM ---37.93 1.777 0.50 6.75 -15/ 21000 1,55 1,1 Initial Tarbidity => 1000 NTU-31,92 1.775 0,476,75-1557100 11591.3 10/10/07 22 PUROERATE 8,050PM OUR Pare

Location Redpanther Date 10/10/07 wooding fiel Pan ther Date 10/10/07 Project / Client TNA 05-003-000-1 Project / Client TNIA 05 -003 -0004 \$ 1500-collect mip blank RP-TB-03 1413 - P.P-TW-04 Development (Cart.) 1505 begin porge of TW-04 Pump dogged up sediment with total depite of well 35.00 feel puling @ 30' B65. initial deputies water was 16.31 Scot -1415 - Clean pump & restart length of water column was 18.69 fr development, I well veloure (s C. 74 genous, total pay e-1418 - Punp clags again -Lulume is 2.12 galling _____ Initial turbility >Low NYU time not temp can 2 do pth orp torb HHmm gals = c months which su mu notu 1430 - Clean but thising freptos and start development agein -Depth to water 16,5 325 - -Pump rate Oil GPM. They bidity = >1000 1505 6.5 22.05 3628 0.55 637 -211.0 >1000 1515 10 21.78 0.596 017 6.79 -2001 > 1000 Lube Nobe KSP 1520 1,5 21.67 0,594 0.08 6,81 - 199 >1000 5' Set well @ 35' 1525 210 21.760583 006 681 -199.3 > 1000 1530 2,52172 0.575 0.05 682 -198.0 7142 Rhoto # 9 ~ 340 11' 17.1" W 090° 33' 49.1" 1531 - stopped porge * 1532 bagion sampling of RP-Two-04 1300 Set up ou Tur -OR hard augus to 5 Samples collected for fall suite Set well @ 35' (3-40ml VOAS, 6-1L Ambors. photo #10 N 34" 11 18.4" - w 090° 33° 46.6" Pest/PCBS/BNA/SEmVS, 1-6 Pacy Metals, 91- 6 Poly Cyandle 340 Remob to TW-01 Set well @ 35 mw-2 Photo #11 N 340 111 13.512 1630 - Complete sample collection @ W 090° 33' 42.8" Rp-Tu-04. Transfer purge water to Phit #12 Building with THE Photofis 55WIND BUCKERS OF THE drums on site near decon pud, - 50

Project / Client TNA - 05-003 -0004 1640 - K. Patten & M. Mompson depart site has Fed Fx W/ 10/1/07 Sumples 3 Costers (CLP) & 1 Conter (ST2). 1045 - Spoke of Lichard Antis (Lyon Municipal Well's contact) flarranged to sample Lyon well on 10/11/317, Contact # for Mutici is 662-645-0646 -1650 - Called in Sample Amesto A. harrsypen. 1700 - Lock site & deguit to potel to prep 10/10/07 Samples for snipment to tab. _ 1715 Resice all samples from 10/0/07, CC 10/10/07

Location Led Panther 0/11/07 WEATTHER = CUERR 40°F; 5-10 NWIND 1030 - Meet Pusty w/ Clork sola le Public Unificios at Clarksdale bell # 17_ Dur designation is RP-MW-03. well located on NE Side of Clark'sdate near 4/2 Tracks & Mill Creek aprox. 1.3 miles NNE of led Par ther Site - 6125: 34, 209/2°N 90.54951°W-1040 - Collect photographs of Well location of sample location ----1050 - Collect samples tom Spigot at wellhead upstream of chlorination - Samples collected for Methods: 508 (2), 524, 2 (3), 200,8 (1), 808/ A-8082 (2), 335.4 (1), 515,1 (2), 525,2 (2), 504.1 (3). Take photographs of sample Collection of Turn oft pump. Se 1100 - Place samples on ice in cooler, dock gate, d'depart site --

APPENDIX E

Photographic Log



Official Photograph No. 1 Site Name: Red Panther Chemical Company Date: October 8-11, 2007 Clarksdale, Coahoma County, Mississippi Location: TDD No: TNA-05-003-0004 Adam Davis, START **Photographer:** Decontamination pad Subject:



Site Name: Location: **Photographer:** Subject:

Official Photograph No. 2

Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Adam Davis, START Investigation-derived waste drums

Date: TDD No:



Site Name: Location: **Photographer:** Subject:

Official Photograph No. 3 Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Adam Davis, START

Date: October 8-11, 2007 TDD No: TNA-05-003-0004



Official Photograph No. 4

Site Name: Location: **Photographer:** Subject:

Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Adam Davis, START Lyon Well RP-MW-01 sample location

Date: TDD No:



Official Photograph No. 5Site Name:Red Panther Chemical CompanyDate:October 8-11, 2007Location:Clarksdale, Coahoma County, MississippiTDD No:TNA-05-003-0004Photographer:Adam Davis, STARTView 2 of Lyon Well RP-MW-01 sample location



Site Name: Location: Photographer: Subject:

Official Photograph No. 6 Red Panther Chemical Company Date: Clarksdale, Coahoma County, Mississippi TDD No: r: Adam Davis, START Clarksdale Utilities Well 17 RP-MW-03 sample location



Official Photograph No. 7 Red Panther Chemical Company Site Name: Date: October 8-11, 2007 Clarksdale, Coahoma County, Mississippi TDD No: TNA-05-003-0004 Location: Adam Davis, START **Photographer:** View 2 of the Clarksdale Utilities Well 17 RP-MW-03 sample location Subject:



Site Name: Location: Subject:

Official Photograph No. 8 October 8-11, 2007 Red Panther Chemical Company Date: Clarksdale, Coahoma County, Mississippi TDD No: TNA-05-003-0004 Photographer: Adam Davis, START View 3 of the Clarksdale Utilities Well 17 RP-MW-03 sample location



 Official Photograph No. 9

 Site Name:
 Red Panther Chemical Company
 Date:
 October 8-11, 2007

 Location:
 Clarksdale, Coahoma County, Mississippi
 TDD No:
 TNA-05-003-0004

 Photographer:
 Adam Davis, START
 View 4 of the Clarksdale Utilities Well 17 RP-MW-03 sample location



Official Photograph No. 10

Site Name: Location: Photographer: Subject: Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Kelly Patten, START Temporary Well TW-01

Date: October 8-11, 2007 TDD No: TNA-05-003-0004



Official Photograph No. 11Site Name:Red Panther Chemical CompanyDate:October 8-11, 2007Location:Clarksdale, Coahoma County, MississippiTDD No:TNA-05-003-0004Photographer:Kelly Patten, STARTTemporary Well TW-02Company



Site Name: Location: Photographer: Subject: Official Photograph No. 12 Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Kelly Patten, START Temporary Well TW-03

Date: October 8-11, 2007 TDD No: TNA-05-003-0004



Official Photograph No. 13 Site Name: Red Panther Chemical Company Date: October 8-11, 2007 Clarksdale, Coahoma County, Mississippi Location: TDD No: TNA-05-003-0004 Kelly Patten, START **Photographer:** Subject: Temporary Well TW-04



Site Name: Location: **Photographer:** Subject:

Official Photograph No. 14 Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Kelly Patten, START Temporary Well TW-05

Date: TDD No:



Site Name: Location: **Photographer:** Subject:

Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Kelly Patten, START Temporary Well TW-06

Date: October 8-11, 2007 TDD No: TNA-05-003-0004



Site Name: Location: **Photographer:** Subject:

Official Photograph No. 16 Red Panther Chemical Company Date: Clarksdale, Coahoma County, Mississippi TDD No: Kelly Patten, START Temporary Well TW-07



Site Name: Location: Photographer: Subject:

Red Panther Chemical Company Clarksdale, Coahoma County, Mississippi Kelly Patten, START Temporary Well TW-08

Date: October 8-11, 2007 TDD No: TNA-05-003-0004



Site Name: Location: Photographer: Subject: Official Photograph No. 18 Red Panther Chemical Company I Clarksdale, Coahoma County, Mississippi Kelly Patten, START

Temporary Well TW-09

Date: TDD No: