

REDACTED



Transmitted Electronically

November 11, 2010

Mr. Ralph Howard
Remedial Project Manager
U.S. Environmental Protection Agency
Emergency Response and Removal Branch
61 Forsyth Street, SW
11th Floor
Atlanta, GA 30303

**Subject: Air Deposition Study Report, Revision 1
Red Panther Chemical Company
EPA Contract No. EP-W-05-053
Technical Direction Document (TDD) No. TNA-05-003-0004**

Dear Mr. Howard:

Oneida Total Integrated Enterprises (OTIE), Superfund Technical Assessment and Response Team (START) is submitting one copy of the Air Deposition Study Report, Revision 1 for the Red Panther Chemical Company site located in Clarksdale, Coahoma County, Mississippi.

Please contact me at 678-355-5550 if you any questions or comments regarding the report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Greg Kowalski', with a stylized flourish at the end.

Greg Kowalski
START Program Manager

Enclosure

cc: Ms. Jennifer Wendel, EPA NPL Coordinator
Ms. Katrina Jones, EPA Project Officer
Mr. Darryl Walker, EPA Project Officer
START File

AIR DEPOSITION STUDY REPORT

RED PANTHER CHEMICAL CLARKSDALE, COAHOMA COUNTY, MISSISSIPPI

Revision 1

Prepared for:

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

Prepared by:

**Oneida Total Integrated Enterprises
Superfund Technical Assessment and Response Team
1220 Kennestone Circle, Suite 106
Marietta, Georgia 30066**

Contract No.	:	EP-W-05-053
TDD Number	:	TNA-05-003-0004
Date Submitted	:	November 11, 2010
EPA OSC	:	Ralph Howard
Telephone No.	:	404-562-8923
Prepared by	:	Stacey DeLaReintrie
Telephone No.	:	678-255-7764

CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SITE BACKGROUND.....	3
2.1 SITE DESCRIPTION	3
2.2 ENVIRONMENTAL SETTING	4
2.3 SITE OPERATIONS	4
2.4 REGULATORY HISTORY	5
2.5 PREVIOUS INVESTIGATIONS.....	6
2.6 ON-SITE REMOVAL ACTIVITIES	7
2.7 POST-REMOVAL INVESTIGATIONS.....	8
2.8 SOURCE AREAS.....	9
3.0 AIR DEPOSITION STUDY ACTIVITIES.....	10
3.1 SAMPLE COLLECTION METHODOLOGY AND PROCEDURES	11
3.2 SAMPLE LOCATION DOCUMENTATION	12
3.3 ANALYTICAL SUPPORT AND METHODOLOGY.....	12
4.0 QUALITY ASSURANCE/QUALITY CONTROL	12
4.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES	13
4.2 LABORATORY ANALYSIS (DATA QUALITY AND QUALIFIERS)	13
5.0 AIR DEPOSITION RESULTS AND FINDINGS	14
5.1 PREVAILING WIND DIRECTION	14
5.2 AIR DEPOSITION RESULTS.....	14
5.2.1 Background Surface Soil Analytical Results	14
5.2.2 Surface Soil Analytical Results.....	15
5.3 AIR DEPOSITION STUDY FINDINGS	16
6.0 SUMMARY AND CONCLUSIONS.....	16
7.0 REFERENCES.....	18

APPENDICES

A FIGURES

- 1 – Topographical Map
- 2 – Aerial Map
- 3 – Sampling Locations as Collected
- 4 – Analytical Results for DDD
- 5 – Analytical Results for DDE
- 6 – Analytical Results for Toxaphene
- 7 – Analytical Results for Dieldrin

B TABLES

- 1 – Sample Location Summary
- 2 – Summary of Analytical Results for Surface Soil Samples

C PHOTOGRAPHIC LOG

D ANALYTICAL CASE NARRATIVE

E LOGBOOK NOTES

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked the Oneida Total Integrated Enterprises, (OTIE) Superfund Technical Assessment and Response Team (START) to perform an Air Deposition Study under Contract Number (No.) EP-W-05-053, Technical Direction Document (TDD) Number (No.) TNA-05-003-0004 for the Red Panther Chemical site (the site) located in Clarksdale, Coahoma County, Mississippi.

The primary objective of the study is to collect additional information related to contamination surrounding the site to determine whether the site has the potential to be placed on the National Priorities List (NPL). The NPL identifies sites that pose 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.

The purpose of this study was to evaluate the presence of site-related pesticide contamination in the surface soils surrounding the former Red Panther pesticide formulation facility. Field investigation activities included the collection of surface soil samples from locations in every direction from the site to determine if contaminant concentrations previously identified in the residential neighborhood to the west of the facility (18th Street Neighborhood) were a result of the site pesticide formulation activities, or if the presence of nearby agricultural fields and subsequent pesticide application there were potential sources.

Under this TDD, START completed the following tasks:

- developed a Health and Safety Plan (HASP) that included site-specific safety measures for conducting a field investigation designed to determine pesticide contamination around the site;
- compiled property owner information into a SCRIBE database;
- documented site conditions and field investigation activities with written logbook notes and digital photographs;
- developed a Quality Assurance Project Plan (QAPP)/Site Sampling Plan (SSP) that included site-specific sampling and analysis procedures and quality assurance measures for conducting an investigation designed to determine pesticide concentrations around the site;
- performed field investigation activities including soil sampling as outlined in the QAPP/SSP; and,
- prepared a comprehensive report detailing field investigation activities, analytical results, and modeling of contaminant concentrations around the facility.

This comprehensive report details the land uses surrounding the site; describes the field investigation activities conducted by START; and identifies/illustrates pesticide contaminant concentrations around the site. The report also evaluates possible sources of pesticide contamination.

All activities and procedures described in this document were conducted in accordance with the EPA Region 4 Science and Ecosystem Support Division (SESD) *Field Branches Quality System and Technical Procedures* (FBQSTP) (Ref. 1). The site-specific QAPP/SSP was prepared by START and approved by EPA prior to field activities (Ref. 2). The site-specific QAPP/SSP describes the data quality objectives (DQO), sampling strategy, sampling methodology, and analytical procedures used during the study. Environmental and quality assurance/quality control (QA/QC) analytical data was evaluated and summary data tables are included as Appendix B. Significant QA/QC issues regarding sample collection, handling, and analysis are identified as necessary within the report.

The following sections provide the details of this report:

- Section 2 – Describes the site background
- Section 3 – Describes the field investigation
- Section 4 – Describes the QA/QC
- Section 5 – Describes the analytical results and findings
- Section 6 – Provides a summary and conclusion

Figures and summary data tables are provided as Appendices A and B, respectively. A photographic log is provided as Appendix C, and the analytical case narrative report generated by the SESD laboratory is provided as Appendix D. A complete copy of the field logbook notes is presented as Appendix E. References are cited throughout the report to substantiate site-specific statements. A reference list is provided in Section 7.0.

2.0 SITE BACKGROUND

This section describes the site characteristics, site history, and previous investigations conducted at the site.

2.1 SITE DESCRIPTION

The Red Panther facility is located at 1201 Normandy Avenue in Clarksdale, Coahoma County, Mississippi, at 34° 11' 14.67" North latitude and 90° 33' 41.85" West longitude (see Appendix A, Figure 1). The 6.5-acre facility is bordered to the north by an open grassy field and a propane distributor (Graber propane), to the east by Normandy Avenue, and to the west by East Tallahatchie Street. Several industrial businesses are located immediately east of Normandy Avenue including an industrial fabricator (Standard Industrial), a retail tire store (Gateway Tire), and a fenced field owned by Standard Industrial. A concrete production facility (MMC Concrete) is located to the east and south. Another fenced field exists to the south of the Red Panther facility and is part of the Red Panther property. Grain elevators (Scoular) are located south of the field and MMC Concrete. Railroad tracks are located to the east of East Tallahatchie Street and run parallel to the street. A former concrete production facility (Mississippi Limestone) and the 18th Street Neighborhood lie immediately to the east across the tracks.

The 18th Street Neighborhood is bounded to the north by 13th Street, to the west by Sunflower Avenue and the Sunflower River, to the south by 19th Street, and to the east by the Mississippi Limestone property and East Tallahatchie Street. The neighborhood consists of single family dwellings on approximately 0.25 acre lots. Immediately south of the neighborhood is the Booker T Washington Elementary School and the Clarksdale Public Works facility (see Appendix A, Figure 1). According to a 1935 USGS Quadrangle map and 1938 aerial photograph, this area has been a residential neighborhood since 1935, prior to the use of organochloride pesticides in agricultural beginning in the mid 1940s (Refs. 33, 34).

The site is currently occupied by Coahoma, Inc., and operated as a storage facility for feed and farm supplies (Refs. 4; 5; 6, p. 4; 7, p. 8; 8, p.1; 9, p. 2). Former site features included three hazardous waste above-ground storage tanks (ASTs), with a total capacity of 33,000 gallons, located on the southern portion of the property, a septic tank and drainfield located on the north side of the property, and a small wastewater settling basin was located on the east central side of the property (Ref. 6, p. 4). Several structures remain on the property and are in use by Coahoma, Inc., as warehouses (Refs. 7, p. 8; 8, p. 1; 9, p. 2). See Appendix A, Figures 1 and 2 for site location illustrations.

2.2 ENVIRONMENTAL SETTING

The average annual temperature in Clarksdale is 64°F with average winter temperatures near 45°F and average summer temperatures near 81°F (Ref. 11). The lowest and highest recorded temperatures were -8°F and 109°F, respectively. The average annual rainfall for the area is 49.8 inches with the heaviest rainfalls occurring during March and April. The mean annual lake evaporation in this area is approximately 42 inches, yielding an annual net precipitation of approximately 9 inches (Ref. 6, p. 7). The 2-year, 24-hour rainfall event for the area is approximately 3.5 inches. No historic wind data could be identified for Clarksdale. Historic wind data was obtained from Memphis, TN, located 75 miles to the North Northeast. Wind direction data from 1961-1990 indicates widely varying wind direction throughout the year.

2.3 SITE OPERATIONS

The former Red Panther facility operated as a pesticide formulation plant between 1949 and 1996 producing liquid and dry herbicides, insecticides, and fungicides from raw materials (Refs. 5, p. 4; 6, p. 3; 7, p. 8; 9, p. 2). Chemicals used in the formulation process included toxaphene; aldrin; arsenic; 1,1,1-4,4'-DDT; methyl parathion; chloropyrifos; 2,4-D; malathion; carbaryl; diazinon; methoxychlor; DSMA; MSMA; chlorothalonil; and parathion (Refs. 7, p. 8; 9, p. 3; 10, p.2).

Previous owners of the facility include Coahoma Chemical Company, Riverside Chemical Company, and MFC Services (Ref. 4). The property is currently used by Coahoma, Inc. as a storage facility for seeds, cotton, and farm chemicals (Ref. 5).

Contamination on the property is believed to have originated from numerous spills during loading and unloading operations, contaminated wastewater releases, from spills and leaking underground piping in the tank farm area, as well as particulate releases to surrounding areas (Ref. 10, p. 2). Of note, in November 1985, a fire erupted at one of the Red Panther warehouses (Refs. 6, p. 5; 19, p. 5). Contaminated runoff resulting from the fire-fighting efforts caused a fish kill in the nearby Sunflower River (Ref. 19, p. 5). The contaminant was determined to be Lorox, a slightly toxic herbicide (Ref. 19, p. 5). A large volume of contaminated water was contained on the property and later shipped to a commercial hazardous waste disposal facility (Ref. 19, p. 5). During cleanup of the fire, approximately 382 old fiber drums were discovered in the crawlspace below the warehouse (Ref. 19, p. 5). Of those drums, 287 were empty and subsequently crushed and sent to the local municipal landfill (Ref. 19, p. 5).

Ninety-five (95) drums contained trace residues of technical grade dieldrin and were disposed of at a commercial hazardous waste facility. A new warehouse was built over this area in 1986 (Ref. 19, p. 5).

2.4 REGULATORY HISTORY

Air Permits for discharge of boiler particulates and pesticide formulation particulates were issued from April 1979 through April 1991. Early permits authorized Red Panther to operate air emissions equipment and emit air contaminants from “formulation of herbicides and pesticides,” and that “such air emissions equipment should be operated as efficiently as possible to provide the maximum reduction of air contaminants” (Ref. 35, p. 5). By 1985, the air permits included a limit of 5.4 pounds per hour for particulate matter from the manufacturing process. By 1988, the approved particulate matter amount was reduced to a combined manufacturing activities total of 1.15 pounds per hour (Ref. 35, pp. 17, 35-38).

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 (Refs. 5, p. 5; 6, p. 3; 7, p. 8). Wastewater and solvents containing pesticide and solvent residues were generated from cleaning of equipment (Refs. 6, p. 3; 7, p. 8). Prior to obtaining interim status, wastewater containing pesticide and solvent residues were generated from the cleaning of equipment at the facility and discharged either directly to a drainage ditch or into an underground septic tank and drain field on the facility property (Refs. 6, p. 5; 7, pp. 8-9). 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 facility (Ref. 6, p. 4).

In November 1986, the Red Panther RCRA storage permit was terminated because Red Panther lost its liability insurance coverage that is required for long-term storage of hazardous wastes (Ref. 19, p. 5). At that time, Red Panther reverted to the status of a hazardous waste generator with short-term (less than 90 days) storage only (Ref. 19, p. 5).

Following a November 1999 EPA-led investigation, the Administrative Order on Consent (AOC) for the Red Panther property between the Potentially Responsible Parties (PRP) and EPA Region 4 was finalized on September 4, 2001 (Ref. 9, pp. 25-48). The AOC identified four constituents of concern (COCs) for surface soil criteria and three COCs for subsurface soil criteria (Ref. 9, pp. 6-7, 21-24). The surface COCs were identified as arsenic, toxaphene, dieldrin, and total chlorinated pesticides (Ref. 9, p. 6). The subsurface COCs were identified as arsenic, toxaphene, and dieldrin (Ref. 9, p. 7). The AOC required the

PRPs to perform two phases of removal activities and disposal of excavated materials under all requirements of the AOC (Ref. 9, pp. 5-9). EPA subsequently issued the Action Memorandum documenting approval of the proposed removal action (Ref. 10).

2.5 PREVIOUS INVESTIGATIONS

A Preliminary Assessment (PA) was conducted in June 1984 by MBPC (Ref. 20, p. 4). In August 1984, MBPC conducted a sampling inspection at the facility (Ref. 6, p. 5). Environmental samples were collected from locations around the property to determine and characterize any hazardous substances present. Two composite soil samples were collected from the adjacent ditch along Normandy Street and Patton Street (Ref. 6, p. 5). One water sample was collected from the point where wastewater leaves the property and discharges into the ditch (Ref. 6, p. 5). One subsurface composite soil sample was collected around the septic tank and drainage field (Ref. 6, p. 5). All samples were analyzed for pesticides and total arsenic (Ref. 6, p. 5). Results indicated elevated levels of several pesticides and arsenic in both the soil and sediment samples (Ref. 6, p. 5).

On February 22, 1990, MBPC submitted the Preliminary Assessment Reassessment (PAR) report to EPA Region 4 (Ref. 6, pp. 1-8). The PAR report summarized the investigations and findings at the facility and recommended a Site Screening Investigation (SSI) on a medium priority basis (Ref. 6, pp. 1-8).

On January 31, 1991, the MDEQ submitted the Screening Site Inspection (SSI) report (Ref. 19, p. 1). The sampling investigation was conducted at the facility on November 12 and 13, 1990 (Ref. 19, pp. 3, 21-47). A total of nine samples were collected during the SSI including one surface soil, three sediment samples, two subsurface soil samples, and three ground water samples (Ref. 19, pp. 10-11, 16). From the nine samples, one surface (RPC-SDS-03) and one subsurface soil (RPC-SBS-04) sample were collected from the commercial property north of the Red Panther property and designated as background samples (Ref. 19, pp. 10-11, 16). Background samples were not collected for every matrix; therefore, appropriate comparison could not be established for all matrices (Ref. 19, pp. 10-11, 16). Samples were analyzed for all compounds listed in the EPA Target Compound List (TCL) (Ref. 19, pp. 10, 16). According to the 1991 SSI, sediment samples contained high levels of pesticides, metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) (Ref. 19, pp. 10-12, 17-20). Ground water samples contained only detections of metals (Ref. 19, pp. 11-12). Based on these results, MDEQ recommended further investigation on a medium-priority basis (Ref. 19, p. 12).

On January 30, 1992, MDEQ submitted a Site Investigation Prioritization (SIP) to EPA Region 4 (Ref. 21, p. 1). The SIP recommended that no further remedial action be planned (NFRAP) for Red Panther, due to the lack of on-site waste quantity information provided in the 1991 SSI report and the subsequent low HRS score (Ref. 21, p. 1). The site score calculation was based on the sample results available during the SIP evaluation and focused on the groundwater pathway drinking water threat. The score was not sufficient to place the site on the NPL (Ref. 21, p. 3). The site was archived on January 31, 1992 (Ref. 20, p. 4).

Formulation activities at the site ceased in 1996 (Ref. 9, p. 2). Federal and State interest in the site continued and in 1999, EPA tasked Tetra Tech EM, Inc. START to conduct a Removal Assessment to sample surface and subsurface soil from the drainage ditches east of the property, the former facility 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. 22, pp. 4, 5, 13-26). Samples were analyzed for RCRA metals and pesticides (Ref. 22, p. 10). The results from the sampling event indicated that the facility 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 (Ref. 22, pp. 10, 27-41). The analytical results also revealed a wide concentration range for lead; however, lead concentrations were below the removal action level of 400 mg/kg (Ref. 22, pp. 10, 27-41).

2.6 ON-SITE REMOVAL ACTIVITIES

The PRP commenced the removal action on November 11, 2002 and had completed the activities by July 29, 2005 (Ref. 20, p. 3). The PRP retained NewFields and URS Corporation (URS) to perform the work required to fulfill the requirements of the AOC (Ref. 7, p. 9). The AOC required the work to be performed in two phases. Phase I consisted of the following components:

- 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 facility 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 (Ref. 7, p. 6).

On March 18, 2003, URS submitted the Phase I Removal Action Report and the Phase I Soil Characterization Report (Refs. 7, p. 1; 23, p. 1). Based on the results, URS recommended addressing the

soils exceeding performance standards and disposal options for the stockpiled soils in Ditch 1 in the Phase II Work Plan (Ref. 9, p. 17). The report was approved by EPA on April 10, 2003 (Ref. 24, p. 8).

Administrative records were compiled on November 6, 2003 (Ref. 20, p. 3). On December 22, 2003, EPA announced the availability of the Red Panther Administrative Record for public review (Ref. 25, p. 1). The Administrative Record includes documents that form the basis for selection of the removal action (Ref. 25, p. 1).

Phase II of the removal action consisted of on-site soil removal activities (Ref. 24, p. 8). On October 14, 2005, URS and NewFields submitted the Phase II Soil Removal Report for Red Panther (Ref. 26 p. 1). The PRP Group requested a “No Further Action” and termination of the order based on the successful completion of the AOC requirements (Ref. 26, p. 8). The AOC requirements were completed by implementing the Phase I ditch characterization and removal in 2002, the Phase I characterization of the facility soils in 2002 and 2003, and the Phase II soil removal in 2005 (Ref. 26, p. 8). All PRP removal activities were overseen and documented by Weston Solutions, Inc. (Weston) START-2 at the request of EPA (Ref. 5, p. 4).

2.7 POST-REMOVAL INVESTIGATIONS

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 (Ref. 27, p. 1). On December 22, 2005, Weston submitted a Final Removal Assessment Letter Report for the 18th Street Neighborhood site (Ref. 27, p. i).

On August 9, 2005, Weston began collecting samples for EPA at the 18th Street Neighborhood (Ref. 27, p. 4). The 18th Street Neighborhood is a residential area located to the west of Red Panther (Refs. 4; 27, pp. 1, 10; 28). The neighborhood consists of single family dwellings on approximately 0.25 acre lots (Ref. 28). The area of interest included properties on 14th, 15th, 16th, 17th, 18th, 19th, and West Tallahatchie Streets (Ref. 27, p. 4).

A total of 31 composite samples, including a background (SN-01-SS), were collected from the residential yards in the 18th Street Neighborhood (Ref. 27, pp. 4, 21-44). The background sample was collected from nearby B.F. McLaurin Park as a reference to determine what direct impact Red Panther operations might have had on the soils in the neighborhood (Ref. 27, pp. 4, 37-38). During the investigation, four

active municipal ground water supply wells were also sampled (Ref. 27, p. 5). Of these four wells, two were shallow wells (approximately 600 feet deep) from the Sparta aquifer, and two were deep wells (approximately 1,000 feet deep) from the Upper Wilcox aquifer (Ref. 27, p. 5). All samples collected during the investigation were analyzed for pesticides, aluminum, arsenic, iron, and other metals (Ref. 27, pp. 13-19, 75-168). Of the 30 residences sampled, 24 soil samples were elevated above background concentrations for pesticides (Ref. 27, pp. 13-19). No pesticides were detected in the municipal ground water samples. No metals were detected at elevated concentrations in any samples (Ref. 27, pp. 75-168).

On November 7, 2005, the site was removed from the EPA CERCLA Information System (CERCLIS) archive list (Ref. 20, p. 3). This action indicated that EPA did not consider Superfund assessment of the site to be completed.

In October 2007, T. N. and Associates (TN&A, now OTIE) START conducted a Site Investigation (SI) to fill data gaps related to the Ground water Migration Pathway (Ref. 29, pp. 15-16, 288-304). Fourteen (14) ground water samples were collected; nine temporary monitoring well samples, one permanent monitoring well sample, and four municipal well samples (Ref. 29, pp. 16, 288-304). The temporary monitoring wells were installed to depths ranging from 25.12 feet to 47.8 feet within the Mississippi Alluvial aquifer (Ref. 29, pp. 16, 288-304). The temporary monitoring wells were compared to sample RP-TW-02, and elevated concentrations of contaminants were detected in all wells except well RP-TW-01 (Ref. 29, pp. 162-286). Constituents detected at elevated levels in the temporary monitoring wells included pesticides and metals (Ref. 29, pp. 36-37). One existing on-site permanent monitoring well (RP-TW-02) was sampled and indicated the presence of pesticides and metals; however, no background well was available for comparison (Ref. 29, pp. 173-174, 202). Four municipal wells located within a 4-mile radius of the property were also sampled (Ref. 29, p. 17). Two wells completed in the Sparta aquifer (shallow aquifer) indicated the presence of several metals including barium, copper, iron, lead, manganese, and zinc at HRS-elevated concentrations; however, no site-attributable constituents were detected (Ref. 29, pp. 35, 86-93, 116, 121, 123, 125, 127, 129, 131, 133, 135, 160). The deeper municipal wells, completed in the Meridian Upper-Wilcox aquifer, indicated no elevated levels of analytes (Refs. 29, pp. 35, 44-80; 30, p. 3, 5).

2.8 SOURCE AREAS

The source areas at the site consist of contaminated soil at the former facility remaining in place beneath existing structures and at a depth of greater than 1.5 feet following the removal activities, and in

surrounding residential areas as a result of air emissions from the Red Panther facility. Areas of pesticide-contaminated soil have been previously documented to exist in the 18th Street residential neighborhood, but may also be present in additional locations throughout the sampling area. Additional areas were defined by the soil samples collected during this sampling event.

3.0 AIR DEPOSITION STUDY ACTIVITIES

This section outlines the sampling procedures used at Red Panther during the field sampling event conducted by START the week of June 28, 2010. Individual subsections address the sampling investigation and rationales for specific air deposition study activities. The study was conducted in accordance with the EPA-approved QAPP/SSP, dated June 25, 2010 (Ref. 2).

The sampling design was assembled with the objective of determining if pesticide contamination found in the 18th St neighborhood is a result of facility activities or if it could be the result of larger agricultural application (crop dusting) in the areas to the south. START performed field investigation activities in the residential and commercial areas around the site that included the collection of environmental samples to confirm the presence or absence of pesticides in surface soils within ¼ mile of the Red Panther property. Composite surface soil samples were collected to determine pesticide concentrations in the study area. All field sampling activities were performed in accordance with the guidance presented in the approved site-specific QAPP/SSP and in accordance with the EPA SESD FBQSTP (Refs. 1, 2).

The investigation was conducted from June 29 to July 1, 2010. A total of 76 locations were sampled during the investigation as follows:

- 73 composite surface soil samples in every direction around the facility
- 3 composite background surface soil samples from areas 0.7 – 1.1 mile distant from the facility

The composite surface soil samples were collected from the 0 to 3 inch bgs interval. Each sample consisted of nine aliquots within the 25- by 25-foot sample grid. In addition, three background samples were collected in the same manner from three residential properties located in neighborhoods approximately 1 mile to the west and northwest, and approximately 0.7 mile to the north of the facility.

Sampling locations are illustrated on Figure 3 located in Appendix A. Table 1 located in Appendix B lists the geographic coordinates of all the samples collected and the type of property the sample was collected

from. Table 2 provides a summary of all the sample analytical results. All soil samples collected were submitted to EPA SESD laboratory for routine TCL pesticide analytical services (Ref. 3).

The following subsections summarize field investigation activities including surface soil sampling (Subsection 3.1) and the global positioning system (GPS) survey (Subsection 3.2). Table 1 located in Appendix B presents a summary of all of the samples collected and their associated geographic coordinates. Photographic documentation is provided as Appendix C.

3.1 SAMPLE COLLECTION METHODOLOGY AND PROCEDURES

Nine-point composite surface soil samples were collected from 76 locations, including three background locations. Surface soil samples were collected to determine pesticide concentrations in all directions from the facility. Data obtained from this investigation provides information needed to determine the need for further EPA response under CERCLA.

The 73 surface soil samples were collected in a grid pattern with 300-foot spacing in all directions from the Red Panther facility, up to approximately ¼-mile from the property. The three background samples were collected at distances of 0.7, 0.8, and 1.1 miles, in areas believed to be unaffected by facility operations. Air deposition studies are intended to investigate areas rather than discrete point-locations. Thus soil samples for this purpose involve a large number of aliquots per sample. Therefore, at each 300-foot center, a 25- by 25-foot grid was applied. Nine aliquots were collected evenly spaced and approximately 12 feet from each other within the grid. If the 25- by 25-foot sampling grid locations were offset due to impermeable surfaces or problematic locations, modifications were documented in the field sampling logbook. Areas where a 25- by 25-foot grid could not fit, the grid was reset to include as square a grid as possible and enclosing the same size area (total square feet).

Within each sampling grid, the nine-point composite sample was collected from the top 3 inches of soil. When the sampling grid was located on a private residential property, each aliquot was collected no farther than 200 feet from the home, and all aliquots were collected from the same property. All modifications from the standard 25- by 25-foot grid, the distance of the furthest aliquot from the home, and the location of each aliquot was documented in the field sampling logbook.

The background samples were collected from residential properties similar in age and soil type to the 18th Street neighborhood. The samples were collected from three different residential neighborhoods, located

approximately 0.8 mile to the west-northwest, 1.1 mile to the northwest, and 0.7 mile to the northeast of the facility.

All sample aliquots for composite surface soil samples were collected using stainless steel spoons and bowls. The soil was homogenized in stainless steel bowls, placed in an 8-ounce glass jar, and stored on ice. START submitted the 76 surface soil samples, and additional QA/QC samples, to the SESD laboratory for TCL pesticide analytical services.

3.2 SAMPLE LOCATION DOCUMENTATION

A Trimble™ GeoXT™ GPS was used in the field to document sampling locations. GPS coordinates were collected from the center aliquot of each sampling location. Specific information associated with each sampling location/grid was documented within the logbook and included the grid size, aliquot layout within the grid, GPS location, photographic image filename, and any other relevant specific information related to the sample grid (i.e. close to treated wood). Photographs of each location were also taken with pin flags marking each aliquot's location.

3.3 ANALYTICAL SUPPORT AND METHODOLOGY

All soil samples collected during the study were processed and tracked using the *FORMS II Lite*® sample tracking software. EPA selected the EPA Region 4 SESD laboratory in Athens, Georgia to analyze the soil samples. All samples were shipped to the SESD laboratory following each day's collection. Soil samples were analyzed for pesticides (SW846 Method 8081). SESD also performed analytical data validation. Validated data for this report were then submitted to START. Analytical data sheets are presented as Appendix D.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware, and reagents. This section describes the QA/QC measures taken and provides an evaluation of the usability of data presented in this report.

All samples were collected in accordance with the EPA SESD FBQSTP, and the guidance presented in the approved site-specific QAPP/SSP (Refs. 2; 32). Specific QA/QC requirements for laboratory analyses are incorporated in the CLP SOW for Organics Analysis (SOM01.2) (Ref. 3). These QA/QC requirements were followed for analytical work on the project.

4.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Ten QA/QC samples (eight duplicate soil samples and two equipment rinsate blanks) were collected during the sampling event. QA/QC samples included matrix spike (MS)/matrix spike duplicate (MSD) and field duplicate (DUP) samples for organic analyses at a rate of one MS/MSD per 20 samples per matrix per analysis, and one DUP per 10 samples per matrix per analysis. Field duplicate samples were within permissible limits of each other as allowed by the CLP National Functional Guidelines (NFG) for organic analysis of soils.

4.2 LABORATORY ANALYSIS (Data Quality and Qualifiers)

Data from laboratory was reviewed and validated by SESD in accordance with the National Functional Guidelines (NFG) and Data Validation Standard Operating Procedures for CLP Routine Analytical Services (Ref. 3). A case narrative and data qualifier report was generated for the lab data. The case narrative provides a summary of any deficiencies associated with each lab data set, and the data qualifier report alerts the project leader of QA/QC problems identified during the data validation process. A complete copy of the analytical results, case narrative, and data qualifier report are included as Appendix D.

In the text and analytical data tables in this report, some concentrations of organic 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 sample quantitation limit (SQL) for the constituent in that sample. A few results were qualified with a “D-4”, meaning that the laboratory Minimum Reporting Limit (MRL) was elevated due to interferences. Sample results qualified with a “Q-4” indicate that there was a greater than 40-percent difference between the primary and confirmatory GC columns.

5.0 AIR DEPOSITION RESULTS AND FINDINGS

The following section summarizes the SESD laboratory results for samples collected during the field activities. Data obtained from this investigation provides information needed to determine the extent of soil contamination in the areas surrounding the site.

5.1 PREVAILING WIND DIRECTION

No historic wind data could be identified from Clarksdale, MS. The nearest historic wind data was obtained from Memphis, TN, located 75 miles to the North Northeast. Wind direction data from 1961-1990 in Memphis indicates widely varying wind direction throughout the year with slightly dominant wind directions varying from month to month, but no truly dominant wind direction identified (Ref. 32).

5.2 AIR DEPOSITION RESULTS

A total of 84 nine-point composite surface soil samples were collected from 76 sample locations; 73 samples in areas surrounding the site, three samples from background locations, and eight duplicate samples. Surface soil sampling locations are illustrated in Figure 3 located in Appendix A and described in Tables 1 and 2 in Appendix B. Surface soil analytical results are presented in Table 2 located in Appendix B. Sample results with concentrations greater than 3 times the background were considered elevated and are shaded in the table. For secondary comparison purposes, EPA Region 4 Regional Screening Levels (RSL) for direct contact with residential soil is included in the second column. Concentrations exceeding RSL are bolded.

5.2.1 Background Surface Soil Analytical Results

Three 9-point composite surface soil samples were collected (CS-01, -02, and -03) from three residential properties in Clarksdale considered to be outside the site range of influence. The background samples were collected to establish baseline pesticide levels for the community. Concentrations from all three background samples were used to establish the baseline pesticide levels. The highest contaminant concentration of the three samples was used for comparison purposes.

In the background samples, DDD was not detected above the laboratory detection limit of 10 micrograms per kilogram ($\mu\text{g}/\text{kg}$). DDE was detected in all three samples, ranging from 4.8 to 20 $\mu\text{g}/\text{kg}$; however all

values were below the Region 4 Regional Screening Level (RSL) of 1,400 µg/kg. RSLs are conservative risk-based screening values developed by EPA to help identify contaminants of potential concern. Toxaphene was not detected above the laboratory detection limit of 350 µg/kg in any of the three background samples. Dieldrin was detected in all three background samples ranging from 4.9 to 52 µg/kg; one sample RP-CS-03 (52 µg/kg) was above the Region 4 RSL of 30 µg/kg.

5.2.2 Surface Soil Analytical Results

The 73 nine-point composite surface soil samples and eight duplicate samples were collected from 73 locations in all directions surrounding the site. The samples were submitted to the SESD laboratory for pesticide analyses. Analytical results indicated that pesticides were detected in all 84 samples. For the purposes of this report, only those constituents detected at concentrations exceeding three times the highest background concentration are detailed in this section.

Thirty-two of the 84 samples submitted to the laboratory for pesticide analysis exceeded three times the background concentrations. The elevated contaminants included 4, 4'-DDD (DDD); 4, 4'-DDE (DDE); 4, 4'-DDT (DDT); Aldrin; alpha-BHC; alpha-Chlordane; beta-BHC; delta-BHC; Dieldrin; Endosulfan II (beta); Endosulfan Sulfate; Endrin; Endrin aldehyde; gamma-BHC (Lindane); gamma-Chlordane; Heptachlor; Heptachlor epoxide; and Toxaphene. A summary of the analytical results are presented in Table 2 located in Appendix B. Figures 4, 5, 6, and 7 in Appendix A provide analytical results for DDD, DDE, Toxaphene, and Dieldrin, respectively.

Sample results identified DDD concentrations ranging from non-detect (<1.7 µg/kg) to 220 µg/kg; five of the 73 samples exhibited DDD concentrations greater than three times that of the highest background concentration. DDE concentrations ranged from 1.4 µg/kg to 1,100 µg/kg; 19 of the 73 samples collected exhibited DDE concentrations greater than three times that of the highest background concentration. Toxaphene concentrations ranged from non detect (<84 µg/kg) to 5,900 µg/kg; five of the 73 samples collected exhibited Toxaphene concentrations greater than three times that of the highest background concentration. Dieldrin concentrations ranged from non detect (0.85 µg/kg) to 3,800 µg/kg; seven of the 73 samples collected exhibited Dieldrin concentrations greater than three times that of the highest background concentration.

5.3 AIR DEPOSITION STUDY FINDINGS

Pesticide concentrations of either DDT and/or its breakdown compounds DDD and DDE were detected in 74 of the 76 samples, including the 3 background samples. The presence of these contaminants in the vast majority of samples may suggest their use in the area was widespread; however, higher concentrations of DDT, DDD, and DDE were identified in samples closer to Red Panther (see Figures 4 and 5 in Appendix A). More distant lower concentrations including those found in background concentrations are not likely to have resulted from former facility activities.

Toxaphene was identified in a total of eight samples near the facility, with the higher concentrations occurring close to the facility and the highest concentration (5,900 µg/kg) identified in the sample closest to the site (CS-61). The distribution of toxaphene contaminant concentrations suggests the facility as the likely source of toxaphene, not general agricultural use in the area (see Figure 6, Appendix A).

Dieldren was identified in approximately half of the samples collected, generally in higher concentrations around the facility and declining concentrations to non-detect concentrations at the peripheral extent (outlying samples) of the study. The highest dieldren concentration (3,800 µg/kg) was identified in sample closest to the facility (CS-61). The absence of dieldren in the outlying sample areas located closer to agricultural fields and the presence of higher concentrations near the Red Panther facility suggests the facility to be the likely source of dieldren contamination in the area (see Figure 7, Appendix A).

6.0 SUMMARY AND CONCLUSIONS

Red Panther is a 6.5 acre property that operated as a pesticide formulation plant between 1949 and 1996 producing liquid and dry herbicides, insecticides, and fungicides. Chemicals used in the formulation included toxaphene, methyl parathion, chlorpyrifos, 2,4-D, malathion, carbaryl, diazinon, methoxychlor, disodium methanearsonate, monosodium acid methanearsonate, chlorothalonil, and parathion. Pesticide contamination on the property is considered 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.

Although surficial contaminated soil previously located on site has been removed, source contaminants documented to exist in association with historical operations on site, include but are not limited to,

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 study, START personnel collected soil samples from June 29 to July 1, 2010 to confirm the presence of pesticides in surface soils resulting from air deposition associated with the Red Panther facility. A total of 84 nine-point composite surface soil samples were collected during this investigation (73 soil samples, 8 duplicate samples, and 3 background samples). The samples were submitted to the SESD laboratory for analysis of pesticides.

Analytical results indicated that pesticides were detected in all 84 samples. Thirty-two of the 84 samples submitted to the laboratory for pesticide analysis exceeded three times the background concentrations. The elevated contaminants included 4, 4'-DDD (DDD); 4, 4'-DDE (DDE); 4, 4'-DDT (DDT); Aldrin; alpha-BHC; alpha-Chlordane; beta-BHC; delta-BHC; Dieldrin; Endosulfan II (beta); Endosulfan Sulfate; Endrin; Endrin aldehyde; gamma-BHC (Lindane); gamma-Chlordane; Heptachlor; Heptachlor epoxide; and Toxaphene. Higher contaminant concentrations located near the site suggest contamination is likely a result of historic Red Panther facility activities and not a result of agricultural use of these compounds in nearby agricultural fields.

7.0 REFERENCES

1. U.S. Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD), Region 4. *Field Branches Quality System and Technical Procedures (FBQSTP)*. November 2007.
2. Oneida Total Integrated Enterprises (OTIE). Red Panther Chemical Company Site-Specific QAPP/Site Sampling Plan (SSP). June 25, 2010.
3. USEPA. Superfund Analytical Services/Contract Laboratory Program. Guidance Documents. Internet address: <http://www.epa.gov/superfund/programs/clp>. Last accessed: October 10, 2006.
4. U.S. Geological Survey (USGS). 7.5-minute Series Topographic Quadrangle Maps of Mississippi: Friars Point, 1978; Coahoma, 1965; Jonestown, 1969; Sherard, 1968; Clarksdale, 1968; Sabino, 1981; Duncan, 1986; Mattson, 1969; Tutwiler, 1968.
5. Weston Solutions, Inc. (Weston). *Final Removal Action Letter Report, Revision 1: Red Panther Chemical Company*. Prepared for the U.S. Environmental Protection Agency (EPA) Region 4. December 27, 2005.
6. Mississippi Office of Pollution Control (MSOPC). *A Preliminary Assessment Reassessment (PAR) Report for Red Panther Chemical Company*. February 22, 1990.
7. URS Corporation (URS). *Phase I Removal Action Report*. Submitted to Red Panther PRP Group. March 18, 2003.
8. Oneida Total Integrated Enterprises - T N & Associates, Inc. (OTIE-TN&A). E-mail Correspondence between Stacy Kowalski, OTIE-TN&A and Tom Davis, Treasurer, Red Panther Chemical Company. Subject: Number of Workers at Coahoma Warehousing Facility (former Red Panther Chemical facility). January 27, 2010.
9. USEPA. *Administrative Order on Consent for Removal Action – Red Panther*. Signed July 2001.
10. USEPA. Action Memorandum. Subject: Request for an Enforcement Removal Action at the Red Panther Site, Clarksdale, Mississippi. Signed September 6, 2001.
11. Weatherbase. Weatherbase: Historical Weather for Clarksdale, Mississippi. Internet address: <http://www.weatherbase.com/weather>. Accessed January 20, 2006.
12. USGS. *Water for Industrial and Agricultural Development In Coahoma, De Soto, Panola, Quitman, Tate, and Tunica Counties, Mississippi*. 1976.
13. USGS. *Characterization of Aquifers Designated As Potential Drinking-Water Sources In Mississippi*. Date unknown.
14. USGS and Mississippi Research and Development Center. Sources for Water Supplies in Mississippi. 1980.
15. TN&A. Project Note and MDEQ Red Panther Radial Well Search Results Report and Map. April 3, 2009.
16. Stacy Kowalski, Project Manager, OTIE. Phone Record with Rusty Manuel, Operator of Records, Clarksdale Public Utilities. Subject: Clarksdale Municipal Wells. January 28, 2010.
17. U.S. Census Bureau. Census 2000 Demographic Profile for Coahoma County, Mississippi. Internet address: <http://factfinder.census.gov>. Accessed February 1, 2006.

REFERENCES (CONTINUED)

18. U.S. Census Bureau. Landview V – 2000 Census Data. Accessed April 3, 2009.
19. MSOPC. *Screening Site Inspection Report*. January 31, 1991.
20. USEPA Envirofacts Warehouse. Envirofacts query results for “MSD000272385”. Internet address: http://www.epa.gov/enviro/html/multisystem_query_java.html. Accessed January 1, 2006.
21. Mississippi Department of Environmental Quality (MDEQ). *Site Investigation Prioritization*. January 30, 1992.
22. Tetra Tech EM, Inc. *Letter Report*. Submitted to USEPA Region 4. September 2, 1999.
23. URS. *Phase I Soil Characterization Report*. Submitted to Red Panther PRP Group. March 18, 2003.
24. URS. *Phase II Final Design Sampling Draft Report*. Submitted to Red Panther PRP Group. August 5, 2004.
25. USEPA. Environmental News. Subject: EPA Announces The Availability Of The Administrative Record For The Red Panther Chemical Site, Clarksdale, Mississippi. December 22, 2003.
26. NewFields and URS. Phase II Soil Removal Report: Red Panther Site Clarksdale, Mississippi. Prepared for EPA. October 14, 2005.
27. Weston. *Final Removal Assessment Letter Removal Report: 18th Street Neighborhood*. Submitted to USEPA Region 4. December 22, 2005.
28. Technical Service Industries, Inc. (TSI). Coahoma County, Mississippi. Plat Map. 18th Street Neighborhood.
29. TN&A. Site Investigation Report for the Red Panther Corporation, Revision 1. September 22, 2008.
30. MDEQ. Red Panther Radial Well Search Results Report and Map. April 3, 2009.
31. USEPA. EPA *Guidance on Choosing a Sampling Design for Environmental Data Collection (QA/G-5S)*.
32. U.S. Department of Agriculture. Natural Resources Conservation Service. Historic Monthly Wind Rose Plots for Memphis, Tennessee. 1961 – 1990.
33. MDEQ. 1938 Aerial photograph of Clarksdale, MS. Provided by Robert Huckaby. August 26, 2009.
34. World Health Organization. *DDT and Its Derivatives*. International Standard Book Number (ISBN) 92 4 154069 9. Geneva. 1979.
35. MDEQ. Air Permits for particulates issued by the Bureau of Pollution Control, Mississippi Department of Natural Resources. April 1979 – April 1991.

APPENDIX A

FIGURES

APPENDIX B

TABLES

TABLE 1
AIR DEPOSITION STUDY
SAMPLE LOCATION SUMMARY
RED PANTHER CHEMICAL

Sample ID	Latitude (POINT Y)	Longitude (POINT X)	Type of Property (Residential, Commercial, Public/City)
RP-CS-01			Residential
RP-CS-02			Residential
RP-CS-03			Residential
RP-CS-04			Residential
RP-CS-05			Residential
RP-CS-06			Residential
RP-CS-07			Residential
RP-CS-08	34.18988000000	-90.56477000000	Commercial
RP-CS-09	34.18964000000	-90.56360000000	Commercial
RP-CS-10	34.18970000000	-90.56249000000	Commercial
RP-CS-11	34.18991178420	-90.56162641270	Commercial
RP-CS-12	34.18980381890	-90.56026845670	Commercial
RP-CS-13			Residential
RP-CS-14			Residential
RP-CS-15			Residential
RP-CS-16	34.18908997240	-90.56835441020	Public/City
RP-CS-17			Residential
RP-CS-18			Residential
RP-CS-19			Residential
RP-CS-20	34.18894000000	-90.56429000000	Commercial
RP-CS-21	34.18910914770	-90.56346109930	Commercial
RP-CS-22	34.18909000000	-90.56253000000	Commercial
RP-CS-23	34.18909000000	-90.56111000000	Commercial
RP-CS-24	34.18896000000	-90.56074000000	Commercial
RP-CS-25	34.18906938350	-90.55962296450	Commercial
RP-CS-26			Residential
RP-CS-27			Residential
RP-CS-28	34.18822997240	-90.56811441010	Public/City
RP-CS-29			Residential
RP-CS-30			Residential
RP-CS-31			Residential
RP-CS-32			Residential
RP-CS-33			Residential
RP-CS-34			Residential
RP-CS-35			Residential
RP-CS-36	34.18735996550	-90.56834801240	Public/City
RP-CS-37			Residential
RP-CS-38			Residential

TABLE 1
AIR DEPOSITION STUDY
SAMPLE LOCATION SUMMARY
RED PANTHER CHEMICAL

Sample ID	Latitude (POINT Y)	Longitude (POINT X)	Type of Property (Residential, Commercial, Public/City)
RP-CS-39			Residential
RP-CS-40			Residential
RP-CS-41	34.18773056650	-90.56357406400	Commercial
RP-CS-42	34.18767000000	-90.56095000000	Commercial
RP-CS-43	34.18766000000	-90.55976000000	Commercial
RP-CS-44			Residential
RP-CS-45			Residential
RP-CS-46	34.18674000000	-90.56862000000	Public/City
RP-CS-47			Residential
RP-CS-48			Residential
RP-CS-49			Residential
RP-CS-50			Residential
RP-CS-51	34.18671597010	-90.56311951530	Commercial
RP-CS-52	34.18667000000	-90.55885000000	Commercial
RP-CS-53	34.18659000000	-90.55761000000	Public/City
RP-CS-54	34.18597000000	-90.56876000000	School
RP-CS-55	34.18598832860	-90.56759478970	School
RP-CS-56	34.18574971630	-90.56656871910	School
RP-CS-57			Residential
RP-CS-58			Residential
RP-CS-59			Residential
RP-CS-60			Residential
RP-CS-61	34.18601640360	-90.56201484690	Commercial
RP-CS-62	34.18576003540	-90.55929078710	Commercial
RP-CS-63	34.18564961550	-90.55866827930	Commercial
RP-CS-64	34.18572000000	-90.55759000000	Public/City
RP-CS-65	34.18495803390	-90.56851542400	School
RP-CS-66	34.18495000000	-90.56752000000	School
RP-CS-67	34.18497552100	-90.56642713550	School
RP-CS-68	34.18499314370	-90.56540028900	Public/City
RP-CS-69	34.18501000000	-90.56455000000	Public/City
RP-CS-70	34.18498000000	-90.56356000000	Public/City
RP-CS-71	34.18480729530	-90.56259442090	Public/City
RP-CS-72	34.18435955710	-90.56188541510	Public/City
RP-CS-73	34.18389000000	-90.55935000000	Commercial
RP-CS-74	34.18410000000	-90.55873000000	Commercial
RP-CS-75	34.18503000000	-90.55890000000	Commercial
RP-CS-76	34.18522000000	-90.55722000000	Public/City

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-01	RP-CS-02	RP-CS-03	RP-CS-04	RP-CS-05	RP-CS-06
		Background	Background	Background			
4,4'-DDD (p,p'-DDD)		10 U	6.3 U	6.3 U	4.4 U	220	8.9 U
4,4'-DDE (p,p'-DDE)		20	4.8	20	38	220	27
4,4'-DDT (p,p'-DDT)		30	9.7	18	73	310	48
Aldrin		1 U	3.1 U	3.1 U	0.95 U	12	4.5 U
alpha-BHC		0.51 U	1.6 U	1.6 U	0.48 U	2.4 U	2.2 U
alpha-Chlordane		21 J	3.1 U	25 U	0.95 U	300 J	4.5 U
beta-BHC		1 U	3.1 U	3.1 U	0.95 U	4.8 U	4.5 U
delta-BHC		2.7 U	3.1 U	3.1 U	2.3 U	4.8 U	5.9
Dieldrin		21	4.9	52	2.9	230	160
Endosulfan II (beta)		2 U	6.3 U	6.3 U	1.9 U	9.5 U	8.9 U
Endosulfan Sulfate		2.5 U	7.9 U	7.8 U	2.4 U	12 U	11 U
Endrin		29 U	6.3 U	6.3 U	1.9 U	95 U	8.9 U
Endrin aldehyde		4.4 U	7.9 U	7.8 U	2.4 U	12 U	11 U
gamma-BHC (Lindane)		1.7 U	3 U	2.1 U	1.3 U	2.4 U	2.2 U
gamma-Chlordane		21	3.1 U	4.1	0.95 U	530	4.5 U
Heptachlor		2.4	2.4 U	2.4 U	0.72 U	210	3.3 U
Heptachlor epoxide		2.7 U	3.1 U	3.2	0.95 U	290	4.5 U
Toxaphene		350 U	310 U	310 U	95 U	210 UJ	450 U

Notes:

Residential Samples within 200 feet of structures

HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.

BOLD

Bold values represent concentrations over the RSL

U - The analyte was not detected at or above the reporting limit.

J - The identification of the analyte is acceptable; the reported value is an estimate.

NL - No RSL level available

RSL - Region 4 Regional Screening Level for direct contact with residential soil

ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-07	RP-CS-08	RP-CS-09	RP-CS-10	RP-CS-11	RP-CS-12
4,4'-DDD (p,p'-DDD)		9.1 U	6.2 U	15 U	5.6 U	5.9 U	6.9 U
4,4'-DDE (p,p'-DDE)		65	28	84	17	94	12
4,4'-DDT (p,p'-DDT)		79	43	84	13	110	22
Aldrin		4.6 U	3.1 U	7.7 U	2.8 U	3 U	3.4 U
alpha-BHC		2.3 U	1.6 U	3.8 U	1.4 U	1.5 U	3.4
alpha-Chlordane		4.6 U	3.1 U	7.7 U	2.8 U	8.2 U	3.4 U
beta-BHC		4.6 U	3.1 U	7.7 U	2.8 U	3 U	3.4 U
delta-BHC		4.6 U	3.1 U	7.7 U	2.8 U	3 U	3.4 U
Dieldrin		9.1	12 U	27	8.3	49	3.4 U
Endosulfan II (beta)		9.3 U	6.2 U	15 U	5.6 U	5.9 U	6.9 U
Endosulfan Sulfate		11 U	7.8 U	19 U	7 U	7.4 U	8.6 U
Endrin		9.1 U	6.2 U	15 U	5.6 U	5.9 U	6.9 U
Endrin aldehyde		11 U	11	19 U	7 U	7.4 U	8.6 U
gamma-BHC (Lindane)		2.3 U	1.6 U	3.8 U	1.4 U	1.5 U	1.7 U
gamma-Chlordane		5.8	3.1 U	7.7 U	2.8 U	3 U	3.4 U
Heptachlor		3.4 U	2.3 U	5.8 U	2.1 U	2.2 U	2.6 U
Heptachlor epoxide		6	3.1 U	7.7 U	2.8 U	3 U	3.4 U
Toxaphene		460 U	110 UJ	180 J	280 U	390 J	340 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-13	RP-CS-14	RP-CS-15	RP-CS-16	RP-CS-17	RP-CS-18
4,4'-DDD (p,p'-DDD)		6.8 U	6.4 U	6.2 U	1.7 U	4.8 U	9.3 U
4,4'-DDE (p,p'-DDE)		28	64	7.6	14	11	36
4,4'-DDT (p,p'-DDT)		22	60	7.8 U	18	28	63
Aldrin		3.4 U	3.2 U	3.1 U	0.84 U	0.91 U	34
alpha-BHC		1.7 U	1.6 U	1.6 U	0.42 U	0.45 U	2.3 U
alpha-Chlordane		3.4 U	3.2 U	3.1 U	0.84 U	0.91 U	96 J
beta-BHC		3.4 U	3.2 U	3.1 U	0.84 U	0.91 U	4.7 U
delta-BHC		3.4 U	3.2 U	3.1 U	1.9 U	2.4 U	4.7 U
Dieldrin		3.4 U	9.3	3.1 U	6.1	0.91 U	840
Endosulfan II (beta)		6.8 U	6.4 U	6.2 U	1.7 U	1.8 U	9.3 U
Endosulfan Sulfate		8.5 U	8 U	7.8 U	2.1 U	2.3 U	12 U
Endrin		6.8 U	6.4 U	6.2 U	1.7 U	5.3 U	31 U
Endrin aldehyde		8.5 U	8 U	7.8 U	2.1 U	2.3 U	12 U
gamma-BHC (Lindane)		1.7 U	1.6 U	1.6 U	1.8 U	2.3 U	2.3 U
gamma-Chlordane		3.4 U	3.2 U	3.1 U	0.84 U	2.2 U	68
Heptachlor		2.5 U	2.4 U	2.3 U	0.63 U	0.68 U	3.5 U
Heptachlor epoxide		3.4 U	3.2 U	3.1 U	1	2.2 U	6.5
Toxaphene		340 U	320 U	310 U	190 U	180 U	470 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-19	RP-CS-20	RP-CS-21	RP-CS-22	RP-CS-23	RP-CS-24
4,4'-DDD (p,p'-DDD)		9.4 U	6.1 U	2.4 U	2.5 U	17	120
4,4'-DDE (p,p'-DDE)		68	4.5	19	8.7	82	260
4,4'-DDT (p,p'-DDT)		78	7.6 U	18	9.3	65	240
Aldrin		4.7 U	3 U	4 U	1.2 U	7.7 U	7.6 U
alpha-BHC		2.4 U	1.5 U	0.61 U	0.62 U	3.9 U	3.8 U
alpha-Chlordane		16 J	3 U	1.2 U	1.2 U	7.7 U	7.6 U
beta-BHC		4.7 U	3 U	1.2 U	8.1 U	7.7 U	7.6 U
delta-BHC		4.7 U	3 U	1.3	1.2 U	7.7 U	7.6 U
Dieldrin		13	5.4 U	4.7	3.1	41	2200
Endosulfan II (beta)		9.4 U	6.1 U	2.4 U	2.5 U	15 U	15 U
Endosulfan Sulfate		12 U	7.6 U	3 U	3.1 U	19 U	19 U
Endrin		11 U	6.1 U	3.1	2.5 U	15 U	15 U
Endrin aldehyde		12 U	8	3.1	3.1 U	19 U	19 U
gamma-BHC (Lindane)		2.4 U	1.5 U	2 U	2.4 U	3.9 U	3.8 U
gamma-Chlordane		30	3 U	1.2 U	1.2 U	7.7 U	15
Heptachlor		16	2.3 U	0.91 U	0.93 U	5.8 U	5.7 U
Heptachlor epoxide		11	3 U	1.2 U	1.2 U	7.7 U	14
Toxaphene		470 U	300 U	120 U	120 U	280 J	5300

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-25	RP-CS-26	RP-CS-27	RP-CS-28	RP-CS-29	RP-CS-30
4,4'-DDD (p,p'-DDD)		2.5 U	8.4 U	2.4 U	7.5 U	19 U	9 U
4,4'-DDE (p,p'-DDE)		6.3	70	19	110	99	11
4,4'-DDT (p,p'-DDT)		12	61	24	57	82	11
Aldrin		1.3 U	1.2 U	1.2 U	0.84 U	4.4 U	1 U
alpha-BHC		0.63 U	0.61 U	0.61 U	0.42 U	2.2 U	0.7 U
alpha-Chlordane		1.3 U	1.2 U	1.2 U	0.84 U	4.4 U	1 U
beta-BHC		9.6 U	1.2 U	1.2 U	3.3 U	4.4 U	2.4 U
delta-BHC		1.3 U	1.2 U	1.2 U	0.84 U	4.4 U	3.3 U
Dieldrin		1.3 U	14	1.6	43	17	2.4 U
Endosulfan II (beta)		2.5 U	2.4 U	2.4 U	1.7 U	8.8 U	2 U
Endosulfan Sulfate		3.1 U	3 U	3 U	2.1 U	11 U	2.5 U
Endrin		2.5 U	2.4 U	2.4 U	8.7 U	14 U	7.6 U
Endrin aldehyde		3.1 U	7.9 U	3 U	2.1 U	11 U	2.5 U
gamma-BHC (Lindane)		5.9 U	4.4 U	0.61 U	0.93 U	3.6 U	2.4 U
gamma-Chlordane		1.3 U	1.2 U	1.2 U	0.84 U	4.4 U	1.5
Heptachlor		0.94 U	0.91 U	0.91 U	0.63 U	3.3 U	0.75 U
Heptachlor epoxide		1.3 U	1.2 U	1.2 U	0.84 U	4.4 U	1 U
Toxaphene		130 U	120 U	120 U	420 U	600 U	210 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-31	RP-CS-32	RP-CS-33	RP-CS-34	RP-CS-35	RP-CS-36
4,4'-DDD (p,p'-DDD)		40 U	22 U	2.5 U	2.5 U	2.4 U	4.2 U
4,4'-DDE (p,p'-DDE)		31	55	2.9	10	41	10
4,4'-DDT (p,p'-DDT)		36	110	4.6	13	48	13
Aldrin		1.9 U	1.9 U	1.2 U	1.2 U	1.2 U	0.84 U
alpha-BHC		0.95 U	0.96 U	0.62 U	0.61 U	0.59 U	0.42 U
alpha-Chlordane		40 J	14 J	1.2 U	1.2 U	14 U	0.84 U
beta-BHC		4.6 U	1.9 U	7.7 U	9.7 U	17 U	0.84 U
delta-BHC		3.4 U	2.1	1.2 U	1.2 U	1.4	0.84 U
Dieldrin		3.4 U	32	1.2 U	1.9	11	4.1 U
Endosulfan II (beta)		3.8 U	3.8 U	2.5 U	2.5 U	2.4 U	1.7 U
Endosulfan Sulfate		4.8 U	4.8 U	3.1 U	3.1 U	3 U	2.1 U
Endrin		3.8 U	18 U	2.5 U	2.5 U	2.4 U	4.3 U
Endrin aldehyde		4.8 U	4.8 U	3.1 U	3.1 U	4.3	2.1 U
gamma-BHC (Lindane)		4 U	2.3 U	6 U	5 U	6.9 U	0.57 U
gamma-Chlordane		70	26	1.2 U	1.2 U	1.9	0.84 U
Heptachlor		3.4 U	2.7	0.93 U	0.92 U	2.7 U	0.63 U
Heptachlor epoxide		10	7.8	1.2 U	1.2 U	1.2 U	0.84 U
Toxaphene		250 U	320 U	120 U	120 U	210 U	84 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-37	RP-CS-38	RP-CS-39	RP-CS-40	RP-CS-41	RP-CS-42
4,4'-DDD (p,p'-DDD)		8.5 U	9.4 U	15 U	2.4 U	14 U	5.7 U
4,4'-DDE (p,p'-DDE)		54	65	48	51	18	29
4,4'-DDT (p,p'-DDT)		54	330	130	64	31	11
Aldrin		1.8 U	4.7 U	2 U	1.2 U	7.1 U	2.9 U
alpha-BHC		0.91 U	2.3 U	1.2	0.59 U	3.5 U	1.4 U
alpha-Chlordane		1.8 U	53 J	2 U	1.2 U	11 U	2.9 U
beta-BHC		1.8 U	4.7 U	4.8	1.2 U	7.1 U	2.9 U
delta-BHC		1.8 U	4.7 U	2 U	1.6	7.1 U	2.9 U
Dieldrin		2.5 U	30 U	11	9.2	17	34
Endosulfan II (beta)		3.6 U	9.4 U	4 U	3	14 U	5.7 U
Endosulfan Sulfate		4.6 U	12 U	5.1 U	2.9 U	18 U	7.2 U
Endrin		11 U	49	16 U	18 U	14 U	5.7 U
Endrin aldehyde		4.6 U	12 U	5.1 U	26 U	18 U	7.2 U
gamma-BHC (Lindane)		0.91 U	3 U	1.9	1.5	3.5 U	1.4 U
gamma-Chlordane		1.8 U	57	3.1	1.2 U	11	2.9 U
Heptachlor		1.4 U	3.5 U	1.5 U	0.88 U	5.3 U	2.1 U
Heptachlor epoxide		1.8 U	51	2 U	1.2 U	7.1 U	2.9 U
Toxaphene		180 U	110 UJ	250 U	480 U	110 J	290 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-43	RP-CS-44	RP-CS-45	RP-CS-46	RP-CS-47	RP-CS-48
4,4'-DDD (p,p'-DDD)		5.9 U	2.5 U	2.5 U	1.7 U	2.1 U	9 U
4,4'-DDE (p,p'-DDE)		29	35	12	10	57	24
4,4'-DDT (p,p'-DDT)		28	27	12	8.8	170	44
Aldrin		3 U	1.2 U	1.2 U	0.84 U	1.1 U	4.5 U
alpha-BHC		1.5 U	0.62 U	0.61 U	0.43	0.74	2.2 U
alpha-Chlordane		3 U	1.2 U	1.2 U	0.84 U	6.2 U	4.5 U
beta-BHC		3 U	13 U	1.2 U	3.4	9.7	10 U
delta-BHC		3 U	1.2 U	1.2 U	0.84 U	1.1 U	4.5 U
Dieldrin		3.3 J	8.4	3.1 U	6.8	2.3	2.6
Endosulfan II (beta)		5.9 U	2.5 U	2.5 U	1.7 U	2.1 U	1.8 U
Endosulfan Sulfate		7.4 U	3.1 U	3.1 U	2.1 U	2.7 U	2.2 U
Endrin		5.9 U	2.5 U	2.5 U	1.7 U	2.1 U	8
Endrin aldehyde		7.4 U	3.1 U	3.1 U	2.1 U	6.3	5.2
gamma-BHC (Lindane)		1.5 U	7.3 U	0.61 U	0.92 U	0.84	2.2 U
gamma-Chlordane		3 U	1.2 U	1.2 U	0.84 U	2.1	4.5 U
Heptachlor		2.2 U	0.93 U	0.92 U	0.63 U	0.8 U	3.4 U
Heptachlor epoxide		3 U	1.2 U	1.2 U	0.84 U	1.1 U	4.5 U
Toxaphene		300 U	120 U	160 U	84 U	110 U	450 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-49	RP-CS-50	RP-CS-51	RP-CS-52	RP-CS-53	RP-CS-54
4,4'-DDD (p,p'-DDD)		2 U	13 U	5.5 U	6.1 U	2.4 U	2.4 U
4,4'-DDE (p,p'-DDE)		7.8	90	4.5	25	7.3	1.4 J
4,4'-DDT (p,p'-DDT)		6.9	84	6.9 U	11	11	3.5 J
Aldrin		1 U	4.8 U	2.8 U	3.1 U	1.2 U	1.2 U
alpha-BHC		0.5 U	2.4 U	1.4 U	1.5 U	0.6 U	0.59 U
alpha-Chlordane		1 U	9.4 U	2.8 U	3.1 U	1.2 U	27 U
beta-BHC		1 U	4.8 U	2.8 U	3.1 U	1.2 U	1.2 U
delta-BHC		1 U	4.8 U	2.8 U	3.1 U	1.2 U	1.2 U
Dieldrin		1.2	39	2.8 U	5.5	1.4	1.2 U
Endosulfan II (beta)		2 U	9.6 U	5.5 U	6.1 U	2.4 U	2.4 U
Endosulfan Sulfate		2.5 U	12 U	6.9 U	7.7 U	3 U	2.9 U
Endrin		2 U	9.6 U	5.5 U	6.1 U	2.4 U	2.4 U
Endrin aldehyde		2.5 U	17 U	6.9 U	7.7 U	3 U	2.9 U
gamma-BHC (Lindane)		0.5 U	2.4 U	1.4 U	1.5 U	4.5 U	0.59 U
gamma-Chlordane		8.5 U	4.8 U	2.8 U	3.1 U	1.2 U	2.3 U
Heptachlor		0.75 U	3.6 U	2.1 U	2.3 U	0.91 U	0.88 U
Heptachlor epoxide		1 U	4.8 U	2.8 U	3.1 U	1.2 U	1.2 U
Toxaphene		100 U	480 U	280 U	310 U	120 U	120 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-55	RP-CS-56	RP-CS-57	RP-CS-58	RP-CS-59	RP-CS-60
4,4'-DDD (p,p'-DDD)		2.4 U	2.4 U	9.9 U	1.9 U	2 U	21 U
4,4'-DDE (p,p'-DDE)		2.7	4	88	17	6.9	180
4,4'-DDT (p,p'-DDT)		3.9	8.9	72	23	9.5 U	280
Aldrin		1.2 U	1.2 U	0.96 U	0.93 U	1 U	4.8 U
alpha-BHC		0.59 U	0.61 U	0.56	0.47 U	1.4 U	3.3 U
alpha-Chlordane		1.2 U	1.2 U	6.9 U	0.93 U	2.9	8 U
beta-BHC		1.2 U	1.2 U	3.4 U	0.93 U	8.7 U	13 U
delta-BHC		1.2 U	1.2 U	0.96 U	0.93 U	1 U	5.4 U
Dieldrin		1.2 U	1.2 U	36	2.4	3.6 U	100
Endosulfan II (beta)		2.4 U	2.4 U	2.4	1.9 U	2 U	9.7 U
Endosulfan Sulfate		3 U	3 U	2.4 U	2.3 U	2.5 U	12 U
Endrin		2.4 U	2.4 U	5.3	3.4	2 U	18 U
Endrin aldehyde		3 U	3 U	12 U	2.3 U	2.5 U	30 U
gamma-BHC (Lindane)		3.8 U	5.9 U	1.6 U	2.1 U	1.2	4.7
gamma-Chlordane		1.2 U	1.2 U	2.2	0.93 U	1.3	4.8 U
Heptachlor		0.89 U	0.91 U	0.72 U	0.7 U	0.75 U	3.6 U
Heptachlor epoxide		1.2 U	1.2 U	0.96 U	0.93 U	1 U	4.8 U
Toxaphene		120 U	120 U	480 U	93 U	100 U	520 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-61	RP-CS-62	RP-CS-63	RP-CS-64	RP-CS-65	RP-CS-66
4,4'-DDD (p,p'-DDD)		120 J	80	2.3 U	2.5 U	2.3 U	4.6 U
4,4'-DDE (p,p'-DDE)		1100	390	18	28	4.5	11
4,4'-DDT (p,p'-DDT)		950	140	24	25	11	120
Aldrin		7.2 U	7.9 U	1.1 U	1.2 U	1.2 U	1.3 U
alpha-BHC		3.6 U	3.9 U	0.57 U	0.62 U	0.58 U	0.63 U
alpha-Chlordane		7.2 U	7.9 U	1.1 U	1.2 U	1.2 U	1.3 U
beta-BHC		56	7.9 U	5.4 U	13 U	7.5 U	9.7 U
delta-BHC		7.2 U	7.9 U	1.5	1.2 U	1.2 U	2.1 U
Dieldrin		3800	1700	1.5	3.2 U	1.2 U	1.3 U
Endosulfan II (beta)		14 U	16 U	2.3 U	2.5 U	2.3 U	2.5 U
Endosulfan Sulfate		80	20 U	2.8 U	3.1 U	2.9 U	3.2 U
Endrin		110	37	2.3 U	2.5 U	2.3 U	2.5 U
Endrin aldehyde		18 U	20 U	2.8 U	3.1 U	2.9 U	3.2 U
gamma-BHC (Lindane)		3.6 U	3.9 U	1.8 U	0.62 U	0.58 U	5.7 U
gamma-Chlordane		29 U	13	1.1 U	1.2 U	1.2 U	1.3 U
Heptachlor		5.4 U	5.9 U	0.85 U	0.93 U	0.87 U	0.95 U
Heptachlor epoxide		17	10	1.1 U	1.2 U	1.2 U	1.3 U
Toxaphene		5900	2400	110 U	120 U	120 U	130 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-67	RP-CS-68	RP-CS-69	RP-CS-70	RP-CS-71	RP-CS-72
4,4'-DDD (p,p'-DDD)		6.8 U	5.8 U	5.9 U	5.8 U	1.7 U	5.7 U
4,4'-DDE (p,p'-DDE)		10	20	17	2.9 U	2.7	14
4,4'-DDT (p,p'-DDT)		17	27	20	7.2 U	6.4	15
Aldrin		3.4 U	2.9 U	2.9 U	2.9 U	0.85 U	2.9 U
alpha-BHC		1.7 U	1.5 U	1.5 U	1.4 U	3.1 U	1.4 U
alpha-Chlordane		3.4 U	2.9 U	2.9 U	2.9 U	0.85 U	2.9 U
beta-BHC		3.4 U	2.9 U	2.9 U	2.9 U	0.85 U	2.9 U
delta-BHC		3.4 U	2.9 U	2.9 U	2.9 U	0.85 U	2.9 U
Dieldrin		3.4 U	3.3	2.9 U	4	0.85 U	2.9 U
Endosulfan II (beta)		6.8 U	5.8 U	5.9 U	5.8 U	1.7 U	5.7 U
Endosulfan Sulfate		8.4 U	7.3 U	7.4 U	7.2 U	2.1 U	7.2 U
Endrin		6.8 U	5.8 U	5.9 U	5.8 U	1.7 U	5.7 U
Endrin aldehyde		8.4 U	7.3 U	7.4 U	7.2 U	2.1 U	7.2 U
gamma-BHC (Lindane)		4.2 U	1.5 U	1.5 U	1.4 U	2.3 U	1.4 U
gamma-Chlordane		3.4 U	2.9 U	2.9 U	2.9 U	0.85 U	2.9 U
Heptachlor		2.5 U	2.2 U	2.2 U	2.2 U	0.64 U	2.2 U
Heptachlor epoxide		3.4 U	2.9 U	2.9 U	2.9 U	0.85 U	2.9 U
Toxaphene		340 U	290 U	290 U	290 U	85 U	290 U

Notes:

Residential Samples within 200 feet of structures

HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.

BOLD Bold values represent concentrations over the RSL

U - The analyte was not detected at or above the reporting limit.

J - The identification of the analyte is acceptable; the reported value is an estimate.

NL - No RSL level available

RSL - Region 4 Regional Screening Level for direct contact with residential soil

ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-73	RP-CS-74	RP-CS-75	RP-CS-76	RP-CS-77	RP-CS-78
						Dupe of CS-01	Dupe of CS-10
4,4'-DDD (p,p'-DDD)		7.3	6.3 U	14 U	6.3 U	34	5.6 U
4,4'-DDE (p,p'-DDE)		63	3.2 U	87	7.6	22	19
4,4'-DDT (p,p'-DDT)		51	7.9 U	95	21	34	12
Aldrin		3.2 U	3.2 U	7.2 U	3.1 U	1 U	2.8 U
alpha-BHC		1.6 U	1.6 U	3.6 U	1.6 U	0.51 U	1.4 U
alpha-Chlordane		3.2 U	3.2 U	7.2 U	3.1 U	25 J	2.8 U
beta-BHC		3.2 U	3.2 U	7.2 U	3.1 U	1 U	2.8 U
delta-BHC		14	3.2 U	7.2 U	3.1 U	1 U	2.8 U
Dieldrin		14	3.2 U	210	3.1 U	23	8.6
Endosulfan II (beta)		6.3 U	6.3 U	14 U	6.3 U	2 U	5.6 U
Endosulfan Sulfate		7.9 U	7.9 U	18 U	7.8 U	2.5 U	6.9 U
Endrin		6.3 U	6.3 U	14 U	6.3 U	10 U	5.6 U
Endrin aldehyde		7.9 U	7.9 U	18 U	7.8 U	2.5 U	6.9 U
gamma-BHC (Lindane)		1.6 U	1.6 U	3.6 U	1.6 U	1.3 U	1.4 U
gamma-Chlordane		3.2 U	3.2 U	7.2 U	3.1 U	27	2.8 U
Heptachlor		2.4 U	2.4 U	5.4 U	2.3 U	2.1 U	2.1 U
Heptachlor epoxide		3.2 U	3.2 U	7.2 U	3.1 U	3.6 U	2.8 U
Toxaphene		320 U	320 U	430 J	310 U	100 U	280 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

TABLE 2
AIR DEPOSITION STUDY
SUMMARY OF ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
RED PANTHER

Pesticides (ug/kg)	Region 4 RSL (Residential)	RP-CS-79	RP-CS-80	RP-CS-81	RP-CS-82	RP-CS-83	RP-CS-84
		Dupe of CS-20	Dupe of CS-30	Dupe of CS-40	Dupe of CS-50	Dupe of CS-60	Dupe of CS-70
4,4'-DDD (p,p'-DDD)		6 U	2 U	2.4 U	1.9 U	16 U	5.8 U
4,4'-DDE (p,p'-DDE)		4.8	11	48	3.6	150	2.9 U
4,4'-DDT (p,p'-DDT)		9.2	11	58	5.3	200	7.3 U
Aldrin		3 U	0.97 U	1.2 U	0.97 U	4.8 U	2.9 U
alpha-BHC		1.5 U	0.9 U	0.59 U	0.48 U	3.1 U	1.5 U
alpha-Chlordane		3 U	5.5 U	1.2 U	0.97 U	6.5 U	2.9 U
beta-BHC		3 U	2.6 U	1.2 U	0.97 U	8 U	2.9 U
delta-BHC		3 U	3.5 U	1.4	0.97 U	4.8 U	2.9 U
Dieldrin		5 U	2.6 U	8.3	4.6	80	3.8
Endosulfan II (beta)		6 U	1.9 U	2.6	1.9 U	9.7 U	5.8 U
Endosulfan Sulfate		7.6 U	2.4 U	2.9 U	2.4 U	12 U	7.3 U
Endrin		6 U	7.3 U	16 U	1.9 U	15 U	5.8 U
Endrin aldehyde		7.6 U	2.4 U	24 U	2.4 U	24 U	7.3 U
gamma-BHC (Lindane)		1.5 U	2.5 U	17 U	2.2 U	3.4	1.5 U
gamma-Chlordane		3 U	1.7	1.2 U	0.97 U	4.8 U	2.9 U
Heptachlor		2.3 U	1.7 U	0.88 U	0.72 U	3.6 U	2.2 U
Heptachlor epoxide		3 U	0.97 U	1.2 U	0.97 U	4.8 U	2.9 U
Toxaphene		110 UJ	200 U	440 U	97 U	480 U	290 U

Notes:

- Residential Samples within 200 feet of structures
- HRS Elevated compared to all 3 Bkg samples and Bkg duplicate sample CS-77.
- BOLD** Bold values represent concentrations over the RSL
- U - The analyte was not detected at or above the reporting limit.
- J - The identification of the analyte is acceptable; the reported value is an estimate.
- NL - No RSL level available
- RSL - Region 4 Regional Screening Level for direct contact with residential soil
- ug/kg - Micrograms per kilogram

APPENDIX C
PHOTOGRAPHIC LOG



Official Photograph No. 1

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Grid at Sample location

Official Photograph No. 2

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample Location

Official Photograph No. 3

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 4

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 5

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 7

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Greg Kowalski, START
Subject: Sample location

Date: June 29, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 8

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Greg Kowalski, START
Subject: Sample location

Date: June 29, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 9

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 10

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 11

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 12

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 13

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 14

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location

Official Photograph No. 15

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location

Official Photograph No. 16

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location

Official Photograph No. 17

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location



Official Photograph No. 18

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-16.



Official Photograph No. 19

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-28.



Official Photograph No. 20

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-36.



Official Photograph No. 21

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-46.

Official Photograph No. 22

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location

Official Photograph No. 23

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location

Official Photograph No. 24

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location

Official Photograph No. 25

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Ryan Stubbs, START
Subject: Sample location

Date: June 29, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 26

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Ryan Stubbs, START
Subject: Sample location

Date: June 29, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 27

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location



Official Photograph No. 28

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-60.



Official Photograph No. 29

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-08.



Official Photograph No. 30

Site Name: Red Panther Chemical **Date:** June 29, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-20.



Official Photograph No. 31

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-55.



Official Photograph No. 32

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-67.



Official Photograph No. 33

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-65.

Date: June 30, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 34

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Ryan Stubbs, START
Subject: Sample location

Date: June 30, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 35

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Ryan Stubbs, START
Subject: Sample location

Date: June 30, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 36

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Ryan Stubbs, START
Subject: Sample location

Date: June 30, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 37

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Grid at Sample location

Official Photograph No. 38

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Doug Fraley, START
Subject: Sample Location

Official Photograph No. 39

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Doug Fraley, START
Subject: Sample location

Official Photograph No. 40

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Doug Fraley, START
Subject: Sample location

Official Photograph No. 41

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Doug Fraley, START
Subject: Sample location

Date: June 30, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 42

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Doug Fraley, START
Subject: Sample location

Date: June 30, 2010
TDD No: TNA-05-003-0004



Official Photograph No. 43

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Doug Fraley, START
Subject: Sample location RP-CS-63.

Date: June 30, 2010
TDD No: TNA-05-003-0004



Official Photograph No. 44

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Doug Fraley, START
Subject: Sample location RP-CS-21.

Date: June 30, 2010
TDD No: TNA-05-003-0004



Official Photograph No. 45

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-54.



Official Photograph No. 46

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-56.



Official Photograph No. 47

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-66.

Official Photograph No. 48

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample locatior



Official Photograph No. 49

Site Name:	Red Panther Chemical	Date:	June 30, 2010
Location:	Clarksdale, Coahoma County, Mississippi	TDD No:	TNA-05-003-0004
Photographer:	Stacey DeLaReintrie, START		
Subject:	Sample location RP_CS_34		

Official Photograph No. 50

Site Name:	Red Panther Chemical	Date:	June 30, 2010
Location:	Clarksdale, Coahoma County, Mississippi	TDD No:	TNA-05-003-0004
Photographer:	Stacey DeLaReintrie, START		
Subject:	Sample location		



Official Photograph No. 51

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-14.



Official Photograph No. 52

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-53.



Official Photograph No. 53

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-64.



Official Photograph No. 54

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-76.

Official Photograph No. 55

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location



Official Photograph No. 56

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-22.



Official Photograph No. 57

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-10.



Official Photograph No. 58

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-42.



Official Photograph No. 59

Site Name: Red Panther Chemical **Date:** June 30, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Stacey DeLaReintrie, START
Subject: Sample location RP-CS-24.



Official Photograph No. 60

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Doug Fraley, START
Subject: Sample location RP-CS-61.

Official Photograph No. 61

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Doug Fraley, START
Subject: Sample location

Date: July 1, 2010
TDD No: TNA-05-003-0004

Official Photograph No. 62

Site Name: Red Panther Chemical
Location: Clarksdale, Coahoma County, Mississippi
Photographer: Greg Kowalski, START
Subject: Sample location

Date: July 1, 2010
TDD No: TNA-05-003-0004



Official Photograph No. 63

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-51.



Official Photograph No. 64

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-41.



Official Photograph No. 65

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-68.



Official Photograph No. 66

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Greg Kowalski, START
Subject: Sample location RP-CS-72.



Official Photograph No. 67

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-09.



Official Photograph No. 68

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-23.



Official Photograph No. 69

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-43.



Official Photograph No. 70

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-52.



Official Photograph No. 71

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-62.



Official Photograph No. 72

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-74.



Official Photograph No. 73

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-73.



Official Photograph No. 74

Site Name: Red Panther Chemical **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-75.



Official Photograph No. 75

Site Name: Red Panther Chemical Company **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-70.



Official Photograph No. 76

Site Name: Red Panther Chemical Company **Date:** July 1, 2010
Location: Clarksdale, Coahoma County, Mississippi **TDD No:** TNA-05-003-0004
Photographer: Ryan Stubbs, START
Subject: Sample location RP-CS-69.

APPENDIX D

ANALYTICAL CASE NARRATIVE



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

August 27, 2010

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
 Project: 10-0494, Red Panther Chemical Co
 Superfund Remedial

FROM: Sallie Hale
 ASB Organic Chemistry Section Chief

THRU: Gary Bennett, Chief
 Analytical Support Branch

TO: Ralph Howard

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Organochlorine Pesticides (OCP)

Organochlorine pesticides

EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Report Narrative for Project: 10-0494

08/24/10 Pesticides JW: Rereporting pesticide analysis on 08/24/10. High contamination in samples warranted reextract of E102705-05, -20; E102706-02, -03, -09; E102707-03, -06, -08, -22. The reextracts were reported and an H-7 and J were added to the samples.

08/27/10 SJH Pesticides: Rereporting samples due to Element error. Duplicate row reported for E102705-17 gamma-BHC (Lindane). Correct nondetect reported.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

SAMPLES INCLUDED IN THIS REPORT

Project: 10-0494, Red Panther Chemical Co

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
RP-RB-01	E102705-01	Rinse Water Blank	6/29/10 13:20	6/30/10 9:50
RP-CS-01	E102705-02	Surface Soil	6/29/10 16:20	6/30/10 9:50
RP-CS-77	E102705-03	Surface Soil	6/29/10 16:25	6/30/10 9:50
RP-CS-04	E102705-04	Surface Soil	6/29/10 08:45	6/30/10 9:50
RP-CS-05	E102705-05	Surface Soil	6/29/10 08:45	6/30/10 9:50
RP-CS-06	E102705-06	Surface Soil	6/29/10 09:15	6/30/10 9:50
RP-CS-07	E102705-07	Surface Soil	6/29/10 09:10	6/30/10 9:50
RP-CS-16	E102705-08	Surface Soil	6/29/10 10:05	6/30/10 9:50
RP-CS-17	E102705-09	Surface Soil	6/29/10 10:30	6/30/10 9:50
RP-CS-18	E102705-10	Surface Soil	6/29/10 09:40	6/30/10 9:50
RP-CS-19	E102705-11	Surface Soil	6/22/10 10:10	6/30/10 9:50
RP-CS-28	E102705-12	Surface Soil	6/29/10 10:40	6/30/10 9:50
RP-CS-29	E102705-13	Surface Soil	6/29/10 11:05	6/30/10 9:50
RP-CS-30	E102705-14	Surface Soil	6/29/10 14:20	6/30/10 9:50
RP-CS-80	E102705-15	Surface Soil	6/29/10 14:25	6/30/10 9:50
RP-CS-31	E102705-16	Surface Soil	6/29/10 11:30	6/30/10 9:50
RP-CS-32	E102705-17	Surface Soil	6/29/10 14:00	6/30/10 9:50
RP-CS-36	E102705-18	Surface Soil	6/29/10 11:05	6/30/10 9:50
RP-CS-37	E102705-19	Surface Soil	6/29/10 12:20	6/30/10 9:50
RP-CS-38	E102705-20	Surface Soil	6/29/10 12:18	6/30/10 9:50
RP-CS-39	E102705-21	Surface Soil	6/29/10 12:00	6/30/10 9:50
RP-CS-46	E102705-22	Surface Soil	6/29/10 11:26	6/30/10 9:50
RP-CS-47	E102705-23	Surface Soil	6/29/10 13:50	6/30/10 9:50
RP-CS-48	E102705-24	Surface Soil	6/29/10 11:50	6/30/10 9:50
RP-CS-49	E102705-25	Surface Soil	6/29/10 14:25	6/30/10 9:50
RP-CS-50	E102705-26	Surface Soil	6/29/10 15:00	6/30/10 9:50
RP-CS-82	E102705-27	Surface Soil	6/29/10 15:05	6/30/10 9:50
RP-CS-57	E102705-28	Surface Soil	6/29/10 15:10	6/30/10 9:50
RP-CS-58	E102705-29	Surface Soil	6/29/10 15:30	6/30/10 9:50
RP-CS-59	E102705-30	Surface Soil	6/29/10 15:35	6/30/10 9:50
RP-CS-60	E102705-31	Surface Soil	6/29/10 16:00	6/30/10 9:50
RP-CS-83	E102705-32	Surface Soil	6/29/10 16:05	6/30/10 9:50
RP-CS-71	E102705-33	Surface Soil	6/29/10 07:50	6/30/10 9:50
RP-RB-02	E102706-01	Rinse Water Blank	6/30/10 12:40	7/1/10 10:30



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

RP-CS-08	E102706-02	Surface Soil	6/29/10 16:45	7/1/10 10:30
RP-CS-11	E102706-03	Surface Soil	6/30/10 15:00	7/1/10 10:30
RP-CS-12	E102706-04	Surface Soil	6/30/10 11:45	7/1/10 10:30
RP-CS-13	E102706-05	Surface Soil	6/30/10 11:05	7/1/10 10:30
RP-CS-14	E102706-06	Surface Soil	6/30/10 11:45	7/1/10 10:30
RP-CS-15	E102706-07	Surface Soil	6/30/10 14:30	7/1/10 10:30
RP-CS-20	E102706-08	Surface Soil	6/29/10 17:00	7/1/10 10:30
RP-CS-79	E102706-09	Surface Soil	6/29/10 17:05	7/1/10 10:30
RP-CS-21	E102706-10	Surface Soil	6/30/10 16:10	7/1/10 10:30
RP-CS-22	E102706-11	Surface Soil	6/30/10 15:45	7/1/10 10:30
RP-CS-25	E102706-12	Surface Soil	6/30/10 10:30	7/1/10 10:30
RP-CS-26	E102706-13	Surface Soil	6/30/10 11:15	7/1/10 10:30
RP-CS-27	E102706-14	Surface Soil	6/30/10 14:05	7/1/10 10:30
RP-CS-33	E102706-15	Surface Soil	6/30/10 10:00	7/1/10 10:30
RP-CS-34	E102706-16	Surface Soil	6/30/10 10:30	7/1/10 10:30
RP-CS-35	E102706-17	Surface Soil	6/30/10 13:45	7/1/10 10:30
RP-CS-40	E102706-18	Surface Soil	6/30/10 15:10	7/1/10 10:30
RP-CS-81	E102706-19	Surface Soil	6/30/10 15:15	7/1/10 10:30
RP-CS-44	E102706-20	Surface Soil	6/30/10 10:00	7/1/10 10:30
RP-CS-45	E102706-21	Surface Soil	6/30/10 13:20	7/1/10 10:30
RP-CS-53	E102706-22	Surface Soil	6/30/10 13:50	7/1/10 10:30
RP-CS-54	E102706-23	Surface Soil	6/30/10 08:15	7/1/10 10:30
RP-CS-55	E102706-24	Surface Soil	6/30/10 08:15	7/1/10 10:30
RP-CS-56	E102706-25	Surface Soil	6/30/10 08:45	7/1/10 10:30
RP-CS-63	E102706-26	Surface Soil	6/30/10 15:30	7/1/10 10:30
RP-CS-64	E102706-27	Surface Soil	6/30/10 14:15	7/1/10 10:30
RP-CS-65	E102706-28	Surface Soil	6/30/10 09:00	7/1/10 10:30
RP-CS-66	E102706-29	Surface Soil	6/30/10 09:10	7/1/10 10:30
RP-CS-67	E102706-30	Surface Soil	6/30/10 08:30	7/1/10 10:30
RP-CS-76	E102706-31	Surface Soil	6/30/10 14:35	7/1/10 10:30
RP-CS-02	E102707-01	Surface Soil	7/1/10 09:40	7/2/10 10:30
RP-CS-03	E102707-02	Surface Soil	7/1/10 09:10	7/2/10 10:30
RP-CS-09	E102707-03	Surface Soil	7/1/10 08:10	7/2/10 10:30
RP-CS-10	E102707-04	Surface Soil	6/30/10 16:35	7/2/10 10:30
RP-CS-78	E102707-05	Surface Soil	6/30/10 16:40	7/2/10 10:30
RP-CS-23	E102707-06	Surface Soil	7/1/10 08:40	7/2/10 10:30
RP-CS-24	E102707-07	Surface Soil	6/30/10 17:40	7/2/10 10:30
RP-CS-41	E102707-08	Surface Soil	7/1/10 11:00	7/2/10 10:30
RP-CS-42	E102707-09	Surface Soil	6/30/10 17:00	7/2/10 10:30
RP-CS-43	E102707-10	Surface Soil	7/1/10 09:00	7/2/10 10:30



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

RP-CS-51	E102707-11	Surface Soil	7/1/10 10:20	7/2/10 10:30
RP-CS-52	E102707-12	Surface Soil	7/1/10 09:20	7/2/10 10:30
RP-CS-61	E102707-13	Surface Soil	7/1/10 08:20	7/2/10 10:30
RP-CS-62	E102707-14	Surface Soil	7/1/10 09:40	7/2/10 10:30
RP-CS-68	E102707-15	Surface Soil	7/1/10 12:45	7/2/10 10:30
RP-CS-69	E102707-16	Surface Soil	7/1/10 13:30	7/2/10 10:30
RP-CS-70	E102707-17	Surface Soil	7/1/10 13:05	7/2/10 10:30
RP-CS-84	E102707-18	Surface Soil	7/1/10 13:10	7/2/10 10:30
RP-CS-72	E102707-19	Surface Soil	7/1/10 13:20	7/2/10 10:30
RP-CS-73	E102707-20	Surface Soil	7/1/10 10:35	7/2/10 10:30
RP-CS-74	E102707-21	Surface Soil	7/1/10 10:15	7/2/10 10:30
RP-CS-75	E102707-22	Surface Soil	7/1/10 12:35	7/2/10 10:30



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: 10-0494
Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
D-4	MRL elevated due to interferences.
H-7	Recommended preparation holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.
O-4	Greater than 40 % difference between primary and confirmatory GC columns
OC-2	Analyte concentration high in continuing calibration verification standard
OL-1	Laboratory Control Spike Recovery less than method control limits
QM-3	Matrix Spike Precision outside method control limits

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 - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
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.



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-RB-01**

Lab ID: **E102705-01**

Station ID:

Matrix: Rinse Water Blank

Date Collected: 6/29/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.040	U	ug/L	0.040	7/06/10 11:03	7/09/10 13:29	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.050	U	ug/L	0.050	7/06/10 11:03	7/09/10 13:29	EPA 8081
309-00-2	Aldrin	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
319-84-6	alpha-BHC	0.010	U	ug/L	0.010	7/06/10 11:03	7/09/10 13:29	EPA 8081
5103-71-9	alpha-Chlordane	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
319-85-7	beta-BHC	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
319-86-8	delta-BHC	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
60-57-1	Dieldrin	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
959-98-8	Endosulfan I (alpha)	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
33213-65-9	Endosulfan II (beta)	0.040	U	ug/L	0.040	7/06/10 11:03	7/09/10 13:29	EPA 8081
1031-07-8	Endosulfan Sulfate	0.050	U	ug/L	0.050	7/06/10 11:03	7/09/10 13:29	EPA 8081
72-20-8	Endrin	0.040	U	ug/L	0.040	7/06/10 11:03	7/09/10 13:29	EPA 8081
7421-93-4	Endrin aldehyde	0.050	U	ug/L	0.050	7/06/10 11:03	7/09/10 13:29	EPA 8081
53494-70-5	Endrin ketone	0.050	U	ug/L	0.050	7/06/10 11:03	7/09/10 13:29	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.010	U	ug/L	0.010	7/06/10 11:03	7/09/10 13:29	EPA 8081
5566-34-7	gamma-Chlordane	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
76-44-8	Heptachlor	0.015	U	ug/L	0.015	7/06/10 11:03	7/09/10 13:29	EPA 8081
1024-57-3	Heptachlor epoxide	0.020	U	ug/L	0.020	7/06/10 11:03	7/09/10 13:29	EPA 8081
72-43-5	Methoxychlor	0.10	U	ug/L	0.10	7/06/10 11:03	7/09/10 13:29	EPA 8081
8001-35-2	Toxaphene	2.0	U	ug/L	2.0	7/06/10 11:03	7/09/10 13:29	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-01

Lab ID: E102705-02

Station ID: RPAD01

Matrix: Surface Soil

Date Collected: 6/29/10 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	10	U, D-4	ug/kg dry	10	7/02/10 13:20	7/15/10 1:47	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	20		ug/kg dry	5.1	7/02/10 13:20	7/15/10 1:47	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	30		ug/kg dry	13	7/02/10 13:20	7/15/10 1:47	EPA 8081
309-00-2	Aldrin	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/19/10 23:22	EPA 8081
319-84-6	alpha-BHC	0.51	U	ug/kg dry	0.51	7/02/10 13:20	7/19/10 23:22	EPA 8081
5103-71-9	alpha-Chlordane	21	J, Q-4	ug/kg dry	5.1	7/02/10 13:20	7/15/10 1:47	EPA 8081
319-85-7	beta-BHC	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/19/10 23:22	EPA 8081
319-86-8	delta-BHC	2.7	U, D-4	ug/kg dry	2.7	7/02/10 13:20	7/19/10 23:22	EPA 8081
60-57-1	Dieldrin	21		ug/kg dry	5.1	7/02/10 13:20	7/15/10 1:47	EPA 8081
959-98-8	Endosulfan I (alpha)	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/19/10 23:22	EPA 8081
33213-65-9	Endosulfan II (beta)	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/19/10 23:22	EPA 8081
1031-07-8	Endosulfan Sulfate	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/19/10 23:22	EPA 8081
72-20-8	Endrin	29	U, D-4	ug/kg dry	29	7/02/10 13:20	7/19/10 23:22	EPA 8081
7421-93-4	Endrin aldehyde	4.4	U, D-4	ug/kg dry	4.4	7/02/10 13:20	7/19/10 23:22	EPA 8081
53494-70-5	Endrin ketone	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/19/10 23:22	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.7	U, D-4	ug/kg dry	1.7	7/02/10 13:20	7/19/10 23:22	EPA 8081
5566-34-7	gamma-Chlordane	21		ug/kg dry	5.1	7/02/10 13:20	7/15/10 1:47	EPA 8081
76-44-8	Heptachlor	2.4		ug/kg dry	0.76	7/02/10 13:20	7/19/10 23:22	EPA 8081
1024-57-3	Heptachlor epoxide	2.7	U, D-4	ug/kg dry	2.7	7/02/10 13:20	7/19/10 23:22	EPA 8081
72-43-5	Methoxychlor	5.1	U	ug/kg dry	5.1	7/02/10 13:20	7/19/10 23:22	EPA 8081
8001-35-2	Toxaphene	350	U, D-4	ug/kg dry	350	7/02/10 13:20	7/19/10 23:22	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-77

Lab ID: E102705-03

Station ID: RPAD01

Matrix: Surface Soil

Date Collected: 6/29/10 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	34		ug/kg dry	10	7/02/10 13:20	7/15/10 2:05	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	22		ug/kg dry	5.1	7/02/10 13:20	7/15/10 2:05	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	34		ug/kg dry	13	7/02/10 13:20	7/15/10 2:05	EPA 8081
309-00-2	Aldrin	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/28/10 15:30	EPA 8081
319-84-6	alpha-BHC	0.51	U	ug/kg dry	0.51	7/02/10 13:20	7/28/10 15:30	EPA 8081
5103-71-9	alpha-Chlordane	25	J, Q-4	ug/kg dry	5.1	7/02/10 13:20	7/15/10 2:05	EPA 8081
319-85-7	beta-BHC	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/28/10 15:30	EPA 8081
319-86-8	delta-BHC	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/28/10 15:30	EPA 8081
60-57-1	Dieldrin	23		ug/kg dry	5.1	7/02/10 13:20	7/15/10 2:05	EPA 8081
959-98-8	Endosulfan I (alpha)	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/28/10 15:30	EPA 8081
33213-65-9	Endosulfan II (beta)	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/28/10 15:30	EPA 8081
1031-07-8	Endosulfan Sulfate	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/28/10 15:30	EPA 8081
72-20-8	Endrin	10	U, D-4	ug/kg dry	10	7/02/10 13:20	7/15/10 2:05	EPA 8081
7421-93-4	Endrin aldehyde	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/28/10 15:30	EPA 8081
53494-70-5	Endrin ketone	18	U, D-4	ug/kg dry	18	7/02/10 13:20	7/28/10 15:30	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.3	U, D-4	ug/kg dry	1.3	7/02/10 13:20	7/28/10 15:30	EPA 8081
5566-34-7	gamma-Chlordane	27		ug/kg dry	5.1	7/02/10 13:20	7/15/10 2:05	EPA 8081
76-44-8	Heptachlor	2.1	U, D-4	ug/kg dry	2.1	7/02/10 13:20	7/28/10 15:30	EPA 8081
1024-57-3	Heptachlor epoxide	3.6	U, D-4	ug/kg dry	3.6	7/02/10 13:20	7/28/10 15:30	EPA 8081
72-43-5	Methoxychlor	5.1	U	ug/kg dry	5.1	7/02/10 13:20	7/28/10 15:30	EPA 8081
8001-35-2	Toxaphene	100	U, D-4	ug/kg dry	100	7/02/10 13:20	7/28/10 15:30	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-04

Lab ID: E102705-04

Station ID: RPAD04

Matrix: Surface Soil

Date Collected: 6/29/10 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	4.4	U, D-4	ug/kg dry	4.4	7/02/10 13:20	7/20/10 0:19	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	38		ug/kg dry	4.8	7/02/10 13:20	7/15/10 2:24	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	73		ug/kg dry	12	7/02/10 13:20	7/15/10 2:24	EPA 8081
309-00-2	Aldrin	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
319-84-6	alpha-BHC	0.48	U	ug/kg dry	0.48	7/02/10 13:20	7/20/10 0:19	EPA 8081
5103-71-9	alpha-Chlordane	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
319-85-7	beta-BHC	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
319-86-8	delta-BHC	2.3	U, D-4	ug/kg dry	2.3	7/02/10 13:20	7/20/10 0:19	EPA 8081
60-57-1	Dieldrin	2.9		ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
959-98-8	Endosulfan I (alpha)	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
33213-65-9	Endosulfan II (beta)	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/20/10 0:19	EPA 8081
1031-07-8	Endosulfan Sulfate	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/20/10 0:19	EPA 8081
72-20-8	Endrin	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/20/10 0:19	EPA 8081
7421-93-4	Endrin aldehyde	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/20/10 0:19	EPA 8081
53494-70-5	Endrin ketone	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/20/10 0:19	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.3	U, D-4	ug/kg dry	1.3	7/02/10 13:20	7/20/10 0:19	EPA 8081
5566-34-7	gamma-Chlordane	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
76-44-8	Heptachlor	0.72	U	ug/kg dry	0.72	7/02/10 13:20	7/20/10 0:19	EPA 8081
1024-57-3	Heptachlor epoxide	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/20/10 0:19	EPA 8081
72-43-5	Methoxychlor	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/20/10 0:19	EPA 8081
8001-35-2	Toxaphene	95	U	ug/kg dry	95	7/02/10 13:20	7/20/10 0:19	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-05

Lab ID: E102705-05

Station ID: RPAD05

Matrix: Surface Soil

Date Collected: 6/29/10 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	220		ug/kg dry	95	7/02/10 13:20	7/19/10 16:47	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	220		ug/kg dry	48	7/02/10 13:20	7/19/10 16:47	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	310		ug/kg dry	120	7/02/10 13:20	7/19/10 16:47	EPA 8081
309-00-2	Aldrin	12		ug/kg dry	4.8	7/02/10 13:20	7/15/10 2:42	EPA 8081
319-84-6	alpha-BHC	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/15/10 2:42	EPA 8081
5103-71-9	alpha-Chlordane	300	J, Q-4	ug/kg dry	48	7/02/10 13:20	7/19/10 16:47	EPA 8081
319-85-7	beta-BHC	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/15/10 2:42	EPA 8081
319-86-8	delta-BHC	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/15/10 2:42	EPA 8081
60-57-1	Dieldrin	230		ug/kg dry	48	7/02/10 13:20	7/19/10 16:47	EPA 8081
959-98-8	Endosulfan I (alpha)	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/15/10 2:42	EPA 8081
33213-65-9	Endosulfan II (beta)	9.5	U	ug/kg dry	9.5	7/02/10 13:20	7/15/10 2:42	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 2:42	EPA 8081
72-20-8	Endrin	95	U, D-4	ug/kg dry	95	7/02/10 13:20	7/19/10 16:47	EPA 8081
7421-93-4	Endrin aldehyde	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 2:42	EPA 8081
53494-70-5	Endrin ketone	12	U, J, QM-3	ug/kg dry	12	7/02/10 13:20	7/15/10 2:42	EPA 8081
58-89-9	gamma-BHC (Lindane)	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/15/10 2:42	EPA 8081
5566-34-7	gamma-Chlordane	530		ug/kg dry	48	7/02/10 13:20	7/19/10 16:47	EPA 8081
76-44-8	Heptachlor	210		ug/kg dry	36	7/02/10 13:20	7/19/10 16:47	EPA 8081
1024-57-3	Heptachlor epoxide	290		ug/kg dry	48	7/02/10 13:20	7/19/10 16:47	EPA 8081
72-43-5	Methoxychlor	24	U	ug/kg dry	24	7/02/10 13:20	7/15/10 2:42	EPA 8081
8001-35-2	Toxaphene	210	U, J, D-4, H-7	ug/kg dry	210	8/12/10 9:00	8/20/10 18:12	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-06**

Lab ID: **E102705-06**

Station ID: **RPAD06**

Matrix: Surface Soil

Date Collected: 6/29/10 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	8.9	U	ug/kg dry	8.9	7/02/10 13:20	7/15/10 3:01	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	27		ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	48		ug/kg dry	11	7/02/10 13:20	7/15/10 3:01	EPA 8081
309-00-2	Aldrin	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
319-84-6	alpha-BHC	2.2	U	ug/kg dry	2.2	7/02/10 13:20	7/15/10 3:01	EPA 8081
5103-71-9	alpha-Chlordane	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
319-85-7	beta-BHC	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
319-86-8	delta-BHC	5.9		ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
60-57-1	Dieldrin	160		ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
959-98-8	Endosulfan I (alpha)	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
33213-65-9	Endosulfan II (beta)	8.9	U	ug/kg dry	8.9	7/02/10 13:20	7/15/10 3:01	EPA 8081
1031-07-8	Endosulfan Sulfate	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 3:01	EPA 8081
72-20-8	Endrin	8.9	U	ug/kg dry	8.9	7/02/10 13:20	7/15/10 3:01	EPA 8081
7421-93-4	Endrin aldehyde	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 3:01	EPA 8081
53494-70-5	Endrin ketone	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 3:01	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.2	U	ug/kg dry	2.2	7/02/10 13:20	7/15/10 3:01	EPA 8081
5566-34-7	gamma-Chlordane	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
76-44-8	Heptachlor	3.3	U	ug/kg dry	3.3	7/02/10 13:20	7/15/10 3:01	EPA 8081
1024-57-3	Heptachlor epoxide	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/15/10 3:01	EPA 8081
72-43-5	Methoxychlor	22	U	ug/kg dry	22	7/02/10 13:20	7/15/10 3:01	EPA 8081
8001-35-2	Toxaphene	450	U	ug/kg dry	450	7/02/10 13:20	7/15/10 3:01	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-07

Lab ID: E102705-07

Station ID: RPAD07

Matrix: Surface Soil

Date Collected: 6/29/10 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.1	U	ug/kg dry	9.1	7/02/10 13:20	7/15/10 4:53	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	65		ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	79		ug/kg dry	11	7/02/10 13:20	7/15/10 4:53	EPA 8081
309-00-2	Aldrin	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
319-84-6	alpha-BHC	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/15/10 4:53	EPA 8081
5103-71-9	alpha-Chlordane	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
319-85-7	beta-BHC	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
319-86-8	delta-BHC	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
60-57-1	Dieldrin	9.1		ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
959-98-8	Endosulfan I (alpha)	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
33213-65-9	Endosulfan II (beta)	9.3	U	ug/kg dry	9.3	7/02/10 13:20	7/15/10 4:53	EPA 8081
1031-07-8	Endosulfan Sulfate	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 4:53	EPA 8081
72-20-8	Endrin	9.1	U	ug/kg dry	9.1	7/02/10 13:20	7/15/10 4:53	EPA 8081
7421-93-4	Endrin aldehyde	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 4:53	EPA 8081
53494-70-5	Endrin ketone	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 4:53	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/15/10 4:53	EPA 8081
5566-34-7	gamma-Chlordane	5.8		ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
76-44-8	Heptachlor	3.4	U	ug/kg dry	3.4	7/02/10 13:20	7/15/10 4:53	EPA 8081
1024-57-3	Heptachlor epoxide	6.0		ug/kg dry	4.6	7/02/10 13:20	7/15/10 4:53	EPA 8081
72-43-5	Methoxychlor	23	U	ug/kg dry	23	7/02/10 13:20	7/15/10 4:53	EPA 8081
8001-35-2	Toxaphene	460	U	ug/kg dry	460	7/02/10 13:20	7/15/10 4:53	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-16**

Lab ID: **E102705-08**

Station ID: **RPAD16**

Matrix: Surface Soil

Date Collected: 6/29/10 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	1.7	U	ug/kg dry	1.7	7/02/10 13:20	7/20/10 1:17	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	14		ug/kg dry	4.2	7/02/10 13:20	7/15/10 5:11	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	18		ug/kg dry	11	7/02/10 13:20	7/15/10 5:11	EPA 8081
309-00-2	Aldrin	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 1:17	EPA 8081
319-84-6	alpha-BHC	0.42	U	ug/kg dry	0.42	7/02/10 13:20	7/20/10 1:17	EPA 8081
5103-71-9	alpha-Chlordane	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 1:17	EPA 8081
319-85-7	beta-BHC	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 1:17	EPA 8081
319-86-8	delta-BHC	1.9	U, D-4	ug/kg dry	1.9	7/02/10 13:20	7/20/10 1:17	EPA 8081
60-57-1	Dieldrin	6.1		ug/kg dry	4.2	7/02/10 13:20	7/15/10 5:11	EPA 8081
959-98-8	Endosulfan I (alpha)	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 1:17	EPA 8081
33213-65-9	Endosulfan II (beta)	1.7	U	ug/kg dry	1.7	7/02/10 13:20	7/20/10 1:17	EPA 8081
1031-07-8	Endosulfan Sulfate	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/20/10 1:17	EPA 8081
72-20-8	Endrin	1.7	U	ug/kg dry	1.7	7/02/10 13:20	7/20/10 1:17	EPA 8081
7421-93-4	Endrin aldehyde	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/20/10 1:17	EPA 8081
53494-70-5	Endrin ketone	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/20/10 1:17	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.8	U, D-4	ug/kg dry	1.8	7/02/10 13:20	7/20/10 1:17	EPA 8081
5566-34-7	gamma-Chlordane	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 1:17	EPA 8081
76-44-8	Heptachlor	0.63	U	ug/kg dry	0.63	7/02/10 13:20	7/20/10 1:17	EPA 8081
1024-57-3	Heptachlor epoxide	1.0		ug/kg dry	0.84	7/02/10 13:20	7/20/10 1:17	EPA 8081
72-43-5	Methoxychlor	4.2	U	ug/kg dry	4.2	7/02/10 13:20	7/20/10 1:17	EPA 8081
8001-35-2	Toxaphene	190	U, D-4	ug/kg dry	190	7/02/10 13:20	7/20/10 1:17	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-17

Lab ID: E102705-09

Station ID: RPAD17

Matrix: Surface Soil

Date Collected: 6/29/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	4.8	U, D-4	ug/kg dry	4.8	7/02/10 13:20	7/20/10 2:14	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	11		ug/kg dry	4.5	7/02/10 13:20	7/15/10 5:30	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	28		ug/kg dry	11	7/02/10 13:20	7/15/10 5:30	EPA 8081
309-00-2	Aldrin	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 2:14	EPA 8081
319-84-6	alpha-BHC	0.45	U	ug/kg dry	0.45	7/02/10 13:20	7/20/10 2:14	EPA 8081
5103-71-9	alpha-Chlordane	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 2:14	EPA 8081
319-85-7	beta-BHC	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 2:14	EPA 8081
319-86-8	delta-BHC	2.4	U, D-4	ug/kg dry	2.4	7/02/10 13:20	7/20/10 2:14	EPA 8081
60-57-1	Dieldrin	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 2:14	EPA 8081
959-98-8	Endosulfan I (alpha)	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 2:14	EPA 8081
33213-65-9	Endosulfan II (beta)	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 2:14	EPA 8081
1031-07-8	Endosulfan Sulfate	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/20/10 2:14	EPA 8081
72-20-8	Endrin	5.3	U, D-4	ug/kg dry	5.3	7/02/10 13:20	7/20/10 2:14	EPA 8081
7421-93-4	Endrin aldehyde	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/20/10 2:14	EPA 8081
53494-70-5	Endrin ketone	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/20/10 2:14	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.3	U, D-4	ug/kg dry	2.3	7/02/10 13:20	7/20/10 2:14	EPA 8081
5566-34-7	gamma-Chlordane	2.2	U, D-4	ug/kg dry	2.2	7/02/10 13:20	7/20/10 2:14	EPA 8081
76-44-8	Heptachlor	0.68	U	ug/kg dry	0.68	7/02/10 13:20	7/20/10 2:14	EPA 8081
1024-57-3	Heptachlor epoxide	2.2	U, D-4	ug/kg dry	2.2	7/02/10 13:20	7/20/10 2:14	EPA 8081
72-43-5	Methoxychlor	4.5	U	ug/kg dry	4.5	7/02/10 13:20	7/20/10 2:14	EPA 8081
8001-35-2	Toxaphene	180	U, D-4	ug/kg dry	180	7/02/10 13:20	7/20/10 2:14	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-18**

Lab ID: **E102705-10**

Station ID: **RPAD18**

Matrix: Surface Soil

Date Collected: 6/29/10 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.3	U	ug/kg dry	9.3	7/02/10 13:20	7/15/10 5:49	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	36		ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	63		ug/kg dry	12	7/02/10 13:20	7/15/10 5:49	EPA 8081
309-00-2	Aldrin	34		ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
319-84-6	alpha-BHC	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/15/10 5:49	EPA 8081
5103-71-9	alpha-Chlordane	96	J, Q-4	ug/kg dry	93	7/02/10 13:20	7/20/10 9:43	EPA 8081
319-85-7	beta-BHC	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
319-86-8	delta-BHC	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
60-57-1	Dieldrin	840		ug/kg dry	93	7/02/10 13:20	7/20/10 9:43	EPA 8081
959-98-8	Endosulfan I (alpha)	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
33213-65-9	Endosulfan II (beta)	9.3	U	ug/kg dry	9.3	7/02/10 13:20	7/15/10 5:49	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 5:49	EPA 8081
72-20-8	Endrin	31	U, D-4	ug/kg dry	31	7/02/10 13:20	7/15/10 5:49	EPA 8081
7421-93-4	Endrin aldehyde	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 5:49	EPA 8081
53494-70-5	Endrin ketone	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 5:49	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/15/10 5:49	EPA 8081
5566-34-7	gamma-Chlordane	68		ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
76-44-8	Heptachlor	3.5	U	ug/kg dry	3.5	7/02/10 13:20	7/15/10 5:49	EPA 8081
1024-57-3	Heptachlor epoxide	6.5		ug/kg dry	4.7	7/02/10 13:20	7/15/10 5:49	EPA 8081
72-43-5	Methoxychlor	23	U	ug/kg dry	23	7/02/10 13:20	7/15/10 5:49	EPA 8081
8001-35-2	Toxaphene	470	U	ug/kg dry	470	7/02/10 13:20	7/15/10 5:49	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-19

Lab ID: E102705-11

Station ID: RPAD19

Matrix: Surface Soil

Date Collected: 6/22/10 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.4	U	ug/kg dry	9.4	7/02/10 13:20	7/15/10 6:07	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	68		ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	78		ug/kg dry	12	7/02/10 13:20	7/15/10 6:07	EPA 8081
309-00-2	Aldrin	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
319-84-6	alpha-BHC	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/15/10 6:07	EPA 8081
5103-71-9	alpha-Chlordane	16	J, Q-4	ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
319-85-7	beta-BHC	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
319-86-8	delta-BHC	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
60-57-1	Dieldrin	13		ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
959-98-8	Endosulfan I (alpha)	10	U	ug/kg dry	10	7/02/10 13:20	7/15/10 6:07	EPA 8081
33213-65-9	Endosulfan II (beta)	9.4	U	ug/kg dry	9.4	7/02/10 13:20	7/15/10 6:07	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 6:07	EPA 8081
72-20-8	Endrin	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 6:07	EPA 8081
7421-93-4	Endrin aldehyde	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 6:07	EPA 8081
53494-70-5	Endrin ketone	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 6:07	EPA 8081
58-89-9	gamma-BHC (Lindane)	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/15/10 6:07	EPA 8081
5566-34-7	gamma-Chlordane	30		ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
76-44-8	Heptachlor	16		ug/kg dry	3.5	7/02/10 13:20	7/15/10 6:07	EPA 8081
1024-57-3	Heptachlor epoxide	11		ug/kg dry	4.7	7/02/10 13:20	7/15/10 6:07	EPA 8081
72-43-5	Methoxychlor	24	U	ug/kg dry	24	7/02/10 13:20	7/15/10 6:07	EPA 8081
8001-35-2	Toxaphene	470	U	ug/kg dry	470	7/02/10 13:20	7/15/10 6:07	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-28

Lab ID: E102705-12

Station ID: RPAD28

Matrix: Surface Soil

Date Collected: 6/29/10 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	7.5	U, D-4	ug/kg dry	7.5	7/02/10 13:20	7/15/10 6:26	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	110		ug/kg dry	42	7/02/10 13:20	7/19/10 18:01	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	57		ug/kg dry	11	7/02/10 13:20	7/15/10 6:26	EPA 8081
309-00-2	Aldrin	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/28/10 12:38	EPA 8081
319-84-6	alpha-BHC	0.42	U	ug/kg dry	0.42	7/02/10 13:20	7/28/10 12:38	EPA 8081
5103-71-9	alpha-Chlordane	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/28/10 12:38	EPA 8081
319-85-7	beta-BHC	3.3	U, D-4	ug/kg dry	3.3	7/02/10 13:20	7/15/10 6:26	EPA 8081
319-86-8	delta-BHC	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/28/10 12:38	EPA 8081
60-57-1	Dieldrin	43		ug/kg dry	42	7/02/10 13:20	7/19/10 18:01	EPA 8081
959-98-8	Endosulfan I (alpha)	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/28/10 12:38	EPA 8081
33213-65-9	Endosulfan II (beta)	1.7	U	ug/kg dry	1.7	7/02/10 13:20	7/15/10 6:26	EPA 8081
1031-07-8	Endosulfan Sulfate	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/15/10 6:26	EPA 8081
72-20-8	Endrin	8.7	U, D-4	ug/kg dry	8.7	7/02/10 13:20	7/15/10 6:26	EPA 8081
7421-93-4	Endrin aldehyde	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/15/10 6:26	EPA 8081
53494-70-5	Endrin ketone	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/28/10 12:38	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.93	U, D-4	ug/kg dry	0.93	7/02/10 13:20	7/15/10 6:26	EPA 8081
5566-34-7	gamma-Chlordane	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/28/10 12:38	EPA 8081
76-44-8	Heptachlor	0.63	U	ug/kg dry	0.63	7/02/10 13:20	7/28/10 12:38	EPA 8081
1024-57-3	Heptachlor epoxide	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/28/10 12:38	EPA 8081
72-43-5	Methoxychlor	4.2	U	ug/kg dry	4.2	7/02/10 13:20	7/15/10 6:26	EPA 8081
8001-35-2	Toxaphene	420	U, D-4	ug/kg dry	420	7/02/10 13:20	7/28/10 12:38	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-29

Lab ID: E102705-13

Station ID: RPAD29

Matrix: Surface Soil

Date Collected: 6/29/10 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	19	U, D-4	ug/kg dry	19	7/02/10 13:20	7/15/10 6:44	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	99		ug/kg dry	8.8	7/02/10 13:20	7/19/10 18:20	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	82		ug/kg dry	11	7/02/10 13:20	7/15/10 6:44	EPA 8081
309-00-2	Aldrin	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/28/10 22:29	EPA 8081
319-84-6	alpha-BHC	2.2	U	ug/kg dry	2.2	7/02/10 13:20	7/28/10 22:29	EPA 8081
5103-71-9	alpha-Chlordane	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/15/10 6:44	EPA 8081
319-85-7	beta-BHC	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/15/10 6:44	EPA 8081
319-86-8	delta-BHC	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/15/10 6:44	EPA 8081
60-57-1	Dieldrin	17		ug/kg dry	4.4	7/02/10 13:20	7/15/10 6:44	EPA 8081
959-98-8	Endosulfan I (alpha)	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/28/10 22:29	EPA 8081
33213-65-9	Endosulfan II (beta)	8.8	U	ug/kg dry	8.8	7/02/10 13:20	7/15/10 6:44	EPA 8081
1031-07-8	Endosulfan Sulfate	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 6:44	EPA 8081
72-20-8	Endrin	14	U, D-4	ug/kg dry	14	7/02/10 13:20	7/15/10 6:44	EPA 8081
7421-93-4	Endrin aldehyde	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 6:44	EPA 8081
53494-70-5	Endrin ketone	11	U	ug/kg dry	11	7/02/10 13:20	7/15/10 6:44	EPA 8081
58-89-9	gamma-BHC [Lindane]	3.6	U, D-4	ug/kg dry	3.6	7/02/10 13:20	7/15/10 6:44	EPA 8081
5566-34-7	gamma-Chlordane	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/15/10 6:44	EPA 8081
76-44-8	Heptachlor	3.3	U	ug/kg dry	3.3	7/02/10 13:20	7/28/10 22:29	EPA 8081
1024-57-3	Heptachlor epoxide	4.4	U	ug/kg dry	4.4	7/02/10 13:20	7/15/10 6:44	EPA 8081
72-43-5	Methoxychlor	22	U	ug/kg dry	22	7/02/10 13:20	7/15/10 6:44	EPA 8081
8001-35-2	Toxaphene	600	U	ug/kg dry	600	7/02/10 13:20	7/28/10 22:29	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-30**

Lab ID: **E102705-14**

Station ID: **RPAD30**

Matrix: Surface Soil

Date Collected: 6/29/10 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.0	U, D-4	ug/kg dry	9.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	11		ug/kg dry	5.0	7/02/10 13:20	7/15/10 7:03	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	11		ug/kg dry	2.5	7/02/10 13:20	7/20/10 3:11	EPA 8081
309-00-2	Aldrin	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
319-84-6	alpha-BHC	0.70	U, D-4	ug/kg dry	0.70	7/02/10 13:20	7/20/10 3:11	EPA 8081
5103-71-9	alpha-Chlordane	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
319-85-7	beta-BHC	2.4	U, D-4	ug/kg dry	2.4	7/02/10 13:20	7/20/10 3:11	EPA 8081
319-86-8	delta-BHC	3.3	U, D-4	ug/kg dry	3.3	7/02/10 13:20	7/20/10 3:11	EPA 8081
60-57-1	Dieldrin	2.4	U, D-4	ug/kg dry	2.4	7/02/10 13:20	7/20/10 3:11	EPA 8081
959-98-8	Endosulfan I (alpha)	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
33213-65-9	Endosulfan II (beta)	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
1031-07-8	Endosulfan Sulfate	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/20/10 3:11	EPA 8081
72-20-8	Endrin	7.6	U, D-4	ug/kg dry	7.6	7/02/10 13:20	7/20/10 3:11	EPA 8081
7421-93-4	Endrin aldehyde	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/20/10 3:11	EPA 8081
53494-70-5	Endrin ketone	2.5	U	ug/kg dry	2.5	7/02/10 13:20	7/20/10 3:11	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.4	U, D-4	ug/kg dry	2.4	7/02/10 13:20	7/20/10 3:11	EPA 8081
5566-34-7	gamma-Chlordane	1.5		ug/kg dry	1.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
76-44-8	Heptachlor	0.75	U	ug/kg dry	0.75	7/02/10 13:20	7/20/10 3:11	EPA 8081
1024-57-3	Heptachlor epoxide	1.0	U	ug/kg dry	1.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
72-43-5	Methoxychlor	5.0	U	ug/kg dry	5.0	7/02/10 13:20	7/20/10 3:11	EPA 8081
8001-35-2	Toxaphene	210	U, D-4	ug/kg dry	210	7/02/10 13:20	7/20/10 3:11	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-80**

Lab ID: **E102705-15**

Station ID: **RPAD30**

Matrix: Surface Soil

Date Collected: 6/29/10 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 4:09	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	11		ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:22	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	11		ug/kg dry	2.4	7/02/10 13:20	7/20/10 4:09	EPA 8081
309-00-2	Aldrin	0.97	U	ug/kg dry	0.97	7/02/10 13:20	7/20/10 4:09	EPA 8081
319-84-6	alpha-BHC	0.90	U, D-4	ug/kg dry	0.90	7/02/10 13:20	7/20/10 4:09	EPA 8081
5103-71-9	alpha-Chlordane	5.5	U, D-4	ug/kg dry	5.5	7/02/10 13:20	7/20/10 4:09	EPA 8081
319-85-7	beta-BHC	2.6	U, D-4	ug/kg dry	2.6	7/02/10 13:20	7/20/10 4:09	EPA 8081
319-86-8	delta-BHC	3.5	U, D-4	ug/kg dry	3.5	7/02/10 13:20	7/20/10 4:09	EPA 8081
60-57-1	Dieldrin	2.6	U, D-4	ug/kg dry	2.6	7/02/10 13:20	7/20/10 4:09	EPA 8081
959-98-8	Endosulfan I (alpha)	0.97	U	ug/kg dry	0.97	7/02/10 13:20	7/20/10 4:09	EPA 8081
33213-65-9	Endosulfan II (beta)	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/20/10 4:09	EPA 8081
1031-07-8	Endosulfan Sulfate	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/20/10 4:09	EPA 8081
72-20-8	Endrin	7.3	U, D-4	ug/kg dry	7.3	7/02/10 13:20	7/20/10 4:09	EPA 8081
7421-93-4	Endrin aldehyde	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/20/10 4:09	EPA 8081
53494-70-5	Endrin ketone	2.4	U	ug/kg dry	2.4	7/02/10 13:20	7/20/10 4:09	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.5	U, D-4	ug/kg dry	2.5	7/02/10 13:20	7/20/10 4:09	EPA 8081
5566-34-7	gamma-Chlordane	1.7		ug/kg dry	0.97	7/02/10 13:20	7/20/10 4:09	EPA 8081
76-44-8	Heptachlor	1.7	U, D-4	ug/kg dry	1.7	7/02/10 13:20	7/20/10 4:09	EPA 8081
1024-57-3	Heptachlor epoxide	0.97	U	ug/kg dry	0.97	7/02/10 13:20	7/20/10 4:09	EPA 8081
72-43-5	Methoxychlor	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/20/10 4:09	EPA 8081
8001-35-2	Toxaphene	200	U, D-4	ug/kg dry	200	7/02/10 13:20	7/20/10 4:09	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-31

Lab ID: E102705-16

Station ID: RPAD31

Matrix: Surface Soil

Date Collected: 6/29/10 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	40	U, D-4	ug/kg dry	40	7/02/10 13:20	7/28/10 16:56	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	31		ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:40	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	36		ug/kg dry	12	7/02/10 13:20	7/15/10 7:40	EPA 8081
309-00-2	Aldrin	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/28/10 16:56	EPA 8081
319-84-6	alpha-BHC	0.95	U	ug/kg dry	0.95	7/02/10 13:20	7/28/10 16:56	EPA 8081
5103-71-9	alpha-Chlordane	40	J, Q-4	ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:40	EPA 8081
319-85-7	beta-BHC	4.6	U, D-4	ug/kg dry	4.6	7/02/10 13:20	7/28/10 16:56	EPA 8081
319-86-8	delta-BHC	3.4	U, D-4	ug/kg dry	3.4	7/02/10 13:20	7/28/10 16:56	EPA 8081
60-57-1	Dieldrin	3.4	U, D-4	ug/kg dry	3.4	7/02/10 13:20	7/28/10 16:56	EPA 8081
959-98-8	Endosulfan I (alpha)	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/28/10 16:56	EPA 8081
33213-65-9	Endosulfan II (beta)	3.8	U	ug/kg dry	3.8	7/02/10 13:20	7/28/10 16:56	EPA 8081
1031-07-8	Endosulfan Sulfate	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/28/10 16:56	EPA 8081
72-20-8	Endrin	3.8	U	ug/kg dry	3.8	7/02/10 13:20	7/28/10 16:56	EPA 8081
7421-93-4	Endrin aldehyde	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/28/10 16:56	EPA 8081
53494-70-5	Endrin ketone	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/28/10 16:56	EPA 8081
58-89-9	gamma-BHC [Lindane]	4.0	U, D-4	ug/kg dry	4.0	7/02/10 13:20	7/28/10 16:56	EPA 8081
5566-34-7	gamma-Chlordane	70		ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:40	EPA 8081
76-44-8	Heptachlor	3.4	U, D-4	ug/kg dry	3.4	7/02/10 13:20	7/28/10 16:56	EPA 8081
1024-57-3	Heptachlor epoxide	10		ug/kg dry	1.9	7/02/10 13:20	7/28/10 16:56	EPA 8081
72-43-5	Methoxychlor	9.5	U	ug/kg dry	9.5	7/02/10 13:20	7/28/10 16:56	EPA 8081
8001-35-2	Toxaphene	250	U, D-4	ug/kg dry	250	7/02/10 13:20	7/28/10 16:56	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-32

Lab ID: E102705-17

Station ID: RPAD32

Matrix: Surface Soil

Date Collected: 6/29/10 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	22	U, D-4	ug/kg dry	22	7/02/10 13:20	7/28/10 18:22	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	55		ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:59	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	110		ug/kg dry	12	7/02/10 13:20	7/15/10 7:59	EPA 8081
309-00-2	Aldrin	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/28/10 18:22	EPA 8081
319-84-6	alpha-BHC	0.96	U	ug/kg dry	0.96	7/02/10 13:20	7/28/10 18:22	EPA 8081
5103-71-9	alpha-Chlordane	14	J, Q-4	ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:59	EPA 8081
319-85-7	beta-BHC	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/28/10 18:22	EPA 8081
319-86-8	delta-BHC	2.1		ug/kg dry	1.9	7/02/10 13:20	7/28/10 18:22	EPA 8081
60-57-1	Dieldrin	32		ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:59	EPA 8081
959-98-8	Endosulfan I (alpha)	1.9	U	ug/kg dry	1.9	7/02/10 13:20	7/28/10 18:22	EPA 8081
33213-65-9	Endosulfan II (beta)	3.8	U	ug/kg dry	3.8	7/02/10 13:20	7/28/10 18:22	EPA 8081
1031-07-8	Endosulfan Sulfate	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/28/10 18:22	EPA 8081
72-20-8	Endrin	18	U, D-4	ug/kg dry	18	7/02/10 13:20	7/28/10 7:59	EPA 8081
7421-93-4	Endrin aldehyde	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/28/10 18:22	EPA 8081
53494-70-5	Endrin ketone	4.8	U	ug/kg dry	4.8	7/02/10 13:20	7/28/10 18:22	EPA 8081
58-89-9	gamma-BHC (Lindane)	2.3	U, D-4	ug/kg dry	2.3	7/02/10 13:20	7/28/10 18:22	EPA 8081
5566-34-7	gamma-Chlordane	26		ug/kg dry	4.8	7/02/10 13:20	7/15/10 7:59	EPA 8081
76-44-8	Heptachlor	2.7		ug/kg dry	1.4	7/02/10 13:20	7/28/10 18:22	EPA 8081
1024-57-3	Heptachlor epoxide	7.8		ug/kg dry	1.9	7/02/10 13:20	7/28/10 18:22	EPA 8081
72-43-5	Methoxychlor	9.6	U	ug/kg dry	9.6	7/02/10 13:20	7/28/10 18:22	EPA 8081
8001-35-2	Toxaphene	320	U, D-4	ug/kg dry	320	7/02/10 13:20	7/28/10 18:22	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-36

Lab ID: E102705-18

Station ID: RPAD36

Matrix: Surface Soil

Date Collected: 6/29/10 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	4.2	U, D-4	ug/kg dry	4.2	7/02/10 13:20	7/20/10 5:06	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	10		ug/kg dry	4.2	7/02/10 13:20	7/15/10 8:18	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	13		ug/kg dry	2.1	7/02/10 13:20	7/20/10 5:06	EPA 8081
309-00-2	Aldrin	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
319-84-6	alpha-BHC	0.42	U	ug/kg dry	0.42	7/02/10 13:20	7/20/10 5:06	EPA 8081
5103-71-9	alpha-Chlordane	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
319-85-7	beta-BHC	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
319-86-8	delta-BHC	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
60-57-1	Dieldrin	4.1	U, D-4	ug/kg dry	4.1	7/02/10 13:20	7/20/10 5:06	EPA 8081
959-98-8	Endosulfan I (alpha)	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
33213-65-9	Endosulfan II (beta)	1.7	U	ug/kg dry	1.7	7/02/10 13:20	7/20/10 5:06	EPA 8081
1031-07-8	Endosulfan Sulfate	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/20/10 5:06	EPA 8081
72-20-8	Endrin	4.3	U, D-4	ug/kg dry	4.3	7/02/10 13:20	7/20/10 5:06	EPA 8081
7421-93-4	Endrin aldehyde	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/20/10 5:06	EPA 8081
53494-70-5	Endrin ketone	2.1	U	ug/kg dry	2.1	7/02/10 13:20	7/20/10 5:06	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.57	U	ug/kg dry	0.57	7/02/10 13:20	7/20/10 5:06	EPA 8081
5566-34-7	gamma-Chlordane	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
76-44-8	Heptachlor	0.63	U	ug/kg dry	0.63	7/02/10 13:20	7/20/10 5:06	EPA 8081
1024-57-3	Heptachlor epoxide	0.84	U	ug/kg dry	0.84	7/02/10 13:20	7/20/10 5:06	EPA 8081
72-43-5	Methoxychlor	4.2	U	ug/kg dry	4.2	7/02/10 13:20	7/20/10 5:06	EPA 8081
8001-35-2	Toxaphene	84	U	ug/kg dry	84	7/02/10 13:20	7/20/10 5:06	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-37

Lab ID: E102705-19

Station ID: RPAD37

Matrix: Surface Soil

Date Collected: 6/29/10 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	8.5	U, D-4	ug/kg dry	8.5	7/02/10 13:20	7/20/10 6:03	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	54		ug/kg dry	4.6	7/02/10 13:20	7/15/10 8:36	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	54		ug/kg dry	11	7/02/10 13:20	7/15/10 8:36	EPA 8081
309-00-2	Aldrin	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
319-84-6	alpha-BHC	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 6:03	EPA 8081
5103-71-9	alpha-Chlordane	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
319-85-7	beta-BHC	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
319-86-8	delta-BHC	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
60-57-1	Dieldrin	2.5	U, D-4	ug/kg dry	2.5	7/02/10 13:20	7/20/10 6:03	EPA 8081
959-98-8	Endosulfan I (alpha)	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
33213-65-9	Endosulfan II (beta)	3.6	U	ug/kg dry	3.6	7/02/10 13:20	7/20/10 6:03	EPA 8081
1031-07-8	Endosulfan Sulfate	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/20/10 6:03	EPA 8081
72-20-8	Endrin	11	U, D-4	ug/kg dry	11	7/02/10 13:20	7/20/10 6:03	EPA 8081
7421-93-4	Endrin aldehyde	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/20/10 6:03	EPA 8081
53494-70-5	Endrin ketone	4.6	U	ug/kg dry	4.6	7/02/10 13:20	7/20/10 6:03	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.91	U	ug/kg dry	0.91	7/02/10 13:20	7/20/10 6:03	EPA 8081
5566-34-7	gamma-Chlordane	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
76-44-8	Heptachlor	1.4	U	ug/kg dry	1.4	7/02/10 13:20	7/20/10 6:03	EPA 8081
1024-57-3	Heptachlor epoxide	1.8	U	ug/kg dry	1.8	7/02/10 13:20	7/20/10 6:03	EPA 8081
72-43-5	Methoxychlor	9.1	U	ug/kg dry	9.1	7/02/10 13:20	7/20/10 6:03	EPA 8081
8001-35-2	Toxaphene	180	U	ug/kg dry	180	7/02/10 13:20	7/20/10 6:03	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-38

Lab ID: E102705-20

Station ID: RPAD38

Matrix: Surface Soil

Date Collected: 6/29/10 12:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.4	U	ug/kg dry	9.4	7/02/10 13:20	7/15/10 8:55	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	65		ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	330		ug/kg dry	120	7/02/10 13:20	7/19/10 18:38	EPA 8081
309-00-2	Aldrin	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
319-84-6	alpha-BHC	2.3	U	ug/kg dry	2.3	7/02/10 13:20	7/15/10 8:55	EPA 8081
5103-71-9	alpha-Chlordane	53	J, Q-4	ug/kg dry	47	7/02/10 13:20	7/19/10 18:38	EPA 8081
319-85-7	beta-BHC	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
319-86-8	delta-BHC	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
60-57-1	Dieldrin	30	U, D-4	ug/kg dry	30	7/02/10 13:20	7/15/10 8:55	EPA 8081
959-98-8	Endosulfan I (alpha)	4.7	U	ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
33213-65-9	Endosulfan II (beta)	9.4	U	ug/kg dry	9.4	7/02/10 13:20	7/15/10 8:55	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 8:55	EPA 8081
72-20-8	Endrin	49		ug/kg dry	9.4	7/02/10 13:20	7/15/10 8:55	EPA 8081
7421-93-4	Endrin aldehyde	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 8:55	EPA 8081
53494-70-5	Endrin ketone	12	U	ug/kg dry	12	7/02/10 13:20	7/15/10 8:55	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.0	U, D-4	ug/kg dry	3.0	7/02/10 13:20	7/15/10 8:55	EPA 8081
5566-34-7	gamma-Chlordane	57		ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
76-44-8	Heptachlor	3.5	U	ug/kg dry	3.5	7/02/10 13:20	7/15/10 8:55	EPA 8081
1024-57-3	Heptachlor epoxide	51		ug/kg dry	4.7	7/02/10 13:20	7/15/10 8:55	EPA 8081
72-43-5	Methoxychlor	23	U	ug/kg dry	23	7/02/10 13:20	7/15/10 8:55	EPA 8081
8001-35-2	Toxaphene	110	U, J, H-7	ug/kg dry	110	8/12/10 9:00	8/20/10 13:46	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-39

Lab ID: E102705-21

Station ID: RPAD39

Matrix: Surface Soil

Date Collected: 6/29/10 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	15	U, D-4	ug/kg dry	15	7/02/10 13:20	7/20/10 7:00	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	48		ug/kg dry	5.1	7/02/10 13:20	7/15/10 9:13	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	130		ug/kg dry	13	7/02/10 13:20	7/15/10 9:13	EPA 8081
309-00-2	Aldrin	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
319-84-6	alpha-BHC	1.2		ug/kg dry	1.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
5103-71-9	alpha-Chlordane	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
319-85-7	beta-BHC	4.8		ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
319-86-8	delta-BHC	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
60-57-1	Dieldrin	11		ug/kg dry	5.1	7/02/10 13:20	7/15/10 9:13	EPA 8081
959-98-8	Endosulfan I (alpha)	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
33213-65-9	Endosulfan II (beta)	4.0	U	ug/kg dry	4.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
1031-07-8	Endosulfan Sulfate	5.1	U	ug/kg dry	5.1	7/02/10 13:20	7/20/10 7:00	EPA 8081
72-20-8	Endrin	16	U, D-4	ug/kg dry	16	7/02/10 13:20	7/20/10 7:00	EPA 8081
7421-93-4	Endrin aldehyde	5.1	U	ug/kg dry	5.1	7/02/10 13:20	7/20/10 7:00	EPA 8081
53494-70-5	Endrin ketone	5.1	U	ug/kg dry	5.1	7/02/10 13:20	7/20/10 7:00	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.9		ug/kg dry	1.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
5566-34-7	gamma-Chlordane	3.1		ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
76-44-8	Heptachlor	1.5	U	ug/kg dry	1.5	7/02/10 13:20	7/20/10 7:00	EPA 8081
1024-57-3	Heptachlor epoxide	2.0	U	ug/kg dry	2.0	7/02/10 13:20	7/20/10 7:00	EPA 8081
72-43-5	Methoxychlor	10	U	ug/kg dry	10	7/02/10 13:20	7/20/10 7:00	EPA 8081
8001-35-2	Toxaphene	250	U, D-4	ug/kg dry	250	7/02/10 13:20	7/20/10 7:00	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-46

Lab ID: E102705-22

Station ID: RPAD46

Matrix: Surface Soil

Date Collected: 6/29/10 11:26

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	1.7	U	ug/kg dry	1.7	7/06/10 12:54	7/15/10 11:40	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	10		ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	8.8		ug/kg dry	2.1	7/06/10 12:54	7/15/10 11:40	EPA 8081
309-00-2	Aldrin	0.84	U	ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
319-84-6	alpha-BHC	0.43		ug/kg dry	0.42	7/06/10 12:54	7/15/10 11:40	EPA 8081
5103-71-9	alpha-Chlordane	0.84	U	ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
319-85-7	beta-BHC	3.4		ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
319-86-8	delta-BHC	0.84	U	ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
60-57-1	Dieldrin	6.8		ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
959-98-8	Endosulfan I (alpha)	0.84	U	ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
33213-65-9	Endosulfan II (beta)	1.7	U	ug/kg dry	1.7	7/06/10 12:54	7/15/10 11:40	EPA 8081
1031-07-8	Endosulfan Sulfate	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 11:40	EPA 8081
72-20-8	Endrin	1.7	U	ug/kg dry	1.7	7/06/10 12:54	7/15/10 11:40	EPA 8081
7421-93-4	Endrin aldehyde	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 11:40	EPA 8081
53494-70-5	Endrin ketone	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 11:40	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.92	U, D-4	ug/kg dry	0.92	7/06/10 12:54	7/15/10 11:40	EPA 8081
5566-34-7	gamma-Chlordane	0.84	U	ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
76-44-8	Heptachlor	0.63	U	ug/kg dry	0.63	7/06/10 12:54	7/15/10 11:40	EPA 8081
1024-57-3	Heptachlor epoxide	0.84	U	ug/kg dry	0.84	7/06/10 12:54	7/15/10 11:40	EPA 8081
72-43-5	Methoxychlor	4.2	U	ug/kg dry	4.2	7/06/10 12:54	7/15/10 11:40	EPA 8081
8001-35-2	Toxaphene	84	U	ug/kg dry	84	7/06/10 12:54	7/15/10 11:40	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-47

Lab ID: E102705-23

Station ID: RPAD47

Matrix: Surface Soil

Date Collected: 6/29/10 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	57		ug/kg dry	11	7/06/10 12:54	7/15/10 20:51	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	170		ug/kg dry	27	7/06/10 12:54	7/15/10 20:51	EPA 8081
309-00-2	Aldrin	1.1	U	ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
319-84-6	alpha-BHC	0.74		ug/kg dry	0.53	7/06/10 12:54	7/15/10 18:27	EPA 8081
5103-71-9	alpha-Chlordane	6.2	U, D-4	ug/kg dry	6.2	7/06/10 12:54	7/15/10 18:27	EPA 8081
319-85-7	beta-BHC	9.7		ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
319-86-8	delta-BHC	1.1	U	ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
60-57-1	Dieldrin	2.3		ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
959-98-8	Endosulfan I (alpha)	1.1	U	ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
33213-65-9	Endosulfan II (beta)	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
1031-07-8	Endosulfan Sulfate	2.7	U	ug/kg dry	2.7	7/06/10 12:54	7/15/10 18:27	EPA 8081
72-20-8	Endrin	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
7421-93-4	Endrin aldehyde	6.3		ug/kg dry	2.7	7/06/10 12:54	7/15/10 18:27	EPA 8081
53494-70-5	Endrin ketone	2.7	U	ug/kg dry	2.7	7/06/10 12:54	7/15/10 18:27	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.84		ug/kg dry	0.53	7/06/10 12:54	7/15/10 18:27	EPA 8081
5566-34-7	gamma-Chlordane	2.1		ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
76-44-8	Heptachlor	0.80	U	ug/kg dry	0.80	7/06/10 12:54	7/15/10 18:27	EPA 8081
1024-57-3	Heptachlor epoxide	1.1	U	ug/kg dry	1.1	7/06/10 12:54	7/15/10 18:27	EPA 8081
72-43-5	Methoxychlor	5.3	U	ug/kg dry	5.3	7/06/10 12:54	7/15/10 18:27	EPA 8081
8001-35-2	Toxaphene	110	U	ug/kg dry	110	7/06/10 12:54	7/15/10 18:27	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-48

Lab ID: E102705-24

Station ID: RPAD48

Matrix: Surface Soil

Date Collected: 6/29/10 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.0	U, D-4	ug/kg dry	9.0	7/06/10 12:54	7/14/10 19:49	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	24		ug/kg dry	4.5	7/06/10 12:54	7/14/10 19:49	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	44		ug/kg dry	11	7/06/10 12:54	7/14/10 19:49	EPA 8081
309-00-2	Aldrin	4.5	U, D-4	ug/kg dry	4.5	7/06/10 12:54	7/14/10 19:49	EPA 8081
319-84-6	alpha-BHC	2.2	U, D-4	ug/kg dry	2.2	7/06/10 12:54	7/14/10 19:49	EPA 8081
5103-71-9	alpha-Chlordane	4.5	U, D-4	ug/kg dry	4.5	7/06/10 12:54	7/14/10 19:49	EPA 8081
319-85-7	beta-BHC	10	U, D-4	ug/kg dry	10	7/06/10 12:54	7/14/10 19:49	EPA 8081
319-86-8	delta-BHC	4.5	U, D-4	ug/kg dry	4.5	7/06/10 12:54	7/14/10 19:49	EPA 8081
60-57-1	Dieldrin	2.6		ug/kg dry	0.90	7/06/10 12:54	7/15/10 15:34	EPA 8081
959-98-8	Endosulfan I (alpha)	0.90	U	ug/kg dry	0.90	7/06/10 12:54	7/15/10 15:34	EPA 8081
33213-65-9	Endosulfan II (beta)	1.8	U	ug/kg dry	1.8	7/06/10 12:54	7/15/10 15:34	EPA 8081
1031-07-8	Endosulfan Sulfate	2.2	U	ug/kg dry	2.2	7/06/10 12:54	7/15/10 15:34	EPA 8081
72-20-8	Endrin	8.0		ug/kg dry	1.8	7/06/10 12:54	7/15/10 15:34	EPA 8081
7421-93-4	Endrin aldehyde	5.2		ug/kg dry	2.2	7/06/10 12:54	7/15/10 15:34	EPA 8081
53494-70-5	Endrin ketone	11	U, D-4	ug/kg dry	11	7/06/10 12:54	7/14/10 19:49	EPA 8081
58-89-9	gamma-BHC (Lindane)	2.2	U, D-4	ug/kg dry	2.2	7/06/10 12:54	7/14/10 19:49	EPA 8081
5566-34-7	gamma-Chlordane	4.5	U, D-4	ug/kg dry	4.5	7/06/10 12:54	7/14/10 19:49	EPA 8081
76-44-8	Heptachlor	3.4	U, D-4	ug/kg dry	3.4	7/06/10 12:54	7/14/10 19:49	EPA 8081
1024-57-3	Heptachlor epoxide	4.5	U, D-4	ug/kg dry	4.5	7/06/10 12:54	7/14/10 19:49	EPA 8081
72-43-5	Methoxychlor	22	U, D-4	ug/kg dry	22	7/06/10 12:54	7/14/10 19:49	EPA 8081
8001-35-2	Toxaphene	450	U, D-4	ug/kg dry	450	7/06/10 12:54	7/14/10 19:49	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-49

Lab ID: E102705-25

Station ID: RPAD49

Matrix: Surface Soil

Date Collected: 6/29/10 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.0	U	ug/kg dry	2.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	7.8		ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	6.9		ug/kg dry	2.5	7/06/10 12:54	7/15/10 11:58	EPA 8081
309-00-2	Aldrin	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
319-84-6	alpha-BHC	0.50	U	ug/kg dry	0.50	7/06/10 12:54	7/15/10 11:58	EPA 8081
5103-71-9	alpha-Chlordane	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
319-85-7	beta-BHC	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
319-86-8	delta-BHC	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
60-57-1	Dieldrin	1.2		ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
959-98-8	Endosulfan I (alpha)	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
33213-65-9	Endosulfan II (beta)	2.0	U	ug/kg dry	2.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
1031-07-8	Endosulfan Sulfate	2.5	U	ug/kg dry	2.5	7/06/10 12:54	7/15/10 11:58	EPA 8081
72-20-8	Endrin	2.0	U	ug/kg dry	2.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
7421-93-4	Endrin aldehyde	2.5	U	ug/kg dry	2.5	7/06/10 12:54	7/15/10 11:58	EPA 8081
53494-70-5	Endrin ketone	2.5	U	ug/kg dry	2.5	7/06/10 12:54	7/15/10 11:58	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.50	U	ug/kg dry	0.50	7/06/10 12:54	7/15/10 11:58	EPA 8081
5566-34-7	gamma-Chlordane	8.5	U, D-4	ug/kg dry	8.5	7/06/10 12:54	7/15/10 11:58	EPA 8081
76-44-8	Heptachlor	0.75	U	ug/kg dry	0.75	7/06/10 12:54	7/15/10 11:58	EPA 8081
1024-57-3	Heptachlor epoxide	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
72-43-5	Methoxychlor	5.0	U	ug/kg dry	5.0	7/06/10 12:54	7/15/10 11:58	EPA 8081
8001-35-2	Toxaphene	100	U	ug/kg dry	100	7/06/10 12:54	7/15/10 11:58	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-50

Lab ID: E102705-26

Station ID: RPAD50

Matrix: Surface Soil

Date Collected: 6/29/10 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	13	U	ug/kg dry	13	7/06/10 12:54	7/14/10 20:24	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	90		ug/kg dry	9.6	7/06/10 12:54	7/15/10 21:09	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	84		ug/kg dry	24	7/06/10 12:54	7/15/10 21:09	EPA 8081
309-00-2	Aldrin	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 20:24	EPA 8081
319-84-6	alpha-BHC	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/14/10 20:24	EPA 8081
5103-71-9	alpha-Chlordane	9.4	U	ug/kg dry	9.4	7/06/10 12:54	7/14/10 20:24	EPA 8081
319-85-7	beta-BHC	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 20:24	EPA 8081
319-86-8	delta-BHC	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 20:24	EPA 8081
60-57-1	Dieldrin	39		ug/kg dry	9.6	7/06/10 12:54	7/15/10 21:09	EPA 8081
959-98-8	Endosulfan I (alpha)	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 20:24	EPA 8081
33213-65-9	Endosulfan II (beta)	9.6	U	ug/kg dry	9.6	7/06/10 12:54	7/14/10 20:24	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/06/10 12:54	7/14/10 20:24	EPA 8081
72-20-8	Endrin	9.6	U	ug/kg dry	9.6	7/06/10 12:54	7/14/10 20:24	EPA 8081
7421-93-4	Endrin aldehyde	17	U	ug/kg dry	17	7/06/10 12:54	7/14/10 20:24	EPA 8081
53494-70-5	Endrin ketone	12	U	ug/kg dry	12	7/06/10 12:54	7/14/10 20:24	EPA 8081
58-89-9	gamma-BHC (Lindane)	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/14/10 20:24	EPA 8081
5566-34-7	gamma-Chlordane	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 20:24	EPA 8081
76-44-8	Heptachlor	3.6	U	ug/kg dry	3.6	7/06/10 12:54	7/14/10 20:24	EPA 8081
1024-57-3	Heptachlor epoxide	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 20:24	EPA 8081
72-43-5	Methoxychlor	24	U	ug/kg dry	24	7/06/10 12:54	7/14/10 20:24	EPA 8081
8001-35-2	Toxaphene	480	U	ug/kg dry	480	7/06/10 12:54	7/14/10 20:24	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-82

Lab ID: E102705-27

Station ID: RPAD50

Matrix: Surface Soil

Date Collected: 6/29/10 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	1.9	U	ug/kg dry	1.9	7/06/10 12:54	7/15/10 13:02	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	3.6		ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	5.3		ug/kg dry	2.4	7/06/10 12:54	7/15/10 13:02	EPA 8081
309-00-2	Aldrin	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
319-84-6	alpha-BHC	0.48	U	ug/kg dry	0.48	7/06/10 12:54	7/15/10 13:02	EPA 8081
5103-71-9	alpha-Chlordane	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
319-85-7	beta-BHC	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
319-86-8	delta-BHC	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
60-57-1	Dieldrin	4.6		ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
959-98-8	Endosulfan I (alpha)	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
33213-65-9	Endosulfan II (beta)	1.9	U	ug/kg dry	1.9	7/06/10 12:54	7/15/10 13:02	EPA 8081
1031-07-8	Endosulfan Sulfate	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/15/10 13:02	EPA 8081
72-20-8	Endrin	1.9	U	ug/kg dry	1.9	7/06/10 12:54	7/15/10 13:02	EPA 8081
7421-93-4	Endrin aldehyde	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/15/10 13:02	EPA 8081
53494-70-5	Endrin ketone	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/15/10 13:02	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.2	U, D-4	ug/kg dry	2.2	7/06/10 12:54	7/15/10 13:02	EPA 8081
5566-34-7	gamma-Chlordane	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
76-44-8	Heptachlor	0.72	U	ug/kg dry	0.72	7/06/10 12:54	7/15/10 13:02	EPA 8081
1024-57-3	Heptachlor epoxide	0.97	U	ug/kg dry	0.97	7/06/10 12:54	7/15/10 13:02	EPA 8081
72-43-5	Methoxychlor	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/15/10 13:02	EPA 8081
8001-35-2	Toxaphene	97	U	ug/kg dry	97	7/06/10 12:54	7/15/10 13:02	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-57

Lab ID: E102705-28

Station ID: RPAD57

Matrix: Surface Soil

Date Collected: 6/29/10 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	9.9	U, D-4	ug/kg dry	9.9	7/06/10 12:54	7/15/10 19:57	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	88		ug/kg dry	9.6	7/06/10 12:54	7/15/10 21:26	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	72		ug/kg dry	24	7/06/10 12:54	7/15/10 21:26	EPA 8081
309-00-2	Aldrin	0.96	U	ug/kg dry	0.96	7/06/10 12:54	7/15/10 19:57	EPA 8081
319-84-6	alpha-BHC	0.56		ug/kg dry	0.48	7/06/10 12:54	7/15/10 19:57	EPA 8081
5103-71-9	alpha-Chlordane	6.9	U, D-4	ug/kg dry	6.9	7/06/10 12:54	7/15/10 19:57	EPA 8081
319-85-7	beta-BHC	3.4	U, D-4	ug/kg dry	3.4	7/06/10 12:54	7/15/10 19:57	EPA 8081
319-86-8	delta-BHC	0.96	U	ug/kg dry	0.96	7/06/10 12:54	7/15/10 19:57	EPA 8081
60-57-1	Dieldrin	36		ug/kg dry	9.6	7/06/10 12:54	7/15/10 21:26	EPA 8081
959-98-8	Endosulfan I (alpha)	0.96	U	ug/kg dry	0.96	7/06/10 12:54	7/15/10 19:57	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4		ug/kg dry	1.9	7/06/10 12:54	7/15/10 19:57	EPA 8081
1031-07-8	Endosulfan Sulfate	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/15/10 19:57	EPA 8081
72-20-8	Endrin	5.3		ug/kg dry	1.9	7/06/10 12:54	7/15/10 19:57	EPA 8081
7421-93-4	Endrin aldehyde	12	U, D-4	ug/kg dry	12	7/06/10 12:54	7/15/10 19:57	EPA 8081
53494-70-5	Endrin ketone	2.4	U	ug/kg dry	2.4	7/06/10 12:54	7/15/10 19:57	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.6	U, D-4	ug/kg dry	1.6	7/06/10 12:54	7/15/10 19:57	EPA 8081
5566-34-7	gamma-Chlordane	2.2		ug/kg dry	0.96	7/06/10 12:54	7/15/10 19:57	EPA 8081
76-44-8	Heptachlor	0.72	U	ug/kg dry	0.72	7/06/10 12:54	7/15/10 19:57	EPA 8081
1024-57-3	Heptachlor epoxide	0.96	U	ug/kg dry	0.96	7/06/10 12:54	7/15/10 19:57	EPA 8081
72-43-5	Methoxychlor	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/15/10 19:57	EPA 8081
8001-35-2	Toxaphene	480	U, D-4	ug/kg dry	480	7/06/10 12:54	7/14/10 21:00	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-58

Lab ID: E102705-29

Station ID: RPAD58

Matrix: Surface Soil

Date Collected: 6/29/10 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	1.9	U	ug/kg dry	1.9	7/06/10 12:54	7/15/10 19:15	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	17		ug/kg dry	4.7	7/06/10 12:54	7/14/10 21:18	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	23		ug/kg dry	12	7/06/10 12:54	7/14/10 21:18	EPA 8081
309-00-2	Aldrin	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
319-84-6	alpha-BHC	0.47	U	ug/kg dry	0.47	7/06/10 12:54	7/15/10 19:15	EPA 8081
5103-71-9	alpha-Chlordane	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
319-85-7	beta-BHC	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
319-86-8	delta-BHC	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
60-57-1	Dieldrin	2.4		ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
959-98-8	Endosulfan I (alpha)	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
33213-65-9	Endosulfan II (beta)	1.9	U	ug/kg dry	1.9	7/06/10 12:54	7/15/10 19:15	EPA 8081
1031-07-8	Endosulfan Sulfate	2.3	U	ug/kg dry	2.3	7/06/10 12:54	7/15/10 19:15	EPA 8081
72-20-8	Endrin	3.4		ug/kg dry	1.9	7/06/10 12:54	7/15/10 19:15	EPA 8081
7421-93-4	Endrin aldehyde	2.3	U	ug/kg dry	2.3	7/06/10 12:54	7/15/10 19:15	EPA 8081
53494-70-5	Endrin ketone	2.3	U	ug/kg dry	2.3	7/06/10 12:54	7/15/10 19:15	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.1	U, D-4	ug/kg dry	2.1	7/06/10 12:54	7/15/10 19:15	EPA 8081
5566-34-7	gamma-Chlordane	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
76-44-8	Heptachlor	0.70	U	ug/kg dry	0.70	7/06/10 12:54	7/15/10 19:15	EPA 8081
1024-57-3	Heptachlor epoxide	0.93	U	ug/kg dry	0.93	7/06/10 12:54	7/15/10 19:15	EPA 8081
72-43-5	Methoxychlor	4.7	U	ug/kg dry	4.7	7/06/10 12:54	7/15/10 19:15	EPA 8081
8001-35-2	Toxaphene	93	U	ug/kg dry	93	7/06/10 12:54	7/15/10 19:15	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-59

Lab ID: E102705-30

Station ID: RPAD59

Matrix: Surface Soil

Date Collected: 6/29/10 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.0	U	ug/kg dry	2.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	6.9		ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	9.5	U, D-4	ug/kg dry	9.5	7/06/10 12:54	7/15/10 13:43	EPA 8081
309-00-2	Aldrin	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
319-84-6	alpha-BHC	1.4	U, D-4	ug/kg dry	1.4	7/06/10 12:54	7/15/10 13:43	EPA 8081
5103-71-9	alpha-Chlordane	2.9		ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
319-85-7	beta-BHC	8.7	U, D-4	ug/kg dry	8.7	7/06/10 12:54	7/15/10 13:43	EPA 8081
319-86-8	delta-BHC	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
60-57-1	Dieldrin	3.6	U, D-4	ug/kg dry	3.6	7/06/10 12:54	7/15/10 13:43	EPA 8081
959-98-8	Endosulfan I (alpha)	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
33213-65-9	Endosulfan II (beta)	2.0	U	ug/kg dry	2.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
1031-07-8	Endosulfan Sulfate	2.5	U	ug/kg dry	2.5	7/06/10 12:54	7/15/10 13:43	EPA 8081
72-20-8	Endrin	2.0	U	ug/kg dry	2.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
7421-93-4	Endrin aldehyde	2.5	U	ug/kg dry	2.5	7/06/10 12:54	7/15/10 13:43	EPA 8081
53494-70-5	Endrin ketone	2.5	U	ug/kg dry	2.5	7/06/10 12:54	7/15/10 13:43	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.2		ug/kg dry	0.50	7/06/10 12:54	7/15/10 13:43	EPA 8081
5566-34-7	gamma-Chlordane	1.3		ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
76-44-8	Heptachlor	0.75	U	ug/kg dry	0.75	7/06/10 12:54	7/15/10 13:43	EPA 8081
1024-57-3	Heptachlor epoxide	1.0	U	ug/kg dry	1.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
72-43-5	Methoxychlor	5.0	U	ug/kg dry	5.0	7/06/10 12:54	7/15/10 13:43	EPA 8081
8001-35-2	Toxaphene	100	U	ug/kg dry	100	7/06/10 12:54	7/15/10 13:43	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-60**

Lab ID: **E102705-31**

Station ID: **RPAD60**

Matrix: Surface Soil

Date Collected: 6/29/10 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	21	U	ug/kg dry	21	7/06/10 12:54	7/14/10 21:53	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	180		ug/kg dry	19	7/06/10 12:54	7/15/10 21:44	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	280		ug/kg dry	48	7/06/10 12:54	7/15/10 21:44	EPA 8081
309-00-2	Aldrin	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 21:53	EPA 8081
319-84-6	alpha-BHC	3.3	U	ug/kg dry	3.3	7/06/10 12:54	7/14/10 21:53	EPA 8081
5103-71-9	alpha-Chlordane	8.0	U	ug/kg dry	8.0	7/06/10 12:54	7/14/10 21:53	EPA 8081
319-85-7	beta-BHC	13	U	ug/kg dry	13	7/06/10 12:54	7/14/10 21:53	EPA 8081
319-86-8	delta-BHC	5.4	U	ug/kg dry	5.4	7/06/10 12:54	7/14/10 21:53	EPA 8081
60-57-1	Dieldrin	100		ug/kg dry	19	7/06/10 12:54	7/15/10 21:44	EPA 8081
959-98-8	Endosulfan I (alpha)	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 21:53	EPA 8081
33213-65-9	Endosulfan II (beta)	9.7	U	ug/kg dry	9.7	7/06/10 12:54	7/14/10 21:53	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/06/10 12:54	7/14/10 21:53	EPA 8081
72-20-8	Endrin	18	U	ug/kg dry	18	7/06/10 12:54	7/14/10 21:53	EPA 8081
7421-93-4	Endrin aldehyde	30	U	ug/kg dry	30	7/06/10 12:54	7/14/10 21:53	EPA 8081
53494-70-5	Endrin ketone	12	U	ug/kg dry	12	7/06/10 12:54	7/14/10 21:53	EPA 8081
58-89-9	gamma-BHC (Lindane)	4.7		ug/kg dry	2.4	7/06/10 12:54	7/14/10 21:53	EPA 8081
5566-34-7	gamma-Chlordane	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 21:53	EPA 8081
76-44-8	Heptachlor	3.6	U	ug/kg dry	3.6	7/06/10 12:54	7/14/10 21:53	EPA 8081
1024-57-3	Heptachlor epoxide	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 21:53	EPA 8081
72-43-5	Methoxychlor	24	U	ug/kg dry	24	7/06/10 12:54	7/14/10 21:53	EPA 8081
8001-35-2	Toxaphene	520	U, D-4	ug/kg dry	520	7/06/10 12:54	7/14/10 21:53	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-83

Lab ID: E102705-32

Station ID: RPAD60

Matrix: Surface Soil

Date Collected: 6/29/10 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	16	U	ug/kg dry	16	7/06/10 12:54	7/14/10 22:11	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	150		ug/kg dry	19	7/06/10 12:54	7/15/10 22:02	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	200		ug/kg dry	49	7/06/10 12:54	7/15/10 22:02	EPA 8081
309-00-2	Aldrin	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 22:11	EPA 8081
319-84-6	alpha-BHC	3.1	U	ug/kg dry	3.1	7/06/10 12:54	7/14/10 22:11	EPA 8081
5103-71-9	alpha-Chlordane	6.5	U	ug/kg dry	6.5	7/06/10 12:54	7/14/10 22:11	EPA 8081
319-85-7	beta-BHC	8.0	U	ug/kg dry	8.0	7/06/10 12:54	7/14/10 22:11	EPA 8081
319-86-8	delta-BHC	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 22:11	EPA 8081
60-57-1	Dieldrin	80		ug/kg dry	19	7/06/10 12:54	7/15/10 22:02	EPA 8081
959-98-8	Endosulfan I (alpha)	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 22:11	EPA 8081
33213-65-9	Endosulfan II (beta)	9.7	U	ug/kg dry	9.7	7/06/10 12:54	7/14/10 22:11	EPA 8081
1031-07-8	Endosulfan Sulfate	12	U	ug/kg dry	12	7/06/10 12:54	7/14/10 22:11	EPA 8081
72-20-8	Endrin	15	U	ug/kg dry	15	7/06/10 12:54	7/14/10 22:11	EPA 8081
7421-93-4	Endrin aldehyde	24	U	ug/kg dry	24	7/06/10 12:54	7/14/10 22:11	EPA 8081
53494-70-5	Endrin ketone	12	U	ug/kg dry	12	7/06/10 12:54	7/14/10 22:11	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.4		ug/kg dry	2.4	7/06/10 12:54	7/14/10 22:11	EPA 8081
5566-34-7	gamma-Chlordane	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 22:11	EPA 8081
76-44-8	Heptachlor	3.6	U	ug/kg dry	3.6	7/06/10 12:54	7/14/10 22:11	EPA 8081
1024-57-3	Heptachlor epoxide	4.8	U	ug/kg dry	4.8	7/06/10 12:54	7/14/10 22:11	EPA 8081
72-43-5	Methoxychlor	24	U	ug/kg dry	24	7/06/10 12:54	7/14/10 22:11	EPA 8081
8001-35-2	Toxaphene	480	U	ug/kg dry	480	7/06/10 12:54	7/14/10 22:11	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-71

Lab ID: E102705-33

Station ID: RPAD71

Matrix: Surface Soil

Date Collected: 6/29/10 7:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	1.7	U	ug/kg dry	1.7	7/06/10 12:54	7/15/10 14:30	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	2.7		ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	6.4		ug/kg dry	2.1	7/06/10 12:54	7/15/10 14:30	EPA 8081
309-00-2	Aldrin	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
319-84-6	alpha-BHC	3.1	U, D-4	ug/kg dry	3.1	7/06/10 12:54	7/15/10 14:30	EPA 8081
5103-71-9	alpha-Chlordane	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
319-85-7	beta-BHC	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
319-86-8	delta-BHC	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
60-57-1	Dieldrin	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
959-98-8	Endosulfan I (alpha)	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
33213-65-9	Endosulfan II (beta)	1.7	U	ug/kg dry	1.7	7/06/10 12:54	7/15/10 14:30	EPA 8081
1031-07-8	Endosulfan Sulfate	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 14:30	EPA 8081
72-20-8	Endrin	1.7	U	ug/kg dry	1.7	7/06/10 12:54	7/15/10 14:30	EPA 8081
7421-93-4	Endrin aldehyde	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 14:30	EPA 8081
53494-70-5	Endrin ketone	2.1	U	ug/kg dry	2.1	7/06/10 12:54	7/15/10 14:30	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.3	U, D-4	ug/kg dry	2.3	7/06/10 12:54	7/15/10 14:30	EPA 8081
5566-34-7	gamma-Chlordane	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
76-44-8	Heptachlor	0.64	U	ug/kg dry	0.64	7/06/10 12:54	7/15/10 14:30	EPA 8081
1024-57-3	Heptachlor epoxide	0.85	U	ug/kg dry	0.85	7/06/10 12:54	7/15/10 14:30	EPA 8081
72-43-5	Methoxychlor	4.3	U	ug/kg dry	4.3	7/06/10 12:54	7/15/10 14:30	EPA 8081
8001-35-2	Toxaphene	85	U	ug/kg dry	85	7/06/10 12:54	7/15/10 14:30	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-RB-02**

Lab ID: **E102706-01**

Station ID:

Matrix: Rinse Water Blank

Date Collected: 6/30/10 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.041	U	ug/L	0.041	7/06/10 11:03	7/09/10 13:47	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	0.052	U	ug/L	0.052	7/06/10 11:03	7/09/10 13:47	EPA 8081
309-00-2	Aldrin	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
319-84-6	alpha-BHC	0.010	U	ug/L	0.010	7/06/10 11:03	7/09/10 13:47	EPA 8081
5103-71-9	alpha-Chlordane	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
319-85-7	beta-BHC	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
319-86-8	delta-BHC	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
60-57-1	Dieldrin	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
959-98-8	Endosulfan I (alpha)	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
33213-65-9	Endosulfan II (beta)	0.041	U	ug/L	0.041	7/06/10 11:03	7/09/10 13:47	EPA 8081
1031-07-8	Endosulfan Sulfate	0.052	U	ug/L	0.052	7/06/10 11:03	7/09/10 13:47	EPA 8081
72-20-8	Endrin	0.041	U	ug/L	0.041	7/06/10 11:03	7/09/10 13:47	EPA 8081
7421-93-4	Endrin aldehyde	0.052	U	ug/L	0.052	7/06/10 11:03	7/09/10 13:47	EPA 8081
53494-70-5	Endrin ketone	0.052	U	ug/L	0.052	7/06/10 11:03	7/09/10 13:47	EPA 8081
58-89-9	gamma-BHC (Lindane)	0.010	U	ug/L	0.010	7/06/10 11:03	7/09/10 13:47	EPA 8081
5566-34-7	gamma-Chlordane	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
76-44-8	Heptachlor	0.016	U	ug/L	0.016	7/06/10 11:03	7/09/10 13:47	EPA 8081
1024-57-3	Heptachlor epoxide	0.021	U	ug/L	0.021	7/06/10 11:03	7/09/10 13:47	EPA 8081
72-43-5	Methoxychlor	0.10	U	ug/L	0.10	7/06/10 11:03	7/09/10 13:47	EPA 8081
8001-35-2	Toxaphene	2.1	U	ug/L	2.1	7/06/10 11:03	7/09/10 13:47	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-08**

Lab ID: **E102706-02**

Station ID: **RPAD08**

Matrix: Surface Soil

Date Collected: 6/29/10 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.2	U	ug/kg dry	6.2	7/09/10 13:07	7/23/10 12:16	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	28		ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	43		ug/kg dry	7.8	7/09/10 13:07	7/23/10 12:16	EPA 8081
309-00-2	Aldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 12:16	EPA 8081
5103-71-9	alpha-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
319-85-7	beta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
319-86-8	delta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
60-57-1	Dieldrin	12	U, D-4	ug/kg dry	12	7/09/10 13:07	7/23/10 12:16	EPA 8081
959-98-8	Endosulfan I (alpha)	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
33213-65-9	Endosulfan II (beta)	6.2	U	ug/kg dry	6.2	7/09/10 13:07	7/23/10 12:16	EPA 8081
1031-07-8	Endosulfan Sulfate	7.8	U	ug/kg dry	7.8	7/09/10 13:07	7/23/10 12:16	EPA 8081
72-20-8	Endrin	6.2	U	ug/kg dry	6.2	7/09/10 13:07	7/23/10 12:16	EPA 8081
7421-93-4	Endrin aldehyde	11		ug/kg dry	7.8	7/09/10 13:07	7/23/10 12:16	EPA 8081
53494-70-5	Endrin ketone	7.8	U	ug/kg dry	7.8	7/09/10 13:07	7/23/10 12:16	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 12:16	EPA 8081
5566-34-7	gamma-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
76-44-8	Heptachlor	2.3	U	ug/kg dry	2.3	7/09/10 13:07	7/23/10 12:16	EPA 8081
1024-57-3	Heptachlor epoxide	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 12:16	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:07	7/23/10 12:16	EPA 8081
8001-35-2	Toxaphene	110	U, J, H-7	ug/kg dry	110	8/12/10 9:00	8/20/10 14:37	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-11

Lab ID: E102706-03

Station ID: RPAD11

Matrix: Surface Soil

Date Collected: 6/30/10 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.9	U	ug/kg dry	5.9	7/09/10 13:07	7/23/10 12:32	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	94		ug/kg dry	7.4	7/09/10 13:07	7/22/10 23:00	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	110		ug/kg dry	19	7/09/10 13:07	7/22/10 23:00	EPA 8081
309-00-2	Aldrin	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 12:32	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:07	7/23/10 12:32	EPA 8081
5103-71-9	alpha-Chlordane	8.2	U, D-4	ug/kg dry	8.2	7/09/10 13:07	7/23/10 12:32	EPA 8081
319-85-7	beta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 12:32	EPA 8081
319-86-8	delta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 12:32	EPA 8081
60-57-1	Dieldrin	49		ug/kg dry	7.4	7/09/10 13:07	7/22/10 23:00	EPA 8081
959-98-8	Endosulfan I (alpha)	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 12:32	EPA 8081
33213-65-9	Endosulfan II (beta)	5.9	U	ug/kg dry	5.9	7/09/10 13:07	7/23/10 12:32	EPA 8081
1031-07-8	Endosulfan Sulfate	7.4	U	ug/kg dry	7.4	7/09/10 13:07	7/23/10 12:32	EPA 8081
72-20-8	Endrin	5.9	U	ug/kg dry	5.9	7/09/10 13:07	7/23/10 12:32	EPA 8081
7421-93-4	Endrin aldehyde	7.4	U	ug/kg dry	7.4	7/09/10 13:07	7/23/10 12:32	EPA 8081
53494-70-5	Endrin ketone	7.4	U	ug/kg dry	7.4	7/09/10 13:07	7/23/10 12:32	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.5	U	ug/kg dry	1.5	7/09/10 13:07	7/23/10 12:32	EPA 8081
5566-34-7	gamma-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 12:32	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:07	7/23/10 12:32	EPA 8081
1024-57-3	Heptachlor epoxide	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 12:32	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:07	7/23/10 12:32	EPA 8081
8001-35-2	Toxaphene	390	J, H-7	ug/kg dry	200	8/12/10 9:00	8/20/10 18:46	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-12

Lab ID: E102706-04

Station ID: RPAD12

Matrix: Surface Soil

Date Collected: 6/30/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.9	U	ug/kg dry	6.9	7/09/10 13:07	7/23/10 9:50	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	12		ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	22		ug/kg dry	8.6	7/09/10 13:07	7/23/10 9:50	EPA 8081
309-00-2	Aldrin	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
319-84-6	alpha-BHC	3.4		ug/kg dry	1.7	7/09/10 13:07	7/23/10 9:50	EPA 8081
5103-71-9	alpha-Chlordane	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
319-85-7	beta-BHC	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
319-86-8	delta-BHC	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
60-57-1	Dieldrin	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
959-98-8	Endosulfan I (alpha)	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
33213-65-9	Endosulfan II (beta)	6.9	U	ug/kg dry	6.9	7/09/10 13:07	7/23/10 9:50	EPA 8081
1031-07-8	Endosulfan Sulfate	8.6	U	ug/kg dry	8.6	7/09/10 13:07	7/23/10 9:50	EPA 8081
72-20-8	Endrin	6.9	U	ug/kg dry	6.9	7/09/10 13:07	7/23/10 9:50	EPA 8081
7421-93-4	Endrin aldehyde	8.6	U	ug/kg dry	8.6	7/09/10 13:07	7/23/10 9:50	EPA 8081
53494-70-5	Endrin ketone	8.6	U	ug/kg dry	8.6	7/09/10 13:07	7/23/10 9:50	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.7	U	ug/kg dry	1.7	7/09/10 13:07	7/23/10 9:50	EPA 8081
5566-34-7	gamma-Chlordane	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
76-44-8	Heptachlor	2.6	U	ug/kg dry	2.6	7/09/10 13:07	7/23/10 9:50	EPA 8081
1024-57-3	Heptachlor epoxide	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 9:50	EPA 8081
72-43-5	Methoxychlor	17	U	ug/kg dry	17	7/09/10 13:07	7/23/10 9:50	EPA 8081
8001-35-2	Toxaphene	340	U	ug/kg dry	340	7/09/10 13:07	7/23/10 9:50	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-13

Lab ID: E102706-05

Station ID: RPAD13

Matrix: Surface Soil

Date Collected: 6/30/10 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.8	U	ug/kg dry	6.8	7/09/10 13:07	7/23/10 10:06	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	28		ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	22		ug/kg dry	8.5	7/09/10 13:07	7/23/10 10:06	EPA 8081
309-00-2	Aldrin	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
319-84-6	alpha-BHC	1.7	U	ug/kg dry	1.7	7/09/10 13:07	7/23/10 10:06	EPA 8081
5103-71-9	alpha-Chlordane	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
319-85-7	beta-BHC	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
319-86-8	delta-BHC	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
60-57-1	Dieldrin	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
959-98-8	Endosulfan I (alpha)	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
33213-65-9	Endosulfan II (beta)	6.8	U	ug/kg dry	6.8	7/09/10 13:07	7/23/10 10:06	EPA 8081
1031-07-8	Endosulfan Sulfate	8.5	U	ug/kg dry	8.5	7/09/10 13:07	7/23/10 10:06	EPA 8081
72-20-8	Endrin	6.8	U	ug/kg dry	6.8	7/09/10 13:07	7/23/10 10:06	EPA 8081
7421-93-4	Endrin aldehyde	8.5	U	ug/kg dry	8.5	7/09/10 13:07	7/23/10 10:06	EPA 8081
53494-70-5	Endrin ketone	8.5	U	ug/kg dry	8.5	7/09/10 13:07	7/23/10 10:06	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.7	U	ug/kg dry	1.7	7/09/10 13:07	7/23/10 10:06	EPA 8081
5566-34-7	gamma-Chlordane	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
76-44-8	Heptachlor	2.5	U	ug/kg dry	2.5	7/09/10 13:07	7/23/10 10:06	EPA 8081
1024-57-3	Heptachlor epoxide	3.4	U	ug/kg dry	3.4	7/09/10 13:07	7/23/10 10:06	EPA 8081
72-43-5	Methoxychlor	17	U	ug/kg dry	17	7/09/10 13:07	7/23/10 10:06	EPA 8081
8001-35-2	Toxaphene	340	U	ug/kg dry	340	7/09/10 13:07	7/23/10 10:06	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-14

Lab ID: E102706-06

Station ID: RPAD14

Matrix: Surface Soil

Date Collected: 6/30/10 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.4	U	ug/kg dry	6.4	7/09/10 13:07	7/23/10 10:22	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	64		ug/kg dry	8.0	7/09/10 13:07	7/23/10 23:49	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	60		ug/kg dry	8.0	7/09/10 13:07	7/23/10 10:22	EPA 8081
309-00-2	Aldrin	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 10:22	EPA 8081
5103-71-9	alpha-Chlordane	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
319-85-7	beta-BHC	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
319-86-8	delta-BHC	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
60-57-1	Dieldrin	9.3		ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
959-98-8	Endosulfan I (alpha)	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
33213-65-9	Endosulfan II (beta)	6.4	U	ug/kg dry	6.4	7/09/10 13:07	7/23/10 10:22	EPA 8081
1031-07-8	Endosulfan Sulfate	8.0	U	ug/kg dry	8.0	7/09/10 13:07	7/23/10 10:22	EPA 8081
72-20-8	Endrin	6.4	U	ug/kg dry	6.4	7/09/10 13:07	7/23/10 10:22	EPA 8081
7421-93-4	Endrin aldehyde	8.0	U	ug/kg dry	8.0	7/09/10 13:07	7/23/10 10:22	EPA 8081
53494-70-5	Endrin ketone	8.0	U	ug/kg dry	8.0	7/09/10 13:07	7/23/10 10:22	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 10:22	EPA 8081
5566-34-7	gamma-Chlordane	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
76-44-8	Heptachlor	2.4	U	ug/kg dry	2.4	7/09/10 13:07	7/23/10 10:22	EPA 8081
1024-57-3	Heptachlor epoxide	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 10:22	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:07	7/23/10 10:22	EPA 8081
8001-35-2	Toxaphene	320	U	ug/kg dry	320	7/09/10 13:07	7/23/10 10:22	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-15

Lab ID: E102706-07

Station ID: RPAD15

Matrix: Surface Soil

Date Collected: 6/30/10 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.2	U	ug/kg dry	6.2	7/09/10 13:07	7/23/10 10:39	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	7.6		ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	7.8	U	ug/kg dry	7.8	7/09/10 13:07	7/23/10 10:39	EPA 8081
309-00-2	Aldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 10:39	EPA 8081
5103-71-9	alpha-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
319-85-7	beta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
319-86-8	delta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
60-57-1	Dieldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
959-98-8	Endosulfan I (alpha)	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
33213-65-9	Endosulfan II (beta)	6.2	U	ug/kg dry	6.2	7/09/10 13:07	7/23/10 10:39	EPA 8081
1031-07-8	Endosulfan Sulfate	7.8	U	ug/kg dry	7.8	7/09/10 13:07	7/23/10 10:39	EPA 8081
72-20-8	Endrin	6.2	U	ug/kg dry	6.2	7/09/10 13:07	7/23/10 10:39	EPA 8081
7421-93-4	Endrin aldehyde	7.8	U	ug/kg dry	7.8	7/09/10 13:07	7/23/10 10:39	EPA 8081
53494-70-5	Endrin ketone	7.8	U	ug/kg dry	7.8	7/09/10 13:07	7/23/10 10:39	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 10:39	EPA 8081
5566-34-7	gamma-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
76-44-8	Heptachlor	2.3	U	ug/kg dry	2.3	7/09/10 13:07	7/23/10 10:39	EPA 8081
1024-57-3	Heptachlor epoxide	3.1	U	ug/kg dry	3.1	7/09/10 13:07	7/23/10 10:39	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:07	7/23/10 10:39	EPA 8081
8001-35-2	Toxaphene	310	U	ug/kg dry	310	7/09/10 13:07	7/23/10 10:39	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-20

Lab ID: E102706-08

Station ID: RPAD20

Matrix: Surface Soil

Date Collected: 6/29/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.1	U	ug/kg dry	6.1	7/09/10 13:07	7/23/10 10:55	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	4.5		ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	7.6	U	ug/kg dry	7.6	7/09/10 13:07	7/23/10 10:55	EPA 8081
309-00-2	Aldrin	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:07	7/23/10 10:55	EPA 8081
5103-71-9	alpha-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
319-85-7	beta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
319-86-8	delta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
60-57-1	Dieldrin	5.4	U, D-4	ug/kg dry	5.4	7/09/10 13:07	7/23/10 10:55	EPA 8081
959-98-8	Endosulfan I (alpha)	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
33213-65-9	Endosulfan II (beta)	6.1	U	ug/kg dry	6.1	7/09/10 13:07	7/23/10 10:55	EPA 8081
1031-07-8	Endosulfan Sulfate	7.6	U	ug/kg dry	7.6	7/09/10 13:07	7/23/10 10:55	EPA 8081
72-20-8	Endrin	6.1	U	ug/kg dry	6.1	7/09/10 13:07	7/23/10 10:55	EPA 8081
7421-93-4	Endrin aldehyde	8.0		ug/kg dry	7.6	7/09/10 13:07	7/23/10 10:55	EPA 8081
53494-70-5	Endrin ketone	7.6	U	ug/kg dry	7.6	7/09/10 13:07	7/23/10 10:55	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.5	U	ug/kg dry	1.5	7/09/10 13:07	7/23/10 10:55	EPA 8081
5566-34-7	gamma-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
76-44-8	Heptachlor	2.3	U	ug/kg dry	2.3	7/09/10 13:07	7/23/10 10:55	EPA 8081
1024-57-3	Heptachlor epoxide	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 10:55	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:07	7/23/10 10:55	EPA 8081
8001-35-2	Toxaphene	300	U	ug/kg dry	300	7/09/10 13:07	7/23/10 10:55	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-79

Lab ID: E102706-09

Station ID: RPAD20

Matrix: Surface Soil

Date Collected: 6/29/10 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.0	U	ug/kg dry	6.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	4.8		ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	9.2		ug/kg dry	7.6	7/09/10 13:07	7/23/10 11:11	EPA 8081
309-00-2	Aldrin	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:07	7/23/10 11:11	EPA 8081
5103-71-9	alpha-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
319-85-7	beta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
319-86-8	delta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
60-57-1	Dieldrin	5.0	U, D-4	ug/kg dry	5.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
959-98-8	Endosulfan I (alpha)	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
33213-65-9	Endosulfan II (beta)	6.0	U	ug/kg dry	6.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
1031-07-8	Endosulfan Sulfate	7.6	U	ug/kg dry	7.6	7/09/10 13:07	7/23/10 11:11	EPA 8081
72-20-8	Endrin	6.0	U	ug/kg dry	6.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
7421-93-4	Endrin aldehyde	7.6	U	ug/kg dry	7.6	7/09/10 13:07	7/23/10 11:11	EPA 8081
53494-70-5	Endrin ketone	7.6	U	ug/kg dry	7.6	7/09/10 13:07	7/23/10 11:11	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.5	U	ug/kg dry	1.5	7/09/10 13:07	7/23/10 11:11	EPA 8081
5566-34-7	gamma-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
76-44-8	Heptachlor	2.3	U	ug/kg dry	2.3	7/09/10 13:07	7/23/10 11:11	EPA 8081
1024-57-3	Heptachlor epoxide	3.0	U	ug/kg dry	3.0	7/09/10 13:07	7/23/10 11:11	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:07	7/23/10 11:11	EPA 8081
8001-35-2	Toxaphene	110	U, J, H-7	ug/kg dry	110	8/12/10 9:00	8/20/10 15:16	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-21

Lab ID: E102706-10

Station ID: RPAD21

Matrix: Surface Soil

Date Collected: 6/30/10 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 12:30	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	19		ug/kg dry	6.1	7/07/10 12:58	7/16/10 18:01	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	18		ug/kg dry	3.0	7/07/10 12:58	7/20/10 12:30	EPA 8081
309-00-2	Aldrin	4.0	U, D-4	ug/kg dry	4.0	7/07/10 12:58	7/20/10 12:30	EPA 8081
319-84-6	alpha-BHC	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 12:30	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
319-86-8	delta-BHC	1.3		ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
60-57-1	Dieldrin	4.7		ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 12:30	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 12:30	EPA 8081
72-20-8	Endrin	3.1		ug/kg dry	2.4	7/07/10 12:58	7/20/10 12:30	EPA 8081
7421-93-4	Endrin aldehyde	3.1		ug/kg dry	3.0	7/07/10 12:58	7/20/10 12:30	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 12:30	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.0	U, D-4	ug/kg dry	2.0	7/07/10 12:58	7/20/10 12:30	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
76-44-8	Heptachlor	0.91	U	ug/kg dry	0.91	7/07/10 12:58	7/20/10 12:30	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:30	EPA 8081
72-43-5	Methoxychlor	6.1	U	ug/kg dry	6.1	7/07/10 12:58	7/20/10 12:30	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 12:30	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-22

Lab ID: E102706-11

Station ID: RPAD22

Matrix: Surface Soil

Date Collected: 6/30/10 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 12:48	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	8.7		ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	9.3		ug/kg dry	3.1	7/07/10 12:58	7/20/10 12:48	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
319-84-6	alpha-BHC	0.62	U	ug/kg dry	0.62	7/07/10 12:58	7/20/10 12:48	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
319-85-7	beta-BHC	8.1	U, D-4	ug/kg dry	8.1	7/07/10 12:58	7/20/10 12:48	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
60-57-1	Dieldrin	3.1		ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 12:48	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 12:48	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 12:48	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 12:48	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 12:48	EPA 8081
58-89-9	gamma-BHC [Lindane]	2.4	U, D-4	ug/kg dry	2.4	7/07/10 12:58	7/20/10 12:48	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
76-44-8	Heptachlor	0.93	U	ug/kg dry	0.93	7/07/10 12:58	7/20/10 12:48	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
72-43-5	Methoxychlor	6.2	U	ug/kg dry	6.2	7/07/10 12:58	7/20/10 12:48	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 12:48	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-25

Lab ID: E102706-12

Station ID: RPAD25

Matrix: Surface Soil

Date Collected: 6/30/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:06	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	6.3		ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	12		ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:06	EPA 8081
309-00-2	Aldrin	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
319-84-6	alpha-BHC	0.63	U	ug/kg dry	0.63	7/07/10 12:58	7/20/10 13:06	EPA 8081
5103-71-9	alpha-Chlordane	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
319-85-7	beta-BHC	9.6	U, D-4	ug/kg dry	9.6	7/07/10 12:58	7/20/10 13:06	EPA 8081
319-86-8	delta-BHC	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
60-57-1	Dieldrin	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
959-98-8	Endosulfan I (alpha)	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:06	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:06	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:06	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:06	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:06	EPA 8081
58-89-9	gamma-BHC [Lindane]	5.9	U, D-4	ug/kg dry	5.9	7/07/10 12:58	7/20/10 13:06	EPA 8081
5566-34-7	gamma-Chlordane	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
76-44-8	Heptachlor	0.94	U	ug/kg dry	0.94	7/07/10 12:58	7/20/10 13:06	EPA 8081
1024-57-3	Heptachlor epoxide	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
72-43-5	Methoxychlor	6.3	U	ug/kg dry	6.3	7/07/10 12:58	7/20/10 13:06	EPA 8081
8001-35-2	Toxaphene	130	U	ug/kg dry	130	7/07/10 12:58	7/20/10 13:06	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-26

Lab ID: E102706-13

Station ID: RPAD26

Matrix: Surface Soil

Date Collected: 6/30/10 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	8.4	U, D-4	ug/kg dry	8.4	7/07/10 12:58	7/20/10 18:12	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	70		ug/kg dry	6.1	7/07/10 12:58	7/16/10 18:55	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	61		ug/kg dry	15	7/07/10 12:58	7/16/10 18:55	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
319-84-6	alpha-BHC	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 18:12	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
60-57-1	Dieldrin	14		ug/kg dry	6.1	7/07/10 12:58	7/16/10 18:55	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 18:12	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 18:12	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 18:12	EPA 8081
7421-93-4	Endrin aldehyde	7.9	U, D-4	ug/kg dry	7.9	7/07/10 12:58	7/20/10 18:12	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 18:12	EPA 8081
58-89-9	gamma-BHC [Lindane]	4.4	U, D-4	ug/kg dry	4.4	7/07/10 12:58	7/20/10 18:12	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
76-44-8	Heptachlor	0.91	U	ug/kg dry	0.91	7/07/10 12:58	7/20/10 18:12	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:12	EPA 8081
72-43-5	Methoxychlor	6.1	U	ug/kg dry	6.1	7/07/10 12:58	7/20/10 18:12	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 18:12	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-27

Lab ID: E102706-14

Station ID: RPAD27

Matrix: Surface Soil

Date Collected: 6/30/10 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 13:24	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	19		ug/kg dry	6.1	7/07/10 12:58	7/16/10 19:12	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	24		ug/kg dry	3.0	7/07/10 12:58	7/20/10 13:24	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
319-84-6	alpha-BHC	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 13:24	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
60-57-1	Dieldrin	1.6		ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 13:24	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 13:24	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 13:24	EPA 8081
7421-93-4	Endrin aldehyde	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 13:24	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 13:24	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 13:24	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
76-44-8	Heptachlor	0.91	U	ug/kg dry	0.91	7/07/10 12:58	7/20/10 13:24	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:24	EPA 8081
72-43-5	Methoxychlor	6.1	U	ug/kg dry	6.1	7/07/10 12:58	7/20/10 13:24	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 13:24	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-33

Lab ID: E102706-15

Station ID: RPAD33

Matrix: Surface Soil

Date Collected: 6/30/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:41	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	2.9		ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	4.6		ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:41	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
319-84-6	alpha-BHC	0.62	U	ug/kg dry	0.62	7/07/10 12:58	7/20/10 13:41	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
319-85-7	beta-BHC	7.7	U, D-4	ug/kg dry	7.7	7/07/10 12:58	7/20/10 13:41	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
60-57-1	Dieldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:41	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:41	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:41	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:41	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:41	EPA 8081
58-89-9	gamma-BHC [Lindane]	6.0	U, D-4	ug/kg dry	6.0	7/07/10 12:58	7/20/10 13:41	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
76-44-8	Heptachlor	0.93	U	ug/kg dry	0.93	7/07/10 12:58	7/20/10 13:41	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
72-43-5	Methoxychlor	6.2	U	ug/kg dry	6.2	7/07/10 12:58	7/20/10 13:41	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 13:41	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-34

Lab ID: E102706-16

Station ID: RPAD34

Matrix: Surface Soil

Date Collected: 6/30/10 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:59	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	10		ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	13		ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:59	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
319-84-6	alpha-BHC	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 13:59	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
319-85-7	beta-BHC	9.7	U, D-4	ug/kg dry	9.7	7/07/10 12:58	7/20/10 13:59	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
60-57-1	Dieldrin	1.9		ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:59	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:59	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 13:59	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:59	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 13:59	EPA 8081
58-89-9	gamma-BHC [Lindane]	5.0	U, D-4	ug/kg dry	5.0	7/07/10 12:58	7/20/10 13:59	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
76-44-8	Heptachlor	0.92	U	ug/kg dry	0.92	7/07/10 12:58	7/20/10 13:59	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 13:59	EPA 8081
72-43-5	Methoxychlor	6.1	U	ug/kg dry	6.1	7/07/10 12:58	7/20/10 13:59	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 13:59	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-35

Lab ID: E102706-17

Station ID: RPAD35

Matrix: Surface Soil

Date Collected: 6/30/10 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 18:47	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	41		ug/kg dry	5.9	7/07/10 12:58	7/16/10 20:06	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	48		ug/kg dry	15	7/07/10 12:58	7/16/10 20:06	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:47	EPA 8081
319-84-6	alpha-BHC	0.59	U	ug/kg dry	0.59	7/07/10 12:58	7/20/10 18:47	EPA 8081
5103-71-9	alpha-Chlordane	14	U, D-4	ug/kg dry	14	7/07/10 12:58	7/20/10 18:47	EPA 8081
319-85-7	beta-BHC	17	U, D-4	ug/kg dry	17	7/07/10 12:58	7/20/10 18:47	EPA 8081
319-86-8	delta-BHC	1.4		ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:47	EPA 8081
60-57-1	Dieldrin	11		ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:47	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:47	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 18:47	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 18:47	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 18:47	EPA 8081
7421-93-4	Endrin aldehyde	4.3		ug/kg dry	3.0	7/07/10 12:58	7/20/10 18:47	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 18:47	EPA 8081
58-89-9	gamma-BHC [Lindane]	6.9	U, D-4	ug/kg dry	6.9	7/07/10 12:58	7/20/10 18:47	EPA 8081
5566-34-7	gamma-Chlordane	1.9		ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:47	EPA 8081
76-44-8	Heptachlor	2.7	U, D-4	ug/kg dry	2.7	7/07/10 12:58	7/20/10 18:47	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 18:47	EPA 8081
72-43-5	Methoxychlor	5.9	U	ug/kg dry	5.9	7/07/10 12:58	7/20/10 18:47	EPA 8081
8001-35-2	Toxaphene	210	U, D-4	ug/kg dry	210	7/07/10 12:58	7/20/10 18:47	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-40**

Lab ID: **E102706-18**

Station ID: **RPAD40**

Matrix: Surface Soil

Date Collected: 6/30/10 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 21:10	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	51		ug/kg dry	5.9	7/07/10 12:58	7/16/10 20:24	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	64		ug/kg dry	15	7/07/10 12:58	7/16/10 20:24	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
319-84-6	alpha-BHC	0.59	U	ug/kg dry	0.59	7/07/10 12:58	7/20/10 21:10	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
319-86-8	delta-BHC	1.6		ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
60-57-1	Dieldrin	9.2		ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
33213-65-9	Endosulfan II (beta)	3.0		ug/kg dry	2.4	7/07/10 12:58	7/20/10 21:10	EPA 8081
1031-07-8	Endosulfan Sulfate	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 21:10	EPA 8081
72-20-8	Endrin	18	U, D-4	ug/kg dry	18	7/07/10 12:58	7/20/10 21:10	EPA 8081
7421-93-4	Endrin aldehyde	26	U, D-4	ug/kg dry	26	7/07/10 12:58	7/20/10 21:10	EPA 8081
53494-70-5	Endrin ketone	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 21:10	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.5		ug/kg dry	0.59	7/07/10 12:58	7/20/10 21:10	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
76-44-8	Heptachlor	0.88	U	ug/kg dry	0.88	7/07/10 12:58	7/20/10 21:10	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:10	EPA 8081
72-43-5	Methoxychlor	17	U, D-4	ug/kg dry	17	7/07/10 12:58	7/20/10 21:10	EPA 8081
8001-35-2	Toxaphene	480	U, D-4	ug/kg dry	480	7/07/10 12:58	7/20/10 21:10	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-81

Lab ID: E102706-19

Station ID: RPAD40

Matrix: Surface Soil

Date Collected: 6/30/10 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 21:45	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	48		ug/kg dry	5.9	7/07/10 12:58	7/16/10 20:42	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	58		ug/kg dry	15	7/07/10 12:58	7/16/10 20:42	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
319-84-6	alpha-BHC	0.59	U	ug/kg dry	0.59	7/07/10 12:58	7/20/10 21:45	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
319-86-8	delta-BHC	1.4		ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
60-57-1	Dieldrin	8.3		ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
33213-65-9	Endosulfan II (beta)	2.6		ug/kg dry	2.4	7/07/10 12:58	7/20/10 21:45	EPA 8081
1031-07-8	Endosulfan Sulfate	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 21:45	EPA 8081
72-20-8	Endrin	16	U, D-4	ug/kg dry	16	7/07/10 12:58	7/20/10 21:45	EPA 8081
7421-93-4	Endrin aldehyde	24	U, D-4	ug/kg dry	24	7/07/10 12:58	7/20/10 21:45	EPA 8081
53494-70-5	Endrin ketone	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 21:45	EPA 8081
58-89-9	gamma-BHC [Lindane]	17	U, D-4	ug/kg dry	17	7/07/10 12:58	7/20/10 21:45	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
76-44-8	Heptachlor	0.88	U	ug/kg dry	0.88	7/07/10 12:58	7/20/10 21:45	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 21:45	EPA 8081
72-43-5	Methoxychlor	18	U, D-4	ug/kg dry	18	7/07/10 12:58	7/20/10 21:45	EPA 8081
8001-35-2	Toxaphene	440	U, D-4	ug/kg dry	440	7/07/10 12:58	7/20/10 21:45	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-44

Lab ID: E102706-20

Station ID: RPAD44

Matrix: Surface Soil

Date Collected: 6/30/10 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 19:23	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	35		ug/kg dry	6.2	7/07/10 12:58	7/16/10 20:59	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	27		ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:23	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
319-84-6	alpha-BHC	0.62	U	ug/kg dry	0.62	7/07/10 12:58	7/20/10 19:23	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
319-85-7	beta-BHC	13	U, D-4	ug/kg dry	13	7/07/10 12:58	7/20/10 19:23	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
60-57-1	Dieldrin	8.4		ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 19:23	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:23	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 19:23	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:23	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:23	EPA 8081
58-89-9	gamma-BHC [Lindane]	7.3	U, D-4	ug/kg dry	7.3	7/07/10 12:58	7/20/10 19:23	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
76-44-8	Heptachlor	0.93	U	ug/kg dry	0.93	7/07/10 12:58	7/20/10 19:23	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
72-43-5	Methoxychlor	6.2	U	ug/kg dry	6.2	7/07/10 12:58	7/20/10 19:23	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 19:23	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-45

Lab ID: E102706-21

Station ID: RPAD45

Matrix: Surface Soil

Date Collected: 6/30/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 14:22	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	12		ug/kg dry	6.2	7/07/10 12:58	7/16/10 21:17	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	12		ug/kg dry	3.1	7/07/10 12:58	7/20/10 14:22	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
319-84-6	alpha-BHC	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 14:22	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
60-57-1	Dieldrin	3.1	U, D-4	ug/kg dry	3.1	7/07/10 12:58	7/20/10 14:22	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 14:22	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 14:22	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 14:22	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 14:22	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 14:22	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 14:22	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
76-44-8	Heptachlor	0.92	U	ug/kg dry	0.92	7/07/10 12:58	7/20/10 14:22	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:22	EPA 8081
72-43-5	Methoxychlor	6.1	U	ug/kg dry	6.1	7/07/10 12:58	7/20/10 14:22	EPA 8081
8001-35-2	Toxaphene	160	U, D-4	ug/kg dry	160	7/07/10 12:58	7/20/10 14:22	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-53

Lab ID: E102706-22

Station ID: RPAD53

Matrix: Surface Soil

Date Collected: 6/30/10 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 14:45	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	7.3		ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	11		ug/kg dry	3.0	7/07/10 12:58	7/20/10 14:45	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
319-84-6	alpha-BHC	0.60	U	ug/kg dry	0.60	7/07/10 12:58	7/20/10 14:45	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
60-57-1	Dieldrin	1.4		ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 14:45	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 14:45	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 14:45	EPA 8081
7421-93-4	Endrin aldehyde	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 14:45	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 14:45	EPA 8081
58-89-9	gamma-BHC [Lindane]	4.5	U, D-4	ug/kg dry	4.5	7/07/10 12:58	7/20/10 14:45	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
76-44-8	Heptachlor	0.91	U	ug/kg dry	0.91	7/07/10 12:58	7/20/10 14:45	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 14:45	EPA 8081
72-43-5	Methoxychlor	6.0	U	ug/kg dry	6.0	7/07/10 12:58	7/20/10 14:45	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 14:45	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-54

Lab ID: E102706-23

Station ID: RPAD54

Matrix: Surface Soil

Date Collected: 6/30/10 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:03	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	1.4	J, Q-4	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	3.5	J, Q-4	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:03	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
319-84-6	alpha-BHC	0.59	U	ug/kg dry	0.59	7/07/10 12:58	7/20/10 15:03	EPA 8081
5103-71-9	alpha-Chlordane	27	U, D-4	ug/kg dry	27	7/07/10 12:58	7/20/10 15:03	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
60-57-1	Dieldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:03	EPA 8081
1031-07-8	Endosulfan Sulfate	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:03	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:03	EPA 8081
7421-93-4	Endrin aldehyde	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:03	EPA 8081
53494-70-5	Endrin ketone	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:03	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.59	U	ug/kg dry	0.59	7/07/10 12:58	7/20/10 15:03	EPA 8081
5566-34-7	gamma-Chlordane	2.3	U, D-4	ug/kg dry	2.3	7/07/10 12:58	7/20/10 15:03	EPA 8081
76-44-8	Heptachlor	0.88	U	ug/kg dry	0.88	7/07/10 12:58	7/20/10 15:03	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:03	EPA 8081
72-43-5	Methoxychlor	5.9	U	ug/kg dry	5.9	7/07/10 12:58	7/20/10 15:03	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 15:03	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-55

Lab ID: E102706-24

Station ID: RPAD55

Matrix: Surface Soil

Date Collected: 6/30/10 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:21	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	2.7		ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	3.9		ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:21	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
319-84-6	alpha-BHC	0.59	U	ug/kg dry	0.59	7/07/10 12:58	7/20/10 15:21	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
60-57-1	Dieldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:21	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:21	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:21	EPA 8081
7421-93-4	Endrin aldehyde	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:21	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:21	EPA 8081
58-89-9	gamma-BHC [Lindane]	3.8	U, D-4	ug/kg dry	3.8	7/07/10 12:58	7/20/10 15:21	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
76-44-8	Heptachlor	0.89	U	ug/kg dry	0.89	7/07/10 12:58	7/20/10 15:21	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:21	EPA 8081
72-43-5	Methoxychlor	5.9	U	ug/kg dry	5.9	7/07/10 12:58	7/20/10 15:21	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 15:21	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-56

Lab ID: E102706-25

Station ID: RPAD56

Matrix: Surface Soil

Date Collected: 6/30/10 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:38	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	4.0		ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	8.9		ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:38	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
319-84-6	alpha-BHC	0.61	U	ug/kg dry	0.61	7/07/10 12:58	7/20/10 15:38	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
319-85-7	beta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
60-57-1	Dieldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
33213-65-9	Endosulfan II (beta)	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:38	EPA 8081
1031-07-8	Endosulfan Sulfate	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:38	EPA 8081
72-20-8	Endrin	2.4	U	ug/kg dry	2.4	7/07/10 12:58	7/20/10 15:38	EPA 8081
7421-93-4	Endrin aldehyde	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:38	EPA 8081
53494-70-5	Endrin ketone	3.0	U	ug/kg dry	3.0	7/07/10 12:58	7/20/10 15:38	EPA 8081
58-89-9	gamma-BHC [Lindane]	5.9	U, D-4	ug/kg dry	5.9	7/07/10 12:58	7/20/10 15:38	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
76-44-8	Heptachlor	0.91	U	ug/kg dry	0.91	7/07/10 12:58	7/20/10 15:38	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:38	EPA 8081
72-43-5	Methoxychlor	6.1	U	ug/kg dry	6.1	7/07/10 12:58	7/20/10 15:38	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 15:38	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-63

Lab ID: E102706-26

Station ID: RPAD63

Matrix: Surface Soil

Date Collected: 6/30/10 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.3	U	ug/kg dry	2.3	7/07/10 12:58	7/20/10 17:34	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	18		ug/kg dry	5.7	7/07/10 12:58	7/16/10 15:38	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	24		ug/kg dry	2.8	7/07/10 12:58	7/20/10 17:34	EPA 8081
309-00-2	Aldrin	1.1	U	ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
319-84-6	alpha-BHC	0.57	U	ug/kg dry	0.57	7/07/10 12:58	7/20/10 17:34	EPA 8081
5103-71-9	alpha-Chlordane	1.1	U	ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
319-85-7	beta-BHC	5.4	U, D-4	ug/kg dry	5.4	7/07/10 12:58	7/20/10 17:34	EPA 8081
319-86-8	delta-BHC	1.5		ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
60-57-1	Dieldrin	1.5		ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
959-98-8	Endosulfan I (alpha)	1.1	U	ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
33213-65-9	Endosulfan II (beta)	2.3	U	ug/kg dry	2.3	7/07/10 12:58	7/20/10 17:34	EPA 8081
1031-07-8	Endosulfan Sulfate	2.8	U	ug/kg dry	2.8	7/07/10 12:58	7/20/10 17:34	EPA 8081
72-20-8	Endrin	2.3	U	ug/kg dry	2.3	7/07/10 12:58	7/20/10 17:34	EPA 8081
7421-93-4	Endrin aldehyde	2.8	U	ug/kg dry	2.8	7/07/10 12:58	7/20/10 17:34	EPA 8081
53494-70-5	Endrin ketone	2.8	U	ug/kg dry	2.8	7/07/10 12:58	7/20/10 17:34	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.8	U	ug/kg dry	1.8	7/07/10 12:58	7/20/10 17:34	EPA 8081
5566-34-7	gamma-Chlordane	1.1	U	ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
76-44-8	Heptachlor	0.85	U	ug/kg dry	0.85	7/07/10 12:58	7/20/10 17:34	EPA 8081
1024-57-3	Heptachlor epoxide	1.1	U	ug/kg dry	1.1	7/07/10 12:58	7/20/10 17:34	EPA 8081
72-43-5	Methoxychlor	5.7	U	ug/kg dry	5.7	7/07/10 12:58	7/20/10 17:34	EPA 8081
8001-35-2	Toxaphene	110	U	ug/kg dry	110	7/07/10 12:58	7/20/10 17:34	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-64

Lab ID: E102706-27

Station ID: RPAD64

Matrix: Surface Soil

Date Collected: 6/30/10 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 19:59	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	28		ug/kg dry	6.2	7/07/10 12:58	7/16/10 15:56	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	25		ug/kg dry	15	7/07/10 12:58	7/16/10 15:56	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
319-84-6	alpha-BHC	0.62	U	ug/kg dry	0.62	7/07/10 12:58	7/20/10 19:59	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
319-85-7	beta-BHC	13	U, D-4	ug/kg dry	13	7/07/10 12:58	7/20/10 19:59	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
60-57-1	Dieldrin	3.2	U, D-4	ug/kg dry	3.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 19:59	EPA 8081
1031-07-8	Endosulfan Sulfate	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:59	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 19:59	EPA 8081
7421-93-4	Endrin aldehyde	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:59	EPA 8081
53494-70-5	Endrin ketone	3.1	U	ug/kg dry	3.1	7/07/10 12:58	7/20/10 19:59	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.62	U	ug/kg dry	0.62	7/07/10 12:58	7/20/10 19:59	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
76-44-8	Heptachlor	0.93	U	ug/kg dry	0.93	7/07/10 12:58	7/20/10 19:59	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
72-43-5	Methoxychlor	6.2	U	ug/kg dry	6.2	7/07/10 12:58	7/20/10 19:59	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 19:59	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-65

Lab ID: E102706-28

Station ID: RPAD65

Matrix: Surface Soil

Date Collected: 6/30/10 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	2.3	U	ug/kg dry	2.3	7/07/10 12:58	7/20/10 15:56	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	4.5		ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	11		ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:56	EPA 8081
309-00-2	Aldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
319-84-6	alpha-BHC	0.58	U	ug/kg dry	0.58	7/07/10 12:58	7/20/10 15:56	EPA 8081
5103-71-9	alpha-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
319-85-7	beta-BHC	7.5	U, D-4	ug/kg dry	7.5	7/07/10 12:58	7/20/10 15:56	EPA 8081
319-86-8	delta-BHC	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
60-57-1	Dieldrin	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
959-98-8	Endosulfan I (alpha)	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
33213-65-9	Endosulfan II (beta)	2.3	U	ug/kg dry	2.3	7/07/10 12:58	7/20/10 15:56	EPA 8081
1031-07-8	Endosulfan Sulfate	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:56	EPA 8081
72-20-8	Endrin	2.3	U	ug/kg dry	2.3	7/07/10 12:58	7/20/10 15:56	EPA 8081
7421-93-4	Endrin aldehyde	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:56	EPA 8081
53494-70-5	Endrin ketone	2.9	U	ug/kg dry	2.9	7/07/10 12:58	7/20/10 15:56	EPA 8081
58-89-9	gamma-BHC [Lindane]	0.58	U	ug/kg dry	0.58	7/07/10 12:58	7/20/10 15:56	EPA 8081
5566-34-7	gamma-Chlordane	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
76-44-8	Heptachlor	0.87	U	ug/kg dry	0.87	7/07/10 12:58	7/20/10 15:56	EPA 8081
1024-57-3	Heptachlor epoxide	1.2	U	ug/kg dry	1.2	7/07/10 12:58	7/20/10 15:56	EPA 8081
72-43-5	Methoxychlor	5.8	U	ug/kg dry	5.8	7/07/10 12:58	7/20/10 15:56	EPA 8081
8001-35-2	Toxaphene	120	U	ug/kg dry	120	7/07/10 12:58	7/20/10 15:56	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-66

Lab ID: E102706-29

Station ID: RPAD66

Matrix: Surface Soil

Date Collected: 6/30/10 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	4.6	U, D-4	ug/kg dry	4.6	7/07/10 12:58	7/20/10 20:34	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	11		ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	120		ug/kg dry	16	7/07/10 12:58	7/16/10 16:32	EPA 8081
309-00-2	Aldrin	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
319-84-6	alpha-BHC	0.63	U	ug/kg dry	0.63	7/07/10 12:58	7/20/10 20:34	EPA 8081
5103-71-9	alpha-Chlordane	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
319-85-7	beta-BHC	9.7	U, D-4	ug/kg dry	9.7	7/07/10 12:58	7/20/10 20:34	EPA 8081
319-86-8	delta-BHC	2.1	U	ug/kg dry	2.1	7/07/10 12:58	7/20/10 20:34	EPA 8081
60-57-1	Dieldrin	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
959-98-8	Endosulfan I (alpha)	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
33213-65-9	Endosulfan II (beta)	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 20:34	EPA 8081
1031-07-8	Endosulfan Sulfate	3.2	U	ug/kg dry	3.2	7/07/10 12:58	7/20/10 20:34	EPA 8081
72-20-8	Endrin	2.5	U	ug/kg dry	2.5	7/07/10 12:58	7/20/10 20:34	EPA 8081
7421-93-4	Endrin aldehyde	3.2	U	ug/kg dry	3.2	7/07/10 12:58	7/20/10 20:34	EPA 8081
53494-70-5	Endrin ketone	3.2	U	ug/kg dry	3.2	7/07/10 12:58	7/20/10 20:34	EPA 8081
58-89-9	gamma-BHC [Lindane]	5.7	U, D-4	ug/kg dry	5.7	7/07/10 12:58	7/20/10 20:34	EPA 8081
5566-34-7	gamma-Chlordane	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
76-44-8	Heptachlor	0.95	U	ug/kg dry	0.95	7/07/10 12:58	7/20/10 20:34	EPA 8081
1024-57-3	Heptachlor epoxide	1.3	U	ug/kg dry	1.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
72-43-5	Methoxychlor	6.3	U	ug/kg dry	6.3	7/07/10 12:58	7/20/10 20:34	EPA 8081
8001-35-2	Toxaphene	130	U	ug/kg dry	130	7/07/10 12:58	7/20/10 20:34	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-67

Lab ID: E102706-30

Station ID: RPAD67

Matrix: Surface Soil

Date Collected: 6/30/10 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.8	U	ug/kg dry	6.8	7/09/10 13:03	7/23/10 18:25	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	10		ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	17		ug/kg dry	8.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
309-00-2	Aldrin	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
319-84-6	alpha-BHC	1.7	U	ug/kg dry	1.7	7/09/10 13:03	7/23/10 18:25	EPA 8081
5103-71-9	alpha-Chlordane	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
319-85-7	beta-BHC	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
319-86-8	delta-BHC	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
60-57-1	Dieldrin	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
959-98-8	Endosulfan I (alpha)	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
33213-65-9	Endosulfan II (beta)	6.8	U	ug/kg dry	6.8	7/09/10 13:03	7/23/10 18:25	EPA 8081
1031-07-8	Endosulfan Sulfate	8.4	U	ug/kg dry	8.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
72-20-8	Endrin	6.8	U	ug/kg dry	6.8	7/09/10 13:03	7/23/10 18:25	EPA 8081
7421-93-4	Endrin aldehyde	8.4	U	ug/kg dry	8.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
53494-70-5	Endrin ketone	8.4	U	ug/kg dry	8.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
58-89-9	gamma-BHC (Lindane)	4.2	U, D-4	ug/kg dry	4.2	7/09/10 13:03	7/23/10 18:25	EPA 8081
5566-34-7	gamma-Chlordane	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
76-44-8	Heptachlor	2.5	U	ug/kg dry	2.5	7/09/10 13:03	7/23/10 18:25	EPA 8081
1024-57-3	Heptachlor epoxide	3.4	U	ug/kg dry	3.4	7/09/10 13:03	7/23/10 18:25	EPA 8081
72-43-5	Methoxychlor	17	U	ug/kg dry	17	7/09/10 13:03	7/23/10 18:25	EPA 8081
8001-35-2	Toxaphene	340	U	ug/kg dry	340	7/09/10 13:03	7/23/10 18:25	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-76

Lab ID: E102706-31

Station ID: RPAD76

Matrix: Surface Soil

Date Collected: 6/30/10 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 18:42	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	7.6		ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	21		ug/kg dry	7.8	7/09/10 13:03	7/23/10 18:42	EPA 8081
309-00-2	Aldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:03	7/23/10 18:42	EPA 8081
5103-71-9	alpha-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
319-85-7	beta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
319-86-8	delta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
60-57-1	Dieldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
959-98-8	Endosulfan I (alpha)	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
33213-65-9	Endosulfan II (beta)	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 18:42	EPA 8081
1031-07-8	Endosulfan Sulfate	7.8	U	ug/kg dry	7.8	7/09/10 13:03	7/23/10 18:42	EPA 8081
72-20-8	Endrin	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 18:42	EPA 8081
7421-93-4	Endrin aldehyde	7.8	U	ug/kg dry	7.8	7/09/10 13:03	7/23/10 18:42	EPA 8081
53494-70-5	Endrin ketone	7.8	U	ug/kg dry	7.8	7/09/10 13:03	7/23/10 18:42	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.6	U	ug/kg dry	1.6	7/09/10 13:03	7/23/10 18:42	EPA 8081
5566-34-7	gamma-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
76-44-8	Heptachlor	2.3	U	ug/kg dry	2.3	7/09/10 13:03	7/23/10 18:42	EPA 8081
1024-57-3	Heptachlor epoxide	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:42	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:03	7/23/10 18:42	EPA 8081
8001-35-2	Toxaphene	310	U	ug/kg dry	310	7/09/10 13:03	7/23/10 18:42	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-02

Lab ID: E102707-01

Station ID: RPAD02

Matrix: Surface Soil

Date Collected: 7/1/10 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 18:58	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	4.8		ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	9.7		ug/kg dry	7.9	7/09/10 13:03	7/23/10 18:58	EPA 8081
309-00-2	Aldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:03	7/23/10 18:58	EPA 8081
5103-71-9	alpha-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
319-85-7	beta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
319-86-8	delta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
60-57-1	Dieldrin	4.9		ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
959-98-8	Endosulfan I (alpha)	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
33213-65-9	Endosulfan II (beta)	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 18:58	EPA 8081
1031-07-8	Endosulfan Sulfate	7.9	U	ug/kg dry	7.9	7/09/10 13:03	7/23/10 18:58	EPA 8081
72-20-8	Endrin	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 18:58	EPA 8081
7421-93-4	Endrin aldehyde	7.9	U	ug/kg dry	7.9	7/09/10 13:03	7/23/10 18:58	EPA 8081
53494-70-5	Endrin ketone	7.9	U	ug/kg dry	7.9	7/09/10 13:03	7/23/10 18:58	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.0	U, D-4	ug/kg dry	3.0	7/09/10 13:03	7/23/10 18:58	EPA 8081
5566-34-7	gamma-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
76-44-8	Heptachlor	2.4	U	ug/kg dry	2.4	7/09/10 13:03	7/23/10 18:58	EPA 8081
1024-57-3	Heptachlor epoxide	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 18:58	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:03	7/23/10 18:58	EPA 8081
8001-35-2	Toxaphene	310	U	ug/kg dry	310	7/09/10 13:03	7/23/10 18:58	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-03**

Lab ID: **E102707-02**

Station ID: **RPAD03**

Matrix: Surface Soil

Date Collected: 7/1/10 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 19:15	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	20		ug/kg dry	7.8	7/09/10 13:03	7/15/10 20:38	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	18		ug/kg dry	7.8	7/09/10 13:03	7/23/10 19:15	EPA 8081
309-00-2	Aldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:03	7/23/10 19:15	EPA 8081
5103-71-9	alpha-Chlordane	25	U, D-4	ug/kg dry	25	7/09/10 13:03	7/23/10 19:15	EPA 8081
319-85-7	beta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
319-86-8	delta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
60-57-1	Dieldrin	52		ug/kg dry	7.8	7/09/10 13:03	7/15/10 20:38	EPA 8081
959-98-8	Endosulfan I (alpha)	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
33213-65-9	Endosulfan II (beta)	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 19:15	EPA 8081
1031-07-8	Endosulfan Sulfate	7.8	U	ug/kg dry	7.8	7/09/10 13:03	7/23/10 19:15	EPA 8081
72-20-8	Endrin	6.3	U	ug/kg dry	6.3	7/09/10 13:03	7/23/10 19:15	EPA 8081
7421-93-4	Endrin aldehyde	7.8	U	ug/kg dry	7.8	7/09/10 13:03	7/23/10 19:15	EPA 8081
53494-70-5	Endrin ketone	7.8	U	ug/kg dry	7.8	7/09/10 13:03	7/23/10 19:15	EPA 8081
58-89-9	gamma-BHC (Lindane)	2.1	U, D-4	ug/kg dry	2.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
5566-34-7	gamma-Chlordane	4.1		ug/kg dry	3.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
76-44-8	Heptachlor	2.4	U	ug/kg dry	2.4	7/09/10 13:03	7/23/10 19:15	EPA 8081
1024-57-3	Heptachlor epoxide	3.2		ug/kg dry	3.1	7/09/10 13:03	7/23/10 19:15	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:03	7/23/10 19:15	EPA 8081
8001-35-2	Toxaphene	310	U	ug/kg dry	310	7/09/10 13:03	7/23/10 19:15	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-09

Lab ID: E102707-03

Station ID: RPAD09

Matrix: Surface Soil

Date Collected: 7/1/10 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 20:55	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	84		ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	84		ug/kg dry	19	7/09/10 13:03	7/15/10 20:55	EPA 8081
309-00-2	Aldrin	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
319-84-6	alpha-BHC	3.8	U	ug/kg dry	3.8	7/09/10 13:03	7/15/10 20:55	EPA 8081
5103-71-9	alpha-Chlordane	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
319-85-7	beta-BHC	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
319-86-8	delta-BHC	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
60-57-1	Dieldrin	27		ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
959-98-8	Endosulfan I (alpha)	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
33213-65-9	Endosulfan II (beta)	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 20:55	EPA 8081
1031-07-8	Endosulfan Sulfate	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 20:55	EPA 8081
72-20-8	Endrin	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 20:55	EPA 8081
7421-93-4	Endrin aldehyde	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 20:55	EPA 8081
53494-70-5	Endrin ketone	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 20:55	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.8	U	ug/kg dry	3.8	7/09/10 13:03	7/15/10 20:55	EPA 8081
5566-34-7	gamma-Chlordane	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
76-44-8	Heptachlor	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/15/10 20:55	EPA 8081
1024-57-3	Heptachlor epoxide	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 20:55	EPA 8081
72-43-5	Methoxychlor	38	U	ug/kg dry	38	7/09/10 13:03	7/15/10 20:55	EPA 8081
8001-35-2	Toxaphene	180	J, H-7	ug/kg dry	100	8/12/10 9:00	8/20/10 15:49	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-10**

Lab ID: **E102707-04**

Station ID: **RPAD10**

Matrix: Surface Soil

Date Collected: 6/30/10 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.6	U	ug/kg dry	5.6	7/09/10 13:03	7/23/10 19:32	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	17		ug/kg dry	7.0	7/09/10 13:03	7/15/10 21:12	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	13		ug/kg dry	7.0	7/09/10 13:03	7/23/10 19:32	EPA 8081
309-00-2	Aldrin	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
319-84-6	alpha-BHC	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 19:32	EPA 8081
5103-71-9	alpha-Chlordane	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
319-85-7	beta-BHC	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
319-86-8	delta-BHC	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
60-57-1	Dieldrin	8.3		ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
959-98-8	Endosulfan I (alpha)	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
33213-65-9	Endosulfan II (beta)	5.6	U	ug/kg dry	5.6	7/09/10 13:03	7/23/10 19:32	EPA 8081
1031-07-8	Endosulfan Sulfate	7.0	U	ug/kg dry	7.0	7/09/10 13:03	7/23/10 19:32	EPA 8081
72-20-8	Endrin	5.6	U	ug/kg dry	5.6	7/09/10 13:03	7/23/10 19:32	EPA 8081
7421-93-4	Endrin aldehyde	7.0	U	ug/kg dry	7.0	7/09/10 13:03	7/23/10 19:32	EPA 8081
53494-70-5	Endrin ketone	7.0	U	ug/kg dry	7.0	7/09/10 13:03	7/23/10 19:32	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 19:32	EPA 8081
5566-34-7	gamma-Chlordane	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
76-44-8	Heptachlor	2.1	U	ug/kg dry	2.1	7/09/10 13:03	7/23/10 19:32	EPA 8081
1024-57-3	Heptachlor epoxide	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:32	EPA 8081
72-43-5	Methoxychlor	14	U	ug/kg dry	14	7/09/10 13:03	7/23/10 19:32	EPA 8081
8001-35-2	Toxaphene	280	U	ug/kg dry	280	7/09/10 13:03	7/23/10 19:32	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-78**

Lab ID: **E102707-05**

Station ID: **RPAD10**

Matrix: Surface Soil

Date Collected: 6/30/10 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.6	U	ug/kg dry	5.6	7/09/10 13:03	7/23/10 19:49	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	19		ug/kg dry	6.9	7/09/10 13:03	7/15/10 21:29	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	12		ug/kg dry	6.9	7/09/10 13:03	7/23/10 19:49	EPA 8081
309-00-2	Aldrin	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
319-84-6	alpha-BHC	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 19:49	EPA 8081
5103-71-9	alpha-Chlordane	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
319-85-7	beta-BHC	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
319-86-8	delta-BHC	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
60-57-1	Dieldrin	8.6		ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
959-98-8	Endosulfan I (alpha)	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
33213-65-9	Endosulfan II (beta)	5.6	U	ug/kg dry	5.6	7/09/10 13:03	7/23/10 19:49	EPA 8081
1031-07-8	Endosulfan Sulfate	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 19:49	EPA 8081
72-20-8	Endrin	5.6	U	ug/kg dry	5.6	7/09/10 13:03	7/23/10 19:49	EPA 8081
7421-93-4	Endrin aldehyde	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 19:49	EPA 8081
53494-70-5	Endrin ketone	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 19:49	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 19:49	EPA 8081
5566-34-7	gamma-Chlordane	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
76-44-8	Heptachlor	2.1	U	ug/kg dry	2.1	7/09/10 13:03	7/23/10 19:49	EPA 8081
1024-57-3	Heptachlor epoxide	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 19:49	EPA 8081
72-43-5	Methoxychlor	14	U	ug/kg dry	14	7/09/10 13:03	7/23/10 19:49	EPA 8081
8001-35-2	Toxaphene	280	U	ug/kg dry	280	7/09/10 13:03	7/23/10 19:49	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-23**

Lab ID: **E102707-06**

Station ID: **RPAD23**

Matrix: Surface Soil

Date Collected: 7/1/10 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	17		ug/kg dry	15	7/09/10 13:03	7/15/10 21:46	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	82		ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	65		ug/kg dry	19	7/09/10 13:03	7/15/10 21:46	EPA 8081
309-00-2	Aldrin	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
319-84-6	alpha-BHC	3.9	U	ug/kg dry	3.9	7/09/10 13:03	7/15/10 21:46	EPA 8081
5103-71-9	alpha-Chlordane	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
319-85-7	beta-BHC	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
319-86-8	delta-BHC	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
60-57-1	Dieldrin	41		ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
959-98-8	Endosulfan I (alpha)	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
33213-65-9	Endosulfan II (beta)	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 21:46	EPA 8081
1031-07-8	Endosulfan Sulfate	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 21:46	EPA 8081
72-20-8	Endrin	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 21:46	EPA 8081
7421-93-4	Endrin aldehyde	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 21:46	EPA 8081
53494-70-5	Endrin ketone	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 21:46	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.9	U	ug/kg dry	3.9	7/09/10 13:03	7/15/10 21:46	EPA 8081
5566-34-7	gamma-Chlordane	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
76-44-8	Heptachlor	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/15/10 21:46	EPA 8081
1024-57-3	Heptachlor epoxide	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/15/10 21:46	EPA 8081
72-43-5	Methoxychlor	39	U	ug/kg dry	39	7/09/10 13:03	7/15/10 21:46	EPA 8081
8001-35-2	Toxaphene	280	J, H-7	ug/kg dry	110	8/12/10 9:00	8/20/10 19:20	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-24

Lab ID: E102707-07

Station ID: RPAD24

Matrix: Surface Soil

Date Collected: 6/30/10 17:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	120		ug/kg dry	15	7/09/10 13:03	7/15/10 22:03	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	260		ug/kg dry	76	7/09/10 13:03	7/23/10 20:23	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	240		ug/kg dry	19	7/09/10 13:03	7/15/10 22:03	EPA 8081
309-00-2	Aldrin	7.6	U	ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
319-84-6	alpha-BHC	3.8	U	ug/kg dry	3.8	7/09/10 13:03	7/15/10 22:03	EPA 8081
5103-71-9	alpha-Chlordane	7.6	U	ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
319-85-7	beta-BHC	7.6	U	ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
319-86-8	delta-BHC	7.6	U	ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
60-57-1	Dieldrin	2200		ug/kg dry	380	7/09/10 13:03	7/23/10 20:06	EPA 8081
959-98-8	Endosulfan I (alpha)	7.6	U	ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
33213-65-9	Endosulfan II (beta)	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 22:03	EPA 8081
1031-07-8	Endosulfan Sulfate	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 22:03	EPA 8081
72-20-8	Endrin	15	U	ug/kg dry	15	7/09/10 13:03	7/15/10 22:03	EPA 8081
7421-93-4	Endrin aldehyde	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 22:03	EPA 8081
53494-70-5	Endrin ketone	19	U	ug/kg dry	19	7/09/10 13:03	7/15/10 22:03	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.8	U	ug/kg dry	3.8	7/09/10 13:03	7/15/10 22:03	EPA 8081
5566-34-7	gamma-Chlordane	15		ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
76-44-8	Heptachlor	5.7	U	ug/kg dry	5.7	7/09/10 13:03	7/15/10 22:03	EPA 8081
1024-57-3	Heptachlor epoxide	14		ug/kg dry	7.6	7/09/10 13:03	7/15/10 22:03	EPA 8081
72-43-5	Methoxychlor	38	U	ug/kg dry	38	7/09/10 13:03	7/15/10 22:03	EPA 8081
8001-35-2	Toxaphene	5300		ug/kg dry	1500	7/09/10 13:03	7/23/10 20:40	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-41

Lab ID: E102707-08

Station ID: RPAD41

Matrix: Surface Soil

Date Collected: 7/1/10 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	14	U	ug/kg dry	14	7/09/10 13:03	7/15/10 22:20	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	18		ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	31		ug/kg dry	18	7/09/10 13:03	7/15/10 22:20	EPA 8081
309-00-2	Aldrin	7.1	U	ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
319-84-6	alpha-BHC	3.5	U	ug/kg dry	3.5	7/09/10 13:03	7/15/10 22:20	EPA 8081
5103-71-9	alpha-Chlordane	11	U, D-4	ug/kg dry	11	7/09/10 13:03	7/15/10 22:20	EPA 8081
319-85-7	beta-BHC	7.1	U	ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
319-86-8	delta-BHC	7.1	U	ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
60-57-1	Dieldrin	17		ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
959-98-8	Endosulfan I (alpha)	7.1	U	ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
33213-65-9	Endosulfan II (beta)	14	U	ug/kg dry	14	7/09/10 13:03	7/15/10 22:20	EPA 8081
1031-07-8	Endosulfan Sulfate	18	U	ug/kg dry	18	7/09/10 13:03	7/15/10 22:20	EPA 8081
72-20-8	Endrin	14	U	ug/kg dry	14	7/09/10 13:03	7/15/10 22:20	EPA 8081
7421-93-4	Endrin aldehyde	18	U	ug/kg dry	18	7/09/10 13:03	7/15/10 22:20	EPA 8081
53494-70-5	Endrin ketone	18	U	ug/kg dry	18	7/09/10 13:03	7/15/10 22:20	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.5	U	ug/kg dry	3.5	7/09/10 13:03	7/15/10 22:20	EPA 8081
5566-34-7	gamma-Chlordane	11		ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
76-44-8	Heptachlor	5.3	U	ug/kg dry	5.3	7/09/10 13:03	7/15/10 22:20	EPA 8081
1024-57-3	Heptachlor epoxide	7.1	U	ug/kg dry	7.1	7/09/10 13:03	7/15/10 22:20	EPA 8081
72-43-5	Methoxychlor	35	U	ug/kg dry	35	7/09/10 13:03	7/15/10 22:20	EPA 8081
8001-35-2	Toxaphene	110	J, H-7	ug/kg dry	99	8/12/10 9:00	8/20/10 16:30	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-42

Lab ID: E102707-09

Station ID: RPAD42

Matrix: Surface Soil

Date Collected: 6/30/10 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.7	U	ug/kg dry	5.7	7/09/10 13:03	7/23/10 21:14	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	29		ug/kg dry	7.2	7/09/10 13:03	7/15/10 22:37	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	11		ug/kg dry	7.2	7/09/10 13:03	7/23/10 21:14	EPA 8081
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
319-84-6	alpha-BHC	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 21:14	EPA 8081
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
60-57-1	Dieldrin	34		ug/kg dry	7.2	7/09/10 13:03	7/15/10 22:37	EPA 8081
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
33213-65-9	Endosulfan II (beta)	5.7	U	ug/kg dry	5.7	7/09/10 13:03	7/23/10 21:14	EPA 8081
1031-07-8	Endosulfan Sulfate	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/23/10 21:14	EPA 8081
72-20-8	Endrin	5.7	U	ug/kg dry	5.7	7/09/10 13:03	7/23/10 21:14	EPA 8081
7421-93-4	Endrin aldehyde	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/23/10 21:14	EPA 8081
53494-70-5	Endrin ketone	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/23/10 21:14	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 21:14	EPA 8081
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
76-44-8	Heptachlor	2.1	U	ug/kg dry	2.1	7/09/10 13:03	7/23/10 21:14	EPA 8081
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/23/10 21:14	EPA 8081
72-43-5	Methoxychlor	14	U	ug/kg dry	14	7/09/10 13:03	7/23/10 21:14	EPA 8081
8001-35-2	Toxaphene	290	U	ug/kg dry	290	7/09/10 13:03	7/23/10 21:14	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-43**

Lab ID: **E102707-10**

Station ID: **RPAD43**

Matrix: Surface Soil

Date Collected: 7/1/10 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.9	U	ug/kg dry	5.9	7/09/10 13:03	7/23/10 21:31	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	29		ug/kg dry	7.4	7/09/10 13:03	7/15/10 22:54	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	28		ug/kg dry	18	7/09/10 13:03	7/15/10 22:54	EPA 8081
309-00-2	Aldrin	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/23/10 21:31	EPA 8081
5103-71-9	alpha-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
319-85-7	beta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
319-86-8	delta-BHC	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
60-57-1	Dieldrin	3.3	J, Q-4	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
959-98-8	Endosulfan I (alpha)	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
33213-65-9	Endosulfan II (beta)	5.9	U	ug/kg dry	5.9	7/09/10 13:03	7/23/10 21:31	EPA 8081
1031-07-8	Endosulfan Sulfate	7.4	U	ug/kg dry	7.4	7/09/10 13:03	7/23/10 21:31	EPA 8081
72-20-8	Endrin	5.9	U	ug/kg dry	5.9	7/09/10 13:03	7/23/10 21:31	EPA 8081
7421-93-4	Endrin aldehyde	7.4	U	ug/kg dry	7.4	7/09/10 13:03	7/23/10 21:31	EPA 8081
53494-70-5	Endrin ketone	7.4	U	ug/kg dry	7.4	7/09/10 13:03	7/23/10 21:31	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/23/10 21:31	EPA 8081
5566-34-7	gamma-Chlordane	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:03	7/23/10 21:31	EPA 8081
1024-57-3	Heptachlor epoxide	3.0	U	ug/kg dry	3.0	7/09/10 13:03	7/23/10 21:31	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:03	7/23/10 21:31	EPA 8081
8001-35-2	Toxaphene	300	U	ug/kg dry	300	7/09/10 13:03	7/23/10 21:31	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-51

Lab ID: E102707-11

Station ID: RPAD51

Matrix: Surface Soil

Date Collected: 7/1/10 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.5	U	ug/kg dry	5.5	7/09/10 13:03	7/23/10 21:48	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	4.5		ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 21:48	EPA 8081
309-00-2	Aldrin	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
319-84-6	alpha-BHC	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 21:48	EPA 8081
5103-71-9	alpha-Chlordane	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
319-85-7	beta-BHC	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
319-86-8	delta-BHC	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
60-57-1	Dieldrin	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
959-98-8	Endosulfan I (alpha)	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
33213-65-9	Endosulfan II (beta)	5.5	U	ug/kg dry	5.5	7/09/10 13:03	7/23/10 21:48	EPA 8081
1031-07-8	Endosulfan Sulfate	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 21:48	EPA 8081
72-20-8	Endrin	5.5	U	ug/kg dry	5.5	7/09/10 13:03	7/23/10 21:48	EPA 8081
7421-93-4	Endrin aldehyde	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 21:48	EPA 8081
53494-70-5	Endrin ketone	6.9	U	ug/kg dry	6.9	7/09/10 13:03	7/23/10 21:48	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/23/10 21:48	EPA 8081
5566-34-7	gamma-Chlordane	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
76-44-8	Heptachlor	2.1	U	ug/kg dry	2.1	7/09/10 13:03	7/23/10 21:48	EPA 8081
1024-57-3	Heptachlor epoxide	2.8	U	ug/kg dry	2.8	7/09/10 13:03	7/23/10 21:48	EPA 8081
72-43-5	Methoxychlor	14	U	ug/kg dry	14	7/09/10 13:03	7/23/10 21:48	EPA 8081
8001-35-2	Toxaphene	280	U	ug/kg dry	280	7/09/10 13:03	7/23/10 21:48	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-52

Lab ID: E102707-12

Station ID: RPAD52

Matrix: Surface Soil

Date Collected: 7/1/10 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.1	U	ug/kg dry	6.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	25		ug/kg dry	7.7	7/09/10 13:03	7/15/10 23:28	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	11		ug/kg dry	7.7	7/09/10 13:03	7/23/10 23:30	EPA 8081
309-00-2	Aldrin	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/23/10 23:30	EPA 8081
5103-71-9	alpha-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
319-85-7	beta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
319-86-8	delta-BHC	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
60-57-1	Dieldrin	5.5		ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
959-98-8	Endosulfan I (alpha)	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
33213-65-9	Endosulfan II (beta)	6.1	U	ug/kg dry	6.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
1031-07-8	Endosulfan Sulfate	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/23/10 23:30	EPA 8081
72-20-8	Endrin	6.1	U	ug/kg dry	6.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
7421-93-4	Endrin aldehyde	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/23/10 23:30	EPA 8081
53494-70-5	Endrin ketone	7.7	U	ug/kg dry	7.7	7/09/10 13:03	7/23/10 23:30	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/23/10 23:30	EPA 8081
5566-34-7	gamma-Chlordane	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
76-44-8	Heptachlor	2.3	U	ug/kg dry	2.3	7/09/10 13:03	7/23/10 23:30	EPA 8081
1024-57-3	Heptachlor epoxide	3.1	U	ug/kg dry	3.1	7/09/10 13:03	7/23/10 23:30	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:03	7/23/10 23:30	EPA 8081
8001-35-2	Toxaphene	310	U	ug/kg dry	310	7/09/10 13:03	7/23/10 23:30	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-61

Lab ID: E102707-13

Station ID: RPAD61

Matrix: Surface Soil

Date Collected: 7/1/10 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	120	J, Q-4	ug/kg dry	14	7/09/10 13:03	7/15/10 23:45	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	1100		ug/kg dry	140	7/09/10 13:03	7/24/10 0:03	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	950		ug/kg dry	180	7/09/10 13:03	7/24/10 0:21	EPA 8081
309-00-2	Aldrin	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/15/10 23:45	EPA 8081
319-84-6	alpha-BHC	3.6	U	ug/kg dry	3.6	7/09/10 13:03	7/15/10 23:45	EPA 8081
5103-71-9	alpha-Chlordane	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/15/10 23:45	EPA 8081
319-85-7	beta-BHC	56		ug/kg dry	7.2	7/09/10 13:03	7/15/10 23:45	EPA 8081
319-86-8	delta-BHC	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/15/10 23:45	EPA 8081
60-57-1	Dieldrin	3800		ug/kg dry	360	7/09/10 13:03	7/23/10 23:47	EPA 8081
959-98-8	Endosulfan I (alpha)	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/15/10 23:45	EPA 8081
33213-65-9	Endosulfan II (beta)	14	U	ug/kg dry	14	7/09/10 13:03	7/15/10 23:45	EPA 8081
1031-07-8	Endosulfan Sulfate	80		ug/kg dry	18	7/09/10 13:03	7/15/10 23:45	EPA 8081
72-20-8	Endrin	110		ug/kg dry	14	7/09/10 13:03	7/15/10 23:45	EPA 8081
7421-93-4	Endrin aldehyde	18	U	ug/kg dry	18	7/09/10 13:03	7/15/10 23:45	EPA 8081
53494-70-5	Endrin ketone	18	U	ug/kg dry	18	7/09/10 13:03	7/15/10 23:45	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.6	U	ug/kg dry	3.6	7/09/10 13:03	7/15/10 23:45	EPA 8081
5566-34-7	gamma-Chlordane	29	U, D-4	ug/kg dry	29	7/09/10 13:03	7/15/10 23:45	EPA 8081
76-44-8	Heptachlor	5.4	U	ug/kg dry	5.4	7/09/10 13:03	7/15/10 23:45	EPA 8081
1024-57-3	Heptachlor epoxide	17		ug/kg dry	7.2	7/09/10 13:03	7/15/10 23:45	EPA 8081
72-43-5	Methoxychlor	36	U	ug/kg dry	36	7/09/10 13:03	7/15/10 23:45	EPA 8081
8001-35-2	Toxaphene	5900		ug/kg dry	2900	7/09/10 13:03	7/24/10 0:37	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-62

Lab ID: E102707-14

Station ID: RPAD62

Matrix: Surface Soil

Date Collected: 7/1/10 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	80		ug/kg dry	16	7/09/10 13-03	7/16/10 0:02	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	390		ug/kg dry	79	7/09/10 13-03	7/24/10 1:28	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	140		ug/kg dry	20	7/09/10 13-03	7/16/10 0:02	EPA 8081
309-00-2	Aldrin	7.9	U	ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
319-84-6	alpha-BHC	3.9	U	ug/kg dry	3.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
5103-71-9	alpha-Chlordane	7.9	U	ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
319-85-7	beta-BHC	7.9	U	ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
319-86-8	delta-BHC	7.9	U	ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
60-57-1	Dieldrin	1700		ug/kg dry	320	7/09/10 13-03	7/24/10 1:11	EPA 8081
959-98-8	Endosulfan I (alpha)	7.9	U	ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
33213-65-9	Endosulfan II (beta)	16	U	ug/kg dry	16	7/09/10 13-03	7/16/10 0:02	EPA 8081
1031-07-8	Endosulfan Sulfate	20	U	ug/kg dry	20	7/09/10 13-03	7/16/10 0:02	EPA 8081
72-20-8	Endrin	37		ug/kg dry	16	7/09/10 13-03	7/16/10 0:02	EPA 8081
7421-93-4	Endrin aldehyde	20	U	ug/kg dry	20	7/09/10 13-03	7/16/10 0:02	EPA 8081
53494-70-5	Endrin ketone	20	U	ug/kg dry	20	7/09/10 13-03	7/16/10 0:02	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.9	U	ug/kg dry	3.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
5566-34-7	gamma-Chlordane	13		ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
76-44-8	Heptachlor	5.9	U	ug/kg dry	5.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
1024-57-3	Heptachlor epoxide	10		ug/kg dry	7.9	7/09/10 13-03	7/16/10 0:02	EPA 8081
72-43-5	Methoxychlor	39	U	ug/kg dry	39	7/09/10 13-03	7/16/10 0:02	EPA 8081
8001-35-2	Toxaphene	2400		ug/kg dry	790	7/09/10 13-03	7/16/10 0:02	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-68

Lab ID: E102707-15

Station ID: RPAD68

Matrix: Surface Soil

Date Collected: 7/1/10 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 1:45	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	20		ug/kg dry	7.3	7/09/10 13:03	7/16/10 0:18	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	27		ug/kg dry	7.3	7/09/10 13:03	7/24/10 1:45	EPA 8081
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/24/10 1:45	EPA 8081
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
60-57-1	Dieldrin	3.3		ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
33213-65-9	Endosulfan II (beta)	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 1:45	EPA 8081
1031-07-8	Endosulfan Sulfate	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 1:45	EPA 8081
72-20-8	Endrin	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 1:45	EPA 8081
7421-93-4	Endrin aldehyde	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 1:45	EPA 8081
53494-70-5	Endrin ketone	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 1:45	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/24/10 1:45	EPA 8081
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:03	7/24/10 1:45	EPA 8081
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 1:45	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:03	7/24/10 1:45	EPA 8081
8001-35-2	Toxaphene	290	U	ug/kg dry	290	7/09/10 13:03	7/24/10 1:45	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-69**

Lab ID: **E102707-16**

Station ID: **RPAD69**

Matrix: Surface Soil

Date Collected: 7/1/10 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.9	U	ug/kg dry	5.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	17		ug/kg dry	7.4	7/09/10 13:03	7/16/10 0:35	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	20		ug/kg dry	7.4	7/09/10 13:03	7/24/10 2:02	EPA 8081
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/24/10 2:02	EPA 8081
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
60-57-1	Dieldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
33213-65-9	Endosulfan II (beta)	5.9	U	ug/kg dry	5.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
1031-07-8	Endosulfan Sulfate	7.4	U	ug/kg dry	7.4	7/09/10 13:03	7/24/10 2:02	EPA 8081
72-20-8	Endrin	5.9	U	ug/kg dry	5.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
7421-93-4	Endrin aldehyde	7.4	U	ug/kg dry	7.4	7/09/10 13:03	7/24/10 2:02	EPA 8081
53494-70-5	Endrin ketone	7.4	U	ug/kg dry	7.4	7/09/10 13:03	7/24/10 2:02	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/24/10 2:02	EPA 8081
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:03	7/24/10 2:02	EPA 8081
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:02	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:03	7/24/10 2:02	EPA 8081
8001-35-2	Toxaphene	290	U	ug/kg dry	290	7/09/10 13:03	7/24/10 2:02	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-70**

Lab ID: **E102707-17**

Station ID: **RPAD70**

Matrix: Surface Soil

Date Collected: 7/1/10 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 2:19	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/24/10 2:19	EPA 8081
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
319-84-6	alpha-BHC	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/24/10 2:19	EPA 8081
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
60-57-1	Dieldrin	4.0		ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
33213-65-9	Endosulfan II (beta)	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 2:19	EPA 8081
1031-07-8	Endosulfan Sulfate	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/24/10 2:19	EPA 8081
72-20-8	Endrin	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 2:19	EPA 8081
7421-93-4	Endrin aldehyde	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/24/10 2:19	EPA 8081
53494-70-5	Endrin ketone	7.2	U	ug/kg dry	7.2	7/09/10 13:03	7/24/10 2:19	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.4	U	ug/kg dry	1.4	7/09/10 13:03	7/24/10 2:19	EPA 8081
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:03	7/24/10 2:19	EPA 8081
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:19	EPA 8081
72-43-5	Methoxychlor	14	U	ug/kg dry	14	7/09/10 13:03	7/24/10 2:19	EPA 8081
8001-35-2	Toxaphene	290	U	ug/kg dry	290	7/09/10 13:03	7/24/10 2:19	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: **RP-CS-84**

Lab ID: **E102707-18**

Station ID: **RPAD70**

Matrix: Surface Soil

Date Collected: 7/1/10 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 2:36	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 2:36	EPA 8081
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
319-84-6	alpha-BHC	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/24/10 2:36	EPA 8081
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
60-57-1	Dieldrin	3.8		ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
33213-65-9	Endosulfan II (beta)	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 2:36	EPA 8081
1031-07-8	Endosulfan Sulfate	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 2:36	EPA 8081
72-20-8	Endrin	5.8	U	ug/kg dry	5.8	7/09/10 13:03	7/24/10 2:36	EPA 8081
7421-93-4	Endrin aldehyde	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 2:36	EPA 8081
53494-70-5	Endrin ketone	7.3	U	ug/kg dry	7.3	7/09/10 13:03	7/24/10 2:36	EPA 8081
58-89-9	gamma-BHC [Lindane]	1.5	U	ug/kg dry	1.5	7/09/10 13:03	7/24/10 2:36	EPA 8081
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:03	7/24/10 2:36	EPA 8081
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	7/09/10 13:03	7/24/10 2:36	EPA 8081
72-43-5	Methoxychlor	15	U	ug/kg dry	15	7/09/10 13:03	7/24/10 2:36	EPA 8081
8001-35-2	Toxaphene	290	U	ug/kg dry	290	7/09/10 13:03	7/24/10 2:36	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-72

Lab ID: E102707-19

Station ID: RPAD72

Matrix: Surface Soil

Date Collected: 7/1/10 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	5.7	U	ug/kg dry	5.7	7/09/10 13:07	7/23/10 11:27	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	14		ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	15		ug/kg dry	7.2	7/09/10 13:07	7/23/10 11:27	EPA 8081
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
319-84-6	alpha-BHC	1.4	U	ug/kg dry	1.4	7/09/10 13:07	7/23/10 11:27	EPA 8081
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
60-57-1	Dieldrin	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
33213-65-9	Endosulfan II (beta)	5.7	U	ug/kg dry	5.7	7/09/10 13:07	7/23/10 11:27	EPA 8081
1031-07-8	Endosulfan Sulfate	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 11:27	EPA 8081
72-20-8	Endrin	5.7	U	ug/kg dry	5.7	7/09/10 13:07	7/23/10 11:27	EPA 8081
7421-93-4	Endrin aldehyde	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 11:27	EPA 8081
53494-70-5	Endrin ketone	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 11:27	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.4	U	ug/kg dry	1.4	7/09/10 13:07	7/23/10 11:27	EPA 8081
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
76-44-8	Heptachlor	2.2	U	ug/kg dry	2.2	7/09/10 13:07	7/23/10 11:27	EPA 8081
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	7/09/10 13:07	7/23/10 11:27	EPA 8081
72-43-5	Methoxychlor	14	U	ug/kg dry	14	7/09/10 13:07	7/23/10 11:27	EPA 8081
8001-35-2	Toxaphene	290	U	ug/kg dry	290	7/09/10 13:07	7/23/10 11:27	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-73

Lab ID: E102707-20

Station ID: RPAD73

Matrix: Surface Soil

Date Collected: 7/1/10 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	7.3		ug/kg dry	6.3	7/09/10 13:07	7/23/10 11:44	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	63		ug/kg dry	7.9	7/09/10 13:07	7/23/10 1:10	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	51		ug/kg dry	7.9	7/09/10 13:07	7/23/10 11:44	EPA 8081
309-00-2	Aldrin	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 11:44	EPA 8081
5103-71-9	alpha-Chlordane	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
319-85-7	beta-BHC	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
319-86-8	delta-BHC	14		ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
60-57-1	Dieldrin	14		ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
959-98-8	Endosulfan I (alpha)	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
33213-65-9	Endosulfan II (beta)	6.3	U	ug/kg dry	6.3	7/09/10 13:07	7/23/10 11:44	EPA 8081
1031-07-8	Endosulfan Sulfate	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 11:44	EPA 8081
72-20-8	Endrin	6.3	U	ug/kg dry	6.3	7/09/10 13:07	7/23/10 11:44	EPA 8081
7421-93-4	Endrin aldehyde	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 11:44	EPA 8081
53494-70-5	Endrin ketone	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 11:44	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 11:44	EPA 8081
5566-34-7	gamma-Chlordane	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
76-44-8	Heptachlor	2.4	U	ug/kg dry	2.4	7/09/10 13:07	7/23/10 11:44	EPA 8081
1024-57-3	Heptachlor epoxide	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 11:44	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:07	7/23/10 11:44	EPA 8081
8001-35-2	Toxaphene	320	U	ug/kg dry	320	7/09/10 13:07	7/23/10 11:44	EPA 8081



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: 10-0494

Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-74

Lab ID: E102707-21

Station ID: RPAD74

Matrix: Surface Soil

Date Collected: 7/1/10 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	6.3	U	ug/kg dry	6.3	7/09/10 13:07	7/23/10 12:00	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 12:00	EPA 8081
309-00-2	Aldrin	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
319-84-6	alpha-BHC	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 12:00	EPA 8081
5103-71-9	alpha-Chlordane	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
319-85-7	beta-BHC	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
319-86-8	delta-BHC	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
60-57-1	Dieldrin	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
959-98-8	Endosulfan I (alpha)	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
33213-65-9	Endosulfan II (beta)	6.3	U	ug/kg dry	6.3	7/09/10 13:07	7/23/10 12:00	EPA 8081
1031-07-8	Endosulfan Sulfate	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 12:00	EPA 8081
72-20-8	Endrin	6.3	U	ug/kg dry	6.3	7/09/10 13:07	7/23/10 12:00	EPA 8081
7421-93-4	Endrin aldehyde	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 12:00	EPA 8081
53494-70-5	Endrin ketone	7.9	U	ug/kg dry	7.9	7/09/10 13:07	7/23/10 12:00	EPA 8081
58-89-9	gamma-BHC (Lindane)	1.6	U	ug/kg dry	1.6	7/09/10 13:07	7/23/10 12:00	EPA 8081
5566-34-7	gamma-Chlordane	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
76-44-8	Heptachlor	2.4	U	ug/kg dry	2.4	7/09/10 13:07	7/23/10 12:00	EPA 8081
1024-57-3	Heptachlor epoxide	3.2	U	ug/kg dry	3.2	7/09/10 13:07	7/23/10 12:00	EPA 8081
72-43-5	Methoxychlor	16	U	ug/kg dry	16	7/09/10 13:07	7/23/10 12:00	EPA 8081
8001-35-2	Toxaphene	320	U	ug/kg dry	320	7/09/10 13:07	7/23/10 12:00	EPA 8081



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: 10-0494
 Project: 10-0494, Red Panther Chemical Co - Reported by Sallie Hale

Organochlorine Pesticides

Project: 10-0494, Red Panther Chemical Co

Sample ID: RP-CS-75

Lab ID: E102707-22

Station ID: RPAD75

Matrix: Surface Soil

Date Collected: 7/1/10 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	14	U	ug/kg dry	14	7/09/10 13:07	7/23/10 1:42	EPA 8081
72-55-9	4,4'-DDE (p,p'-DDE)	87		ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
50-29-3	4,4'-DDT (p,p'-DDT)	95		ug/kg dry	18	7/09/10 13:07	7/23/10 1:42	EPA 8081
309-00-2	Aldrin	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
319-84-6	alpha-BHC	3.6	U	ug/kg dry	3.6	7/09/10 13:07	7/23/10 1:42	EPA 8081
5103-71-9	alpha-Chlordane	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
319-85-7	beta-BHC	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
319-86-8	delta-BHC	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
60-57-1	Dieldrin	210		ug/kg dry	29	7/09/10 13:07	7/27/10 11:56	EPA 8081
959-98-8	Endosulfan I (alpha)	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
33213-65-9	Endosulfan II (beta)	14	U	ug/kg dry	14	7/09/10 13:07	7/23/10 1:42	EPA 8081
1031-07-8	Endosulfan Sulfate	18	U	ug/kg dry	18	7/09/10 13:07	7/23/10 1:42	EPA 8081
72-20-8	Endrin	14	U	ug/kg dry	14	7/09/10 13:07	7/23/10 1:42	EPA 8081
7421-93-4	Endrin aldehyde	18	U	ug/kg dry	18	7/09/10 13:07	7/23/10 1:42	EPA 8081
53494-70-5	Endrin ketone	18	U	ug/kg dry	18	7/09/10 13:07	7/23/10 1:42	EPA 8081
58-89-9	gamma-BHC (Lindane)	3.6	U	ug/kg dry	3.6	7/09/10 13:07	7/23/10 1:42	EPA 8081
5566-34-7	gamma-Chlordane	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
76-44-8	Heptachlor	5.4	U	ug/kg dry	5.4	7/09/10 13:07	7/23/10 1:42	EPA 8081
1024-57-3	Heptachlor epoxide	7.2	U	ug/kg dry	7.2	7/09/10 13:07	7/23/10 1:42	EPA 8081
72-43-5	Methoxychlor	36	U	ug/kg dry	36	7/09/10 13:07	7/23/10 1:42	EPA 8081
8001-35-2	Toxaphene	430	J, H-7	ug/kg dry	200	8/12/10 9:00	8/20/10 17:04	EPA 8081

APPENDIX E
LOGBOOK NOTES

Rite in the Rain
ALL-WEATHER WRITING PAPER



ALL-WEATHER
ENVIRONMENTAL FIELD BOOK

Name Adam Davis (TNA Sub (Aerostar))

Address TNA Marietta, GA

Phone 678 355 5550

Project Red Panther Chemical Company
Clarksdale, Coahoma County, MS
TDD NO TNA-05-003-0004
Book 1 of 2 (Adam Davis entries)

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to repel water and enhance the writer's image. It's made to last throughout the work day - resistant to stains and smudges. For best results, use a good quality all-weather pen.

Engineering Division
Mass Paper

Copy Options

Company Name Paper Description Paper Price

Quantity Price per Sheet Total Price

©1997 547146-0004

CONTENTS

PAGE	REFERENCE	DATE
5	6 VOA vials, 2-1L polys, 10/8 12-1L Ambers collected for RP-TW-08 + MS/MSD	
6	RP-TW-06 samples @ 1613 (3 VOAs, 2-1L polys, 6-1L Ambers)	

Reference Page Index

49	Environmental Protection Agency (EPA) - 1990
50	Environmental Protection Agency (EPA) - 1991
51	Environmental Protection Agency (EPA) - 1992
52	Environmental Protection Agency (EPA) - 1993
53	Environmental Protection Agency (EPA) - 1994
54	Environmental Protection Agency (EPA) - 1995
55	Environmental Protection Agency (EPA) - 1996
56	Environmental Protection Agency (EPA) - 1997
57	Environmental Protection Agency (EPA) - 1998
58	Environmental Protection Agency (EPA) - 1999
59	Environmental Protection Agency (EPA) - 2000
60	Environmental Protection Agency (EPA) - 2001
61	Environmental Protection Agency (EPA) - 2002
62	Environmental Protection Agency (EPA) - 2003
63	Environmental Protection Agency (EPA) - 2004
64	Environmental Protection Agency (EPA) - 2005
65	Environmental Protection Agency (EPA) - 2006
66	Environmental Protection Agency (EPA) - 2007
67	Environmental Protection Agency (EPA) - 2008
68	Environmental Protection Agency (EPA) - 2009
69	Environmental Protection Agency (EPA) - 2010
70	Environmental Protection Agency (EPA) - 2011
71	Environmental Protection Agency (EPA) - 2012
72	Environmental Protection Agency (EPA) - 2013
73	Environmental Protection Agency (EPA) - 2014
74	Environmental Protection Agency (EPA) - 2015
75	Environmental Protection Agency (EPA) - 2016
76	Environmental Protection Agency (EPA) - 2017
77	Environmental Protection Agency (EPA) - 2018
78	Environmental Protection Agency (EPA) - 2019
79	Environmental Protection Agency (EPA) - 2020
80	Environmental Protection Agency (EPA) - 2021
81	Environmental Protection Agency (EPA) - 2022
82	Environmental Protection Agency (EPA) - 2023
83	Environmental Protection Agency (EPA) - 2024
84	Environmental Protection Agency (EPA) - 2025

CONTENTS

PAGE

REFERENCE

DATE

Location Red Panther Clarksdale MS Date 10/8/07Project / Client TDD TNA - 05-003-0004.WEATHER FORECAST: HIGH 90 LOW 70 LIGHT SE
30% CHANCE RAIN WIND 0-10.

0740 - Depart Hotel. _____

0800 - Arrive on site. Site Personnel:
 Idley Patten - TNA, Michael Thompson -
 TNA, Adam Davis (TNA Sub Aerostar),
 Matthew Arceneaux (Aerostar),
 Drillers Tim Myers & Rodney Brass-
 field (Miller Drilling Co. Lawrence-
 burg, TN). _____

0810 - Site Safety Brief with all
 above. Major topics discussed:
 - Pinch Points - Overhead utilities -
 weather (Heat / Hydration) - Underground
 Utilities - Chemicals of Concern.
 All sign off on HASP. _____

0850 - Drillers set up decon pad
 on SE corner of yard near Shipping
 Department water connection. _____

0900 - Atmos Energy (Utility locator)
 arrives on site to mark utilities in
 vicinity of temp. well locations. _____

0905 - Drillers complete decon of equipment.

Jon Q 10/8/07 _____

Location Red Panther Date 10/8/07

Project/Client TNA 05-003-0004

0940 - Driller set up on RP-TW-08.

0945 - Starts pushing w/ Geoprobe.

0950 - Metals blank collected (2-1L plastics).

1007 - Equipment check & calibration.

1057 - Begin development of RP-TW-08 with peristaltic pump & Teflon tubing.

Water level @ 12.59' below top of casing. Purge rate of approx.

1 gal/min (gpm). Changed purge rate to 0.4-0.5 gpm and water

level in well holds @ 13.00' BTOC.

Adjust purge/develop rate to max rate on pump of approx. ~~30~~ 4 gpm.

1120 - Check Turbidity RP-TW-08.

Turbidity = > 1000 NTU. Continue development.

1122 - Change power source of pump to battery. Purge develop rate = 0.4

gpm.

1150 - Check Turbidity (NTU) on well.

~~NTU~~ Turbidity = 204 NTU.

1155 - So Sol.

1157 - Discontinue Well development RP-TW-08.

10/8/07 JR

Location Red Panther Date 10/8/07

Project/Client TNA 05-003-0004

1200 - Prep. for Well Purge of RP-TW-08.

RP-TW-08 PURGE DATA:

Initial Depth to Water (DTW):

Start Time: 12.22 Purge Rate: 0.06

Total Depth of Well: 25.12 gpm

Length of Water Column: 25.12 - 12.59 = 12.53

Well Volume = $12.53 \times 0.041 = 0.51$

3 Well Volumes = 1.54.

TIME	VOL GAL	TEMP ^o °C	COND mS/cm	DO mg/L	pH	ORP mV	TURB NTU
1230	0.48	25.69	0.448	0.77	6.16	-31.4	204
1238	0.72	25.69	0.467	0.52	6.18	-45.3	326
1238	0.96	26.49	0.471	0.39	6.21	-45.3	313
1242	- Pump circuit breaker tripped.						
1246	- Reset breaker & pump head to 300 RPM						
1250	1.20	26.26	0.467	1.29	6.28	-45.4	39
1254	1.44	25.42	0.454	1.79	6.22	-35.2	248
1258	1.68	25.32	0.462	0.61	6.15	-38.9	226

1300 - Stop Purge & Collect Samples for RP-TW-08 & ms/mSD.

Samples IDs as follows: (see page 11 Contents)

1410 Begin development of RP-TW-08 with peristaltic pump & Teflon tubing. Water level TOC 17.1' and total

Location Red Panther Date 10/8/07
 Project / Client TNA-05-003-0004

depth is 42.2 total depth from top of casing —
 PURGE RATE of approximately 4.25 ml/min.

1437 Turbidity at 234 & WATER DEPTH is 23.28

1456 turbidity @ 126, purged 5 gals total

1508 turbidity @ 150, purged 6 gals total

1520 turbidity @ 168, purged 8 gals total ^{10 gals}

24.95 depth to water = $(42.2 - 24.95) \times 0.71 = 0.61$ ^{total purg}

Time Vol temp cond depth ORP turbidity
 gals °C ms/cm mg/L s mv ntu

3:38 0.3 21.75 0.843 2.36 6.51 48.5 255

3:43 0.6 21.69 0.842 2.24 6.48 48.5 248

3:48 0.9 21.53 0.840 2.08 6.45 46.6 121

3:53 1.2 21.49 0.837 1.91 6.44 46.3 69.1

3:58 1.5 21.56 0.842 2.54 6.46 47.5 35.7

4:03 1.8 21.84 0.841 2.18 6.50 51.0 7.8

4:08 2.1 21.62 0.840 2.05 6.50 51.0 7.8

4:13 Samples Collected — RP-TW-06

3 VOA Vials, 6-1 L Ambers (SVOC &

BNA/Pest), & 2-1 L Plastics (Metals &

Cyanide) — Note above times

from 3:38 entry were incorrectly

written (i.e. not written in military

time). 3:38 entry should have

been 1538, 3:43 should have been

1543, etc. See 10/8/07

Location Red Panther Date 10/8/07
 Project / Client TNA-05-003-0004

RP-TW-06 Sample time listed
 on dress as 1613.

Note — Entries in logbook from
 1410 to 1613 were made by Matt
 Arceneaux & Michael Thompson.
 Entries made from 1613 on made
 by Adam Davis.

1630 — Collected rinsate off
 of decontaminated Geoprobe
 rod. (3 VOA vials, 2-1 L plastics,
 6-1 L Ambers)

1700 — Collected Metals Blank

(1-L Poly).

1730 — Collected Metals Blank — ^{Trip}

RB-TB-01.

Late Note: 1630 — Depart Site.

0745 arrived at site

0800 — moved to RP-TW-05

0820 — began development of RP-TW-05

@ purge rate of 0.5 x max pump

— purging began @ 0900, took longer to

set up than expected.

Location Red Panther Date 10/9/07
Project/Client TNA-05-003-0004

0900
gauging well depth to water 21.8 feet
to top of well depth is 47.8 feet,
permanent 2 inch monitoring well located
at NW corner of warehouse building
south of office and lab.

MW-02 well; depth to water was step
for peristaltic pump; will begin
development with bladder pump.

1100 moved to permanent monitoring well to
be named later, ~~is~~ suspected monitor well -02
depth to water was 47.8 feet, water was 24.8 feet
below top of casing, from top of casing to
ground is 3.5 feet. This well is a 2 inch
PVC casing and was placed here prior to arrival
at site. The 2" factor is 0.163,
began development @ 1200; van got stuck during
transfer to MW-02

1200 - began development @ 0.75 full
power of pump
1200 turbidity of 461
broke for lunch; restarting after lunch

Location Red Panther Date 10/9/07
Project/Client TNA-05-003-0004

1240 - began development of MW-02
1240 - initial turbidity - 164, 0 gals pumped
1255 - turbidity at 119 ntu, 3.5 gals pumped
1310 - turbidity at 106 ntu, 4.5 gals pumped
1325 - turbidity at 80.7 ntu, 5.0 gals pumped
1440 - turbidity at 20.7 ntu, 5.5 gals pumped
step development @ 1441, gallons total pumped
1442 - set up for purge of R.P. MW-02

R.P. - MW-02 purge data:
initial depth to water 29.7 feet below top of casing
to total depth of well 47.8 feet; length of H₂O col. 18.1 feet
3 purge vols (gals) = 3 x 0.163 x 18.17 = 9.0 gals
start time 1445 of purging
purge rate of 59 l/min in 1.5 mins; $\frac{1.5 \text{ mins}}{55 \text{ gal}} = 11 \text{ min/gal}$
time to purge 9 gals is 99 mins, 5

time	vol	temp	cond	du	pH	orp	turb
mm	(gals)	°C	µS/cm	mg/L	ju	mn	ntu
1350	1450 ¹⁴⁵⁰	0.5	21.70	0.813	0.45	6.90	-43.3 200
1400	1500 ¹⁵⁰⁰	1.5	22.04	0.788	0.34	6.77	-41.2 139
1410	1510 ¹⁵¹⁰	2.5	22.07	0.790	0.98	6.79	-35.8 270
1420	1520 ¹⁵²⁰	3.5	21.80	0.788	0.34	6.78	-39.2 236
1440	1540 ¹⁵⁴⁰	6.0	22.35	0.791	0.30	6.81	-42.5 293
1450	1550 ¹⁵⁵⁰	7.5	22.41	0.791	0.28	6.79	-44.1 333
1500	1600 ¹⁶⁰⁰	9.0	22.32	0.792	1.06	6.83	-34.6 301

stopped purge @ 1601 (1501)

Location Red Panther Date 10/10/07
 Project / Client TRNA 05-003-0004

began sampling MW-02 @ ¹⁵⁰¹ ~~1601~~ ^{no}
 samples collected for vials (3-40mls, metals-cyanide,
 2-1L plys, BNA pests & semi vials, 6-1L amber
 glass bottles)

stopped sampling at 1530

Note Preservative Samples were made by
 Michael Thompson at 1450

began sampling MW-02 dup at 1531
 samples consist of (3-40mls for vials) (metals-
 cyanide, 2-1L pelys), BNA pests & semi vials,
 6-1L amber glass bottles)

stopped collecting at 1610

Note RP-TW-05 was purged dry at 1000,

let sit and fill for an hour

RP-TW-05 was purged dry at 1130, let

sit and fill for an hour

Note Sample times on previous page for
 purge times and cessation of purge times were
 each ahead by 0100, thus 1st purge reading should
 read 1350, stop purge time should read 1500,
 and starting sampling time should read 1501.
 Correct time begins at "stopped sampling at 1530"
 sampling time for MW-02 is 1531 for sample and
 duplicates

Location Red Panther Date _____
 Project / Client TRNA 05-003-0004

moved to RP-TW-05 @ 1615

initial depth to water 34.72 ft btoc

insufficient amperage on battery, waited to

move van around to attempt sampling

started sampling @ 1638

pre-filling (2) 1L amber bottles first for (1) pest
 - were able to fill or obtain (1) 1L amber glass + (2) 1L poly

stopped sampling at 1708

left site at 1730

end

Note Trip blank for 10/9/07 was done
 by Michael Thompson @ 1450

Location Red Panther Date 10/10/07

Project Ident TWA-05-003-0004

Weather clear Low 70's High mid 80's

0735 TWA & Miller on site

Acoustic at the well packing coolers

0750 Drillers setting up to install

45' well @ TW-07

0755 collect 3 VOA's from

TW-05, Finished Kelly Patten, Michael Thompson basin

0940 check for water for previous installed at

TW-07; 25.55 water depth at 45 foot well

1000 Begin purging, initial turbidity reading was

191 NTU

1010 stopped purging and added 6 feet of tubing

1050 Turbidity reading at 1000 NTU and greater

1106 stopped development of TW-07 and deep for purging

Initial depth to water is 25.55 from top casing

Total depth of well is 45 ft; water length is 13.45

3 purge vols (gals) = $3(0.04 \times 13.45) = 1.65$

Start time of 1115 purging

purge rate of 591 ml/s in 4.5 minutes; $\frac{4.5 \text{ mins} = 270 \text{ s}}{591 \text{ ml} = 132 \text{ gals}}$

Time to purge 665 gallons is 1:34 min

Time Volume Temp Cond DO pH ORP Turb

11:43.5 26.89 1.86 7.54 7.55 -102 363

Paused purge at 11:44 AM

Restart purge works at 12 noon

1200.5 26.79 1.60 6.49 7.09 -85.7 103 NTU

Location Red Panther

Date 10/10/07

Project Ident TWA-05-003-0004

Weather clear at mid 80's

Time vols Temp Cond DO pH ORP Turb

1220 1.5 26.11 1.89 7.57 7.21 -84.8 85.1 NTU

1230 1.65 25.39 1.64 5.28 6.95 -104 105

* stop purging at 1230 and begin sampling TW-07

1235 collect 3 VOA's

1236 start collect of 2 Poly's

1245 complete poly collection, begin Amber collection

1315 completed collection of 4 Amber bottles per Andy

1340 prep development of TW-09 at 35 foot well

10.31 water and total depth of 35 ft

18.69 ft of water column yielding 1 well volume

of .77 gallons, 3 well volumes is 2.30 gallons

1352 - Start development of

RP-TW-09 (Adam Davis)

Pump rate = 0.07 gpm

Turbidity (initial) = > 1000 NTU

turbidity @ 415 = 216 NTU

1420 U-Thompson return lunch after leaving before

plug at RP-TW-09 at 1340; change power source

from Battery to Vehicle

1440 Turbidity check at 92.9 NTU

1451 Turbidity reading is 59 NTU

1455 turbidity reading is 201

1500 Purge begin at 1500 hrs, collected 4.5 gallons of

developed water in approx, 1 HR

Average pump rate for development = 0.11 gpm

Location Red Panther

Date 10/10/07

Project / Client TWA-0509

Weather at about 850 with clear skies

Time	Vol/gal	Temp °C	cond µS/cm	DP mg/l	P.H.	ORP mV	TURB NTU
1505	.38	25.12	.610	1.21	6.97	-92.1	216
1515	.74	24.86	.607	1.39	6.91	-87.7	192
1525	1.14	24.46	.603	1.47	6.89	-78.2	165.8
1535	1.53 ^{1.53} _{SAE}	well purged dry @ 35 ft.					
1545	1.98 ^{1.98} _{SAE}	will allow well to recharge					
1555	2.38 ^{2.38} _{SAE}	overnight, & sample on 10/11/07.					

Purge rate of 35ml in ~~35~~ ³⁵ min = ~~1.33~~ ^{1.33} _{SAE}

time to purge is 8 mins to ~~35~~ ³⁵ min

Complete for Day of 09 and begin packing at 1000hrs ^{SAE}

Purge rate of 0.04 listed above is incorrectly reported. Purge rate must have exceeded rate of

development of 0.07 gpm due to fact that well purged dry after 35 minutes. Actual purge volume should have been > 2.45 gallons.

1640 - K. Patten & M. Thompson

depart site for Fed Ex.

Location Red Panther

Date 10/11/07

Project / Client TWA-05-CC3-0001

Weather Clear low 60's High 70's

0730 TWA & Miller on-site
 0750 Sample TW-09 - full sweep
 0840 start develop TW-01
 TD 35' DTW - 22.80
 0855 Dried well to 30' recharged to 27' in 30 min. Developed .75 gal.
 0930 Aurostar on-site. Adam left to get string to bail TW-01 Drgs
 0939 Miller developed 8 gal from TW-02 developed from 0800 to 0900
 Began bailing TW-02 at 1000 bailing is dry. it bailed dry at 1018 ^{SAE} was ~~developed~~ dry
 moving to TW-02 at 1015
 well was developed by drillers, from 800 to 900, total development volume was 8 gallons
 total well depth is 35 feet
 initial depth to water 9.3 ft
 length of column is 35 - 9.3 = 25.7 feet
 1 well volume is 1.02 gallons
 total purging amount is 3.06 gallons
 (length of column (ft) x 0.041 x 3)
 beginning purge of TW-02 at 1030 -
 purge rate of 0.560L in 1 min

$$\frac{.56}{1 \text{ min}} = \frac{1 \text{ gal}}{3.785 \text{ L}} = 0.13 \text{ gal/min, adjusted flow to } 0.125 \text{ gal/min}$$

Location Red Panther Date 10/11/07
 Project / Client TNA-05-003-0004

time	vol	temp	cond	do	pH	orb	turb
HH:MM	gals	°C	µS/cm	mg/L			ntu
1040	0.2	20.54	2076	3.38	7.01	-81.8	724
1045	0.8	20.60	2084	1.20	6.96	-91.8	538
1050	1.5	20.82	2084	0.68	6.91	-92.1	373
1055	2.0	20.83	2090	0.96	6.95	-90.3	267
1100	2.5	20.84	2094	0.54	6.95	-88.5	196
1105	3.0	20.87	2094	0.69	6.88	-86.4	112

stepped page at 1106

began sampling at 1107

samples consisted of (2) 1L poly's (cyanide + metals),
 (3) 40mL vials (volatiles), and (6) 1L ambers (pesticides,
 PAH + SVA's)

stopped sampling at 1131

broke for lunch at 1132

returned to site @ 1228

RP-TW-01; depth to water 24.00 feet -

1240 Return from lunch and begin sampling at

TW-01, water depth is 24.01, well was

initially developed dry, sampling begin with no
 parameters, 3 von 1 poly 1.5 amber

1315 sampled drums.

1400 called Mr. Perry he stated

To leave keys in grill next
 to front office

Location Red Panther Date 10/11/07
 Project / Client TNA-05-003-0004

1418 photo 14 3 purge + Dew
 drums.

1415 Loid gates off - 5.3e

~~RP~~

18

Location

Date

Project / Client

Location

Red Bank, MS

Date

2009

Project / Client

Chavis Dale, MS

START GENERATOR HAS Agg With LWR
 Contractly Available. Qualitative Issues
 With The Background Sample Collected
 At A Point ~ 0.5 Miles North Kenson
 Several Level I Residues Unusable In
 Scoring. Concern Over Attribution
 Also Demonstrate Need For Additional
 Sampling.

EPA TASKS START TO DEVELOP/IMPLEMENT
 SAMPLING INVESTIGATION TO DETERMINE
 IF PESTICIDES CONTAMINATION FOUND
 IN RESIDENTIAL YARDS IS FROM RED
 BANKER ACTIVITIES OR FROM AGRICULTURE
 APPLICATION TO NEARBY FARM FIELDS,
 AND PROVIDE ADDITIONAL SIMILAR-
 SETTING BACKGROUND SAMPLES.

2010

START GENERATOR SAA/OAPP AFTER
 SCORING CONSULT FROM EPA - EDT ON
 DESIGN & STRATEGY.

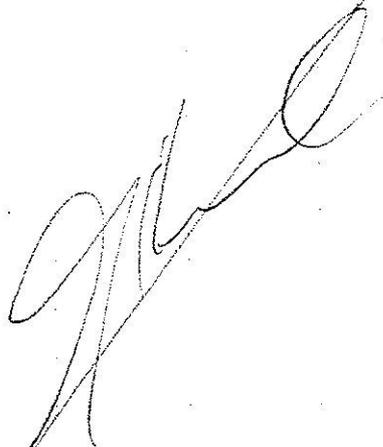
"20

Location Red Bank

Date 5/20/10

Project / Client

SUBMIT REV 0 OF THE RED BANK
SAP/QRAP AIR DEPOSITION STUDY TO
EPA. BEGIN WORKING / IDENTIFYING
ACCESS NEEDS.



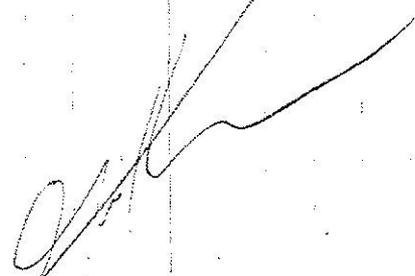
Location Red Bank

Date 6/8/10

Project / Client

Classical MS

TRAVEL TO CHARLESTON TO PORTAL
SAMPLE LOCATION REVIEW & COLLECT
ADDRESSES / PROPERTY INFO. START
SEEK OUT LOCATIONS OF UNBROKEN
SOIL MEASURING 25' x 25'.
SEND PROPERTY INFO IDENTIFIED
TO EPA TO BEGIN OBTAINING ACCESS
TO SAMPLE LOCATIONS.



Location Road Panther Date 6/22/10
 Project / Client _____

START MEETS W. AN EPA IN CLARKSBORO
 TO ASSIST WITH FINAL ACCESS TO
 SAMPLING LOCATIONS. MOST POINTS
 SELECTED FOR SAMPLING HAVE HAD ACCESS
 OBTAINED. ONLY THE COMMERCIAL PROPERTY
 OWNED BY SCOUTER TO THE SOUTHWEST OF
 ROAD PANTHER DENIES ACCESS DUE TO
 A PENDING SALE OF THE PROPERTY.
 MORE LOCATIONS TO THE SOUTH, WEST, &
 RIGHT OF WAY TO EAST. SOUTHERN
 SAMPLES TO BE COLLECTED AT THE
 JIMMY SANDERS INC. PROPERTY. MR.
 JIMMY HOOPER EXPLAINS THAT COTTON
 WAS THE DOMINANT CROPPING FOR
 OVER 100 YEARS AND THAT GENERALLY
 TOXAPHEN & METHYL PARATHION WOULD
 THE PESTICIDES APPLIED TO COTTON.

Location Road Panther Date 6/24/10
 Project / Client CLARKSBORO, MS

STARTS KOWALSKI, STUBBS, FORNIO,
 FAXLUX, AND OBERMAYER MOBILIZE
 TO CLARKSBORO FOR SAMPLING EVENT.
 START WILL COLLECT A 9-PT COMPOSITE
 SAMPLE FROM A 25'x25' GRID AS BELOW

T
 N
 ↓
 ← 25' →

FROM THE TOP 3' OF SOIL. ALL SAMPLES
 WILL BE COLLECTED IN ACCORDANCE WITH
 THE SCSO FASO AND THE OTIC FASO DATA
 6/25/10. START WILL COLLECT GPS
 INFO FROM CENTRAL LOCATION & WILL MEASURE
 THE FURTHEST DISTANCE FROM ALIQUOT TO STRUCTURE
 SAMPLING TOOLS WILL CONSIST OF ONLY CLEAN
 STAINLESS STEEL BOWLS & SPOONS. NO DIRT ON
 IN FIELD - ALL DONE PRIOR TO ARRIVAL.
 PLINATE SAMPLES WILL BE COLLECTED FROM
 REPRESENTATIVE CLEAN BOWLS / SPOONS.

24

Location Red Pan - Hood Date 6/29/10

Project/Client CLARKSON, MS

Conditions: Hot, Humid 80-95

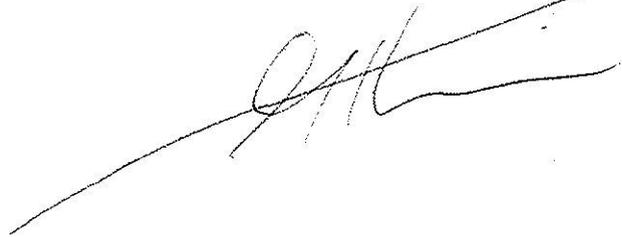
- 0615 STAFF TEAM DEPARTS HOTEL IN BATESVILLE FOR CLARKSON.
- 0700 ARRIVE AT CITY WORKS LOCATION & SET UP STAGING (ACCESSING AREA).
- 0730 STAFF NOTICES ALL SAMPLING ACCESS AGREEMENTS FROM EPA.
- 0740 HOLD SAFETY MEETING - TOPICS HEAT STRESS. THEN HEAD TO LOCATION ZACS-71. SAMPLING OF SPECIFIC LOCATIONS DESCRIBED ON THE FOLLOWING PAGES 26-55.

1250 BREAK FOR LUNCH

1320 HEAD TO 32-17TH ST. TO RESUME SAMPLING.

SEE PAGES 46-55 FOR GENERAL SAMPLING DETAILS.

LATE DAY EVENTS DESCRIBED ON Pg. 56.



25

Location Red Pan - Hood Date 6/29/10

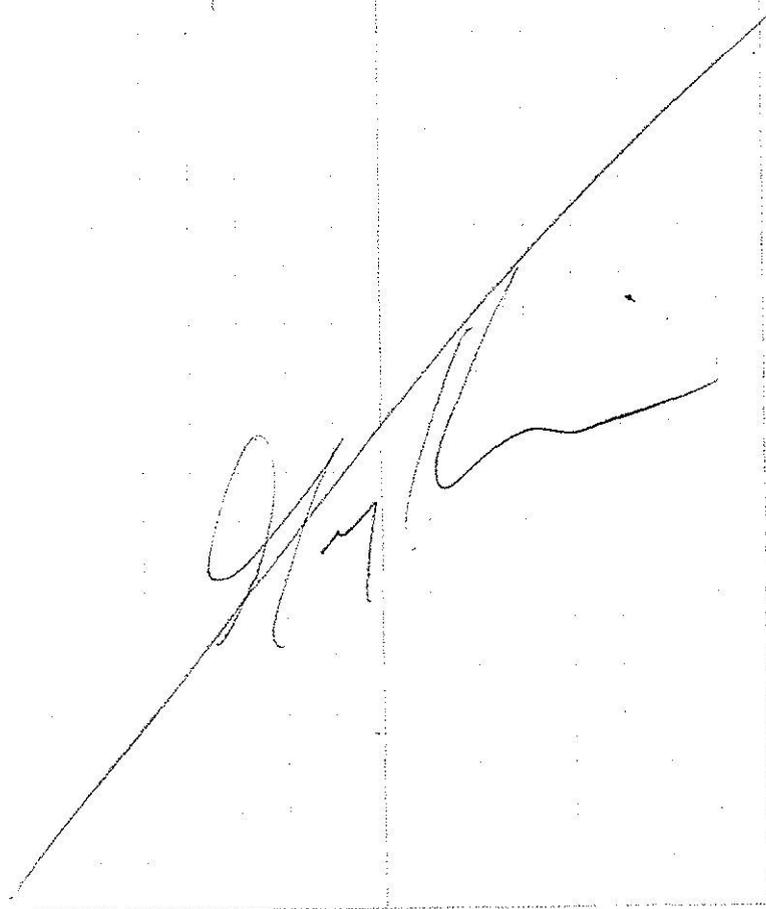
Project/Client CLARKSON, MS

Air Deposition Sampling Event

SAMPLING ON 6/29/10 DESCRIBED ON THE FOLLOWING PAGES 26-55.

COLLECT THE FOLLOWING SAMPLES ON 6/29 (SAMPLING 26-55)

SAMPLING PROCEDURES LISTED ON A Z 3.



Location Red Panther Date 6/29/10

Project / Client

RR-CS-71



DRAIN
INDOORMENT

Blog

34° 11' 05.239" N
90° 33' 45.510" W

(54' FROM
Blog)



Clarksdale
Public Works
Compound

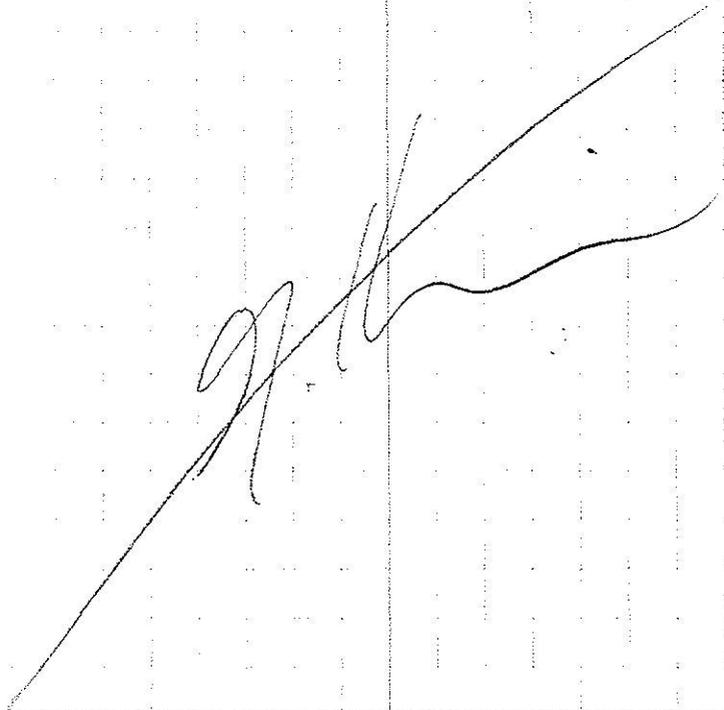
BPS Centre: Lister Avenue ↗

Location Red Panther Date 6/29/10

Project / Client

RR-CS-71

- 0745 Setup at location and planning
out sampling grid.
- 0750 Collect sample from 9-AT5608
Previous Pq). Soil Type is A. Brown
SANDY LOAM, COLLECTED FROM GRASSY
AREA NORTH OF TANK, SOUTH OF INDOORMENT.
DISTANCE TO FURTHEST ALIQUOTS 54'.
Grids 25' x 25'.
Photokills 103-1912 thru -1916.



Location

Date 6/29/10

.....

Location

Date 6/29/10

.....

30

Location Los Angeles

Date 6/29/10

Project / Client _____

31

Location _____ Date 6/29/10

Project / Client _____

32

Location Los Angeles

Date 6/29/10

Project - Client

33

Location

Date 6/29/10

Project - Client

34

Location Los Pinos Date 6/29/10

Project / Client: _____

35

Location _____ Date 6/29/10

Project / Client _____

36

Location Roop Point Ave Date 6/29/10

Project / Client _____

37

Location _____ Date 6/29/10

Project / Client _____

38

Location

Cos Wx - tree

Date

6/29/10

Location

Date

6/29/10

39

20

Location

Costa Rica

Date

6/29/10

Location

Date

6/29/10

42

Location

Red Paw Hook

Date

6/29/10

Location

Date

6/29/10

43

44

Location Red River Date 6/29/10

Project: Client

Location _____ Date 6/29/10⁴⁵

Project / Client

46

Location _____

Date _____

Project / Client

Location _____

Date

6/29/10⁴⁷

Project / Client

48

Location _____

Date _____

Location _____

Date

6/29/2010

49

50

Location _____ Date _____

Project / Client _____

51

Location _____ Date 6/29/2010

Project / Client _____

Location

Date

Location

Date

6/29/2010

53

54

Location _____

Date _____

Project / Client _____

55

Location _____

Date 6/29/2010

Project / Client _____

Location Roop Ranch Date 6/29/10

Project / Client

- 1635 DEPART 112 Cherry St (Big location)
FOR PUBLIC WORKS BUSY TO DROP
SAMPLES & PROCESS FOR SHIPMENT.
- 1715 WITH SAMPLES ARRIVED, STARTS
HOWALSKI, FRANK, & BRADIOUS DEPART
PUBLIC WORKS COMPOUND TO MEET WITH
STARTS STOPS & DELIVERING WHO
ARE STILL SAMPLING.
- 1730 DEPART CLARKSDALE FOR BATESVILLE
FED EX TO DROP SAMPLES.
- 1815 DROP SAMPLES AT FED EX & HEAD
TO HOTEL.
- 1830 ARRIVE AT HOTEL.
END OF DAY.

[Signature]
6/29/10

Location Roop Ranch Date 6/30/10⁵⁷

Project / Client

Weather: DAY, 75-90

- 0615 STARTS DEPART BATESVILLE HOTEL
0700 ARRIVE AT CLARKSDALE PUBLIC WORKS
COMPOUND (STAGING AREA) AND ARRIVED
TO SAMPLE.
- 0740 SATURDAY MORN HEAT GRASSY, GOOD WIND
0750 HEAD TO BOONVILLE WASHINGTON SCHOOL TO
SAMPLE.
- SAMPLE SPECIMEN #20 FOR G3010
LOCATION ON PAGES 59-87.
- 0800 BREAK ROOM LUNCH.
- 0830 HEAD TO PUBLIC WORKS TO MEET UP
WITH MORGAN ROBERT HUCKABY &
RESUME SAMPLING.
- 0930 RETURN TO PUBLIC WORKS TO
PROCESS SAMPLES COLLECTED &
PREP FOR SHIPMENT.
- NOTES FOR END OF DAY CONTINUED
ON PAGE 88.

[Signature]
6/30/10

Location 1200 Penn Ave Date 6/30/10Project / Client RA-CS-5518th ST

Parking Lot



School Blog

Furthest Aliquot Distance = 47'

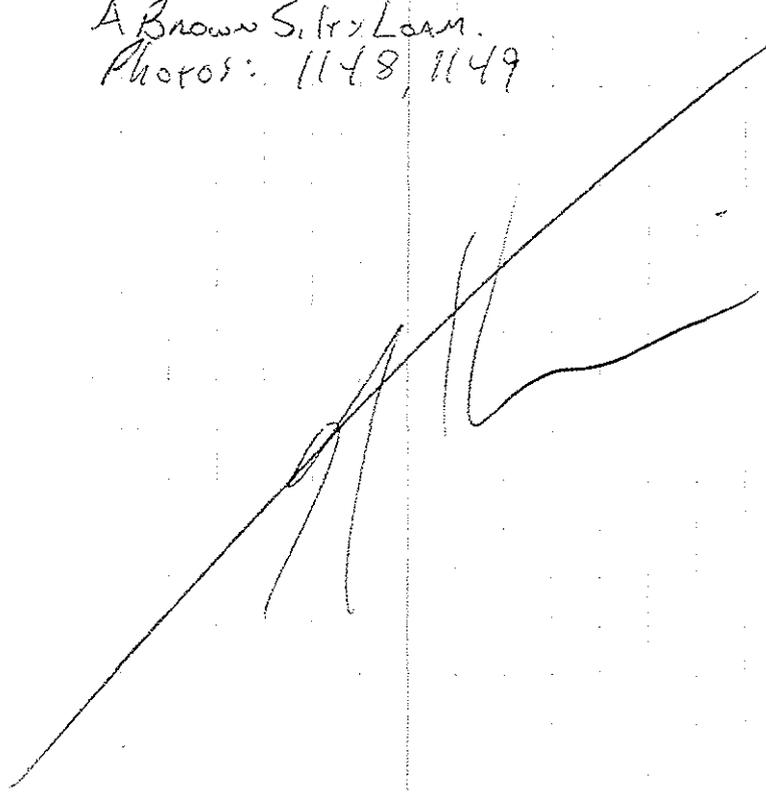
GPS Center: 34.185991
90.567595

Photo:

Location _____ Date 6/30/10Project / Client RA-CS-55

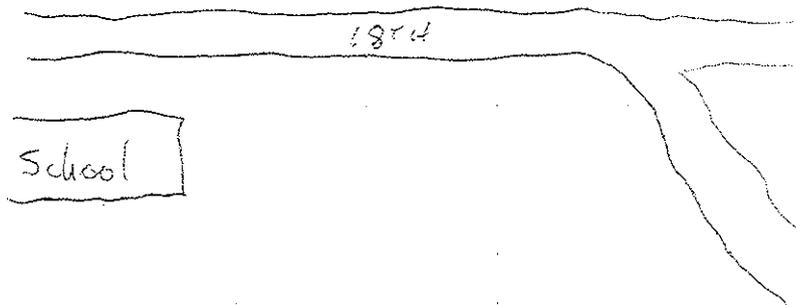
0800 Arrive At Brooklet Washington
Elementary School AND MARK GRID
FOR SAMPLING. THIS GRID AT SCHOOL
LOCATED IN GRASSY MAINTAINED FRONT
YARD NORTH OF THE SCHOOL BLOG.

0815 Collect 9-A. Core Soil Sample From
THE 25' x 25' GRID. SOIL TYPE IS
A Brown Silty Loam.
Photos: 1148, 1149



Location 1200 Panther Date 6/30/10

Project / Client

RA-CS-67

PLAYGROUND

* For those Aliquot To School Bleg = 370'

GPS Center: 34.184975
90.566427

Photos:

Location _____ Date 6/30/10

Project / Client

RA-CS-67

0820 Arrive Behind School & Grab Out
Sample Aliquots. Sample Collected
In MAINTAINED GRASSY FIELD EAST
OF PLAYGROUND, ~ 350' SOUTH EAST
OF School.

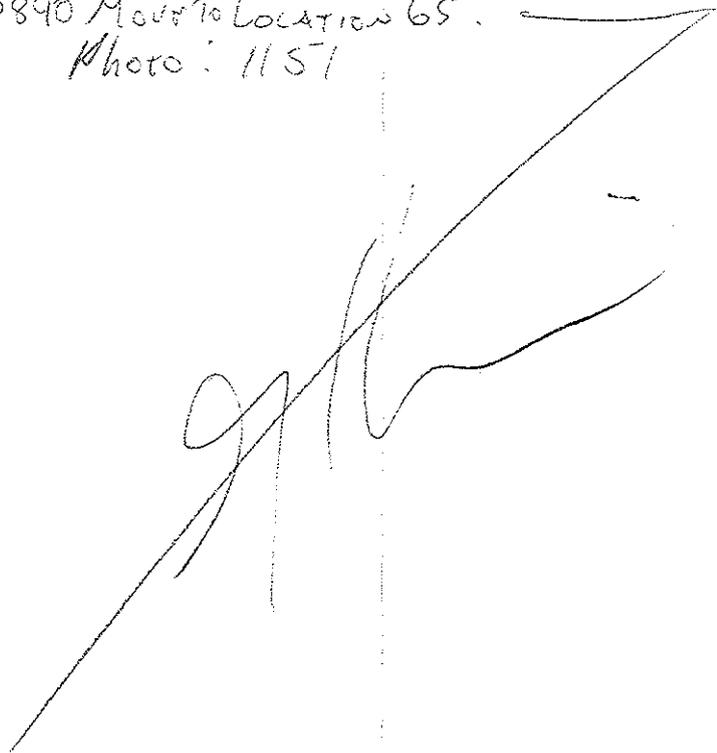
Soil Type Is A BROWN SILTY LOAM.

~~0840 Move To Location 65. (JIC)~~

0830 Collect Sample RA-CS-67 (Soil Type)

0840 Move To Location 65.

Photo: 1151



Location Red Pine Area Date 6/30/10

Project / Client

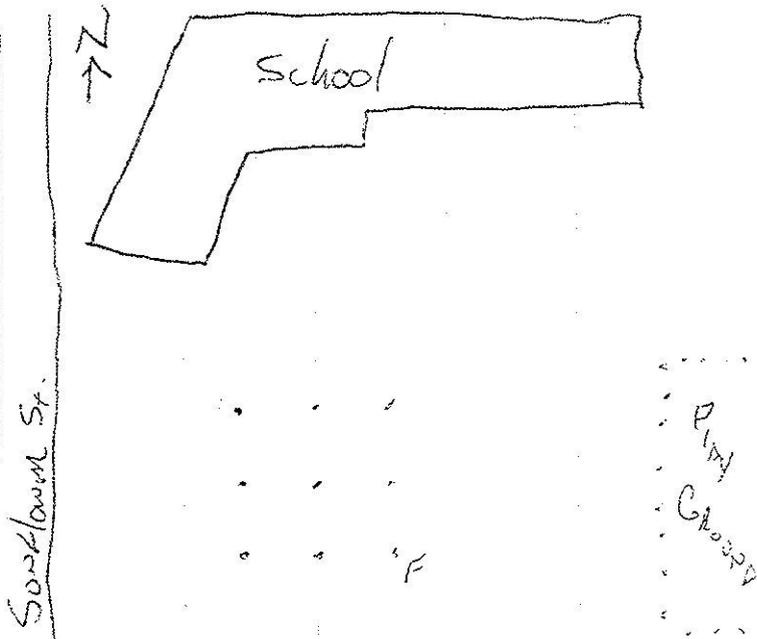
RP-CS-65

Photo: 1152, 1153

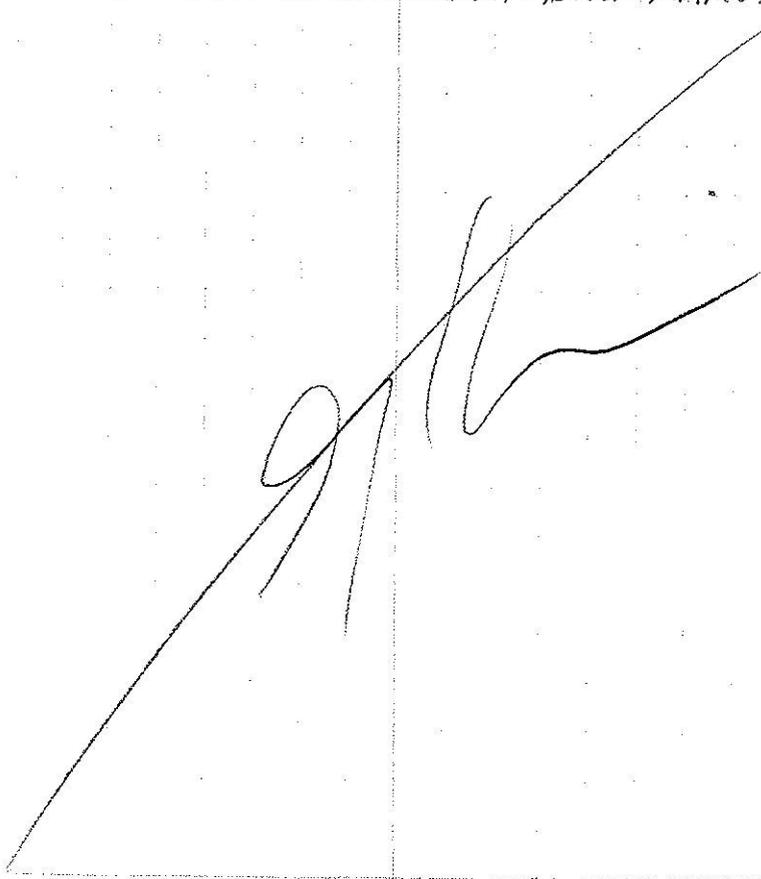
FFORTHMOST ALIQUOTE DISTANCE = 120'

GPS Control: 34.194958
90.568516Location _____ Date 6/30/10

Project / Client

RP-CS-65

0845 SETUP GRID SAMPLE AREA IN THE
GRASSY MAINTAINED FIELD/LAWN SOUTH
OF THE SCHOOL (~100' SOUTH OF BLDG CORNER)
0900 COLLECT SAMPLE RP-CS-65.
SOIL TYPE IS A BROWN SILTY LOAM.
0915 HEAD TO PUBLIC WORKS TO DROP SAMPLES.



64

Location

Kos. Pr. Area

Date

6/30/10

Location

Date

6/30/10

65

66

Location

Coos Bay, OR

Date

6/30/10

Location

Date

6/30/10

67

Location Rocky Mountain Date 6/30/10

Project / Client

Location _____ Date 6/30/10

Project / Client



70

Location

Rocky Mountain

Date

6/30/10

Location

Date

6/30/10

71

Location _____ Date _____

Project / Client _____

PAGE NOT
USED

[Handwritten signature]

Location _____ Date _____

Project / Client _____

PAGE NOT
USED

[Handwritten signature]

74

Location Red Panther

Date 6/30/10

Project / Client

75

Location Red Panther

Date 6/30/10

Project / Client

76

Location

Red Panther

Date

6/30/2010

Location

Red Panther

Date

6/30/2010^{TT}

78

Location Red Panther

Date 6/30/2010

Project / Client

79

Location Red Panther

Date 6/30/2010

Project / Client

80

Location Red Panther

Date 6-30-2010

Project / Client

81

Location Red Panther

Date 6/30/2010

Project / Client

Red Panther

6/30/2010

RP-CS-11

I N

Building

Parking lot

Desoto

GPS - 24.199 DP
 34.189930
 90.561649
 PIC #651166

ARDENNES ST



Red Panther

6/30/2010

RP-CS-11

- 14:52 - Set up Grid system @ 1047 Desoto
 on side of Greaber Bros Propane
 Grid system set up in side
 yard of Greaber Building
- 15:00 - collected Soil Sample RP-CS-11
 Soil Type is: ~~Dark~~ Brown silty
 loam, Furthest aliquot is
 39 FT



Location Red Panther Date 6/30/2010

Project / Client

RP-CS-63

1
2

Large Ditch

Fence

GPS - 34.185655
90.558667D.P. 1167 & 1168
~~1166 & 1167~~

Parking

AIR GAS

Desoto

Location Red Panther Date 6/30/2010

Project / Client

RP-CS-63

15:12 - Arrived Arrived at Air Gas @ 1350

Desoto, setup grid system
in gassy well maintained
lot next to Building15:30 - Collected soil sample RP-CS-63
Soil type is: Brown silty loam
Furthest Aliquot is 25 ft

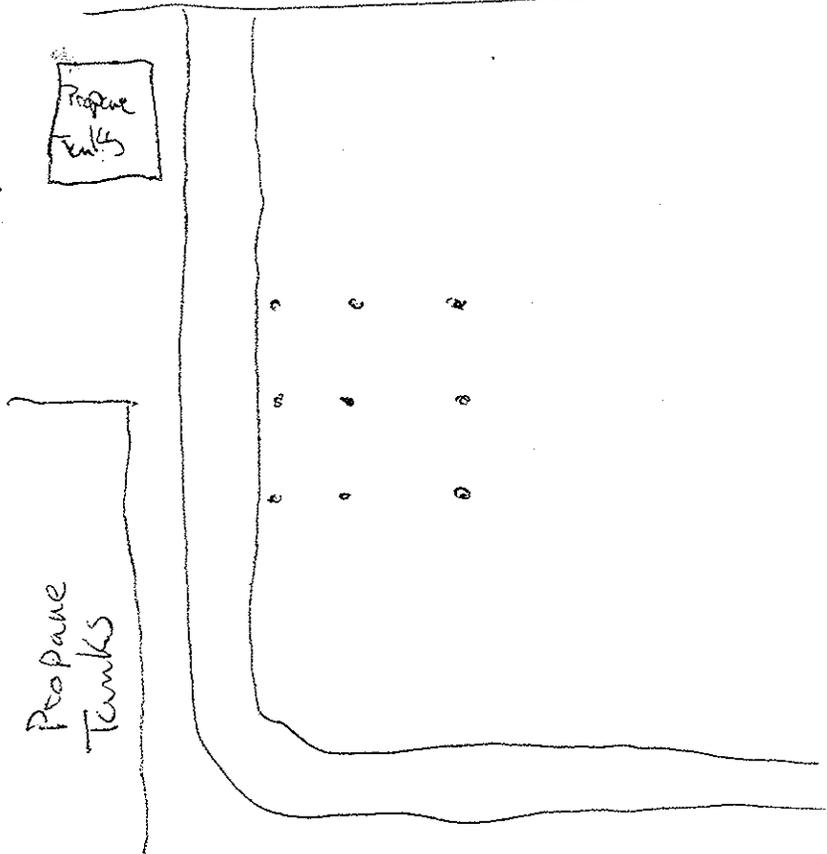
DF

Location Red Panther Date 6/30/2010

Project / Client RP-CS-21

1 GPS
 34.189098
 N 90.563486
 P.C. #68 ~~1169~~

ARDAMES ~~E. Tallahatchie St~~

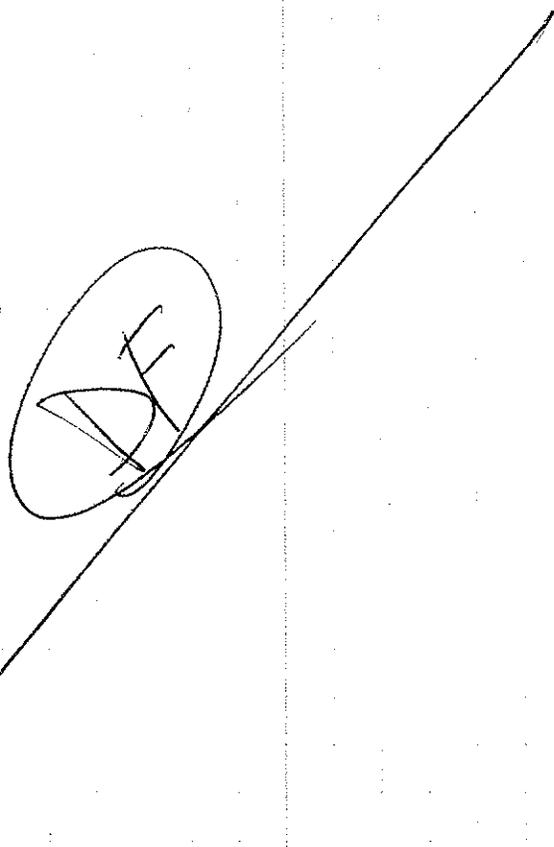


Location Red Panther Date 6/30/2010

Project / Client RP-CS-21

16:00 - set up grid system in grassy field next to propane tanks @ E Tallahatchie St

16:10 - soil sample taken it is number RP-CS-21



Location Red Panther Date 6/30/10

Project / Client

- 1630 Return to Public Works to
Prep/Process Samples for shipment.
- 1710 START FRATEY & STUBBS DEPART
CHARROALE FOR BATESVILLE FOR EX.
- 1715 START KOWALSKI GOES TO LIFT
STATION SOUTH OF RED PANTHER TO
TEST KEY FOR LIFT STATION TO OBTAIN
ACCESS.
- 1730 KEY DOESN'T WORK - START WILL NOTIFY
PUBLIC WORKS TOMORROW. START KOWALSKI
DEPARTS CHARROALE FOR BATESVILLE.
STARTS BERRIOS AND DELARIONTAIRE
CONTINUE TO SAMPLE LOCATIONS.

[Signature]
6/30/10

Location Date 7/1/10

Project / Client

- 0700 STARTS ARRIVE AT PUBLIC WORKS
TO REVIEW WHAT SAMPLES REMAIN &
TO PAGE FOR SAMPLING.
- 0745 SAMPLING TEAM STUBBS/DELARIONTAIRE
DEPART PUBLIC WORKS TO RETURN SAMPLING
- 0800 SAMPLING TEAM KOWALSKI/FRATEY GET
LIFT STATION OPENED TO BEGIN
SAMPLING THERE.
- SAMPLE SPECIFICS FOR 7/1/10
ARE DETAILED ON PAGES 90-103.

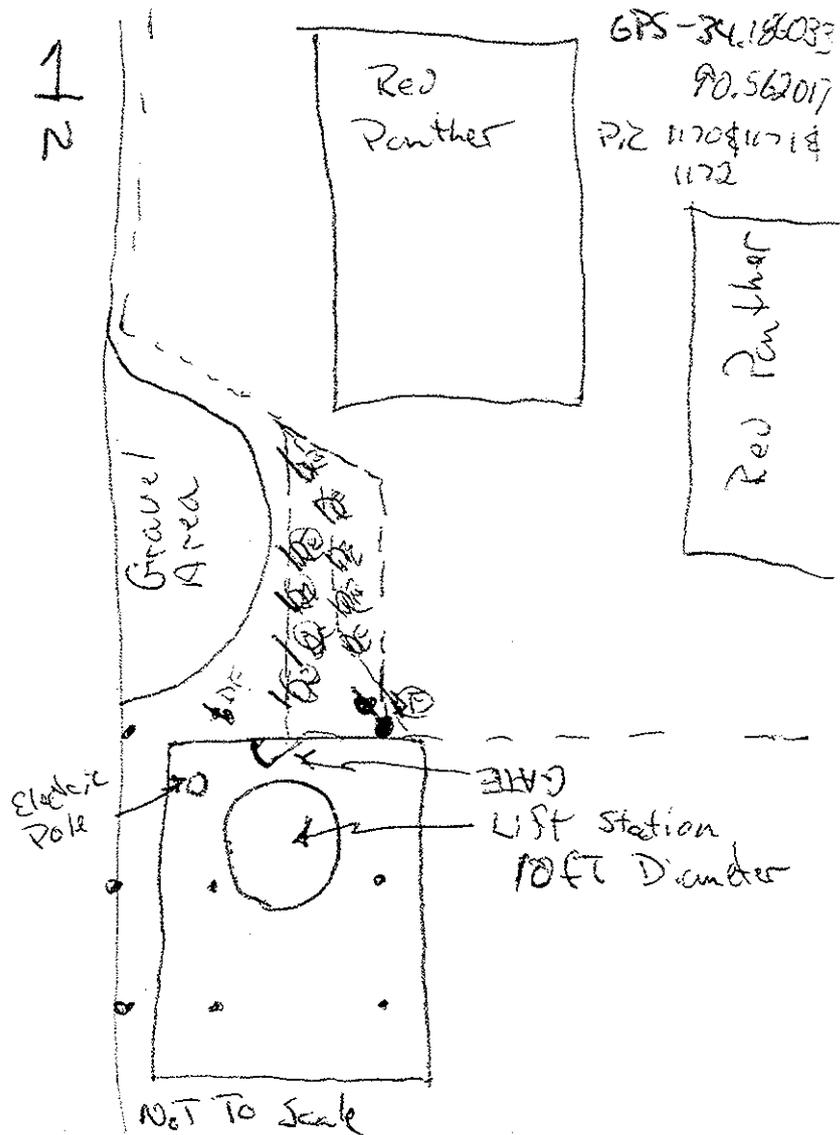
[Signature]

90

Location Red Panther Date 07/01/2010

Project / Client

RP-CS-61



Location

Red Panther

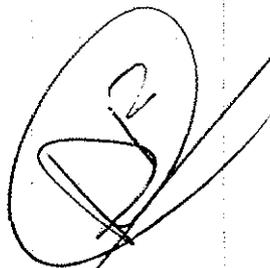
Date

07/01/2010⁹¹

Project / Client

RP-CS-61

- 28:10 - set up G.D system at
Clarkdale sewer lift station
The area has the ~~appearance~~^{DP DP} look
of weed killer being used.
- 28:20 - sample RP-CS-61 collected.
Soil Type - Brown silty loam
with gravel



92

Location Red Panther

Date 07/01/10

93

Location Red Panther

Date 07/01/10

F 94

Location _____

Date

7/1/10

Location _____

Date

7/1/10

95

Red Panther

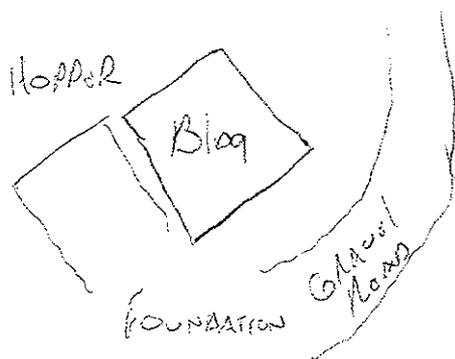
7/1/10

RP-CS-51

N
↑

GPS Center: 34.186314 90.563119

Photos: 1176, 1177

Mississippian
Limestone
(Common Concrete Mix)

FOUNDATION

Houses

Red Panther

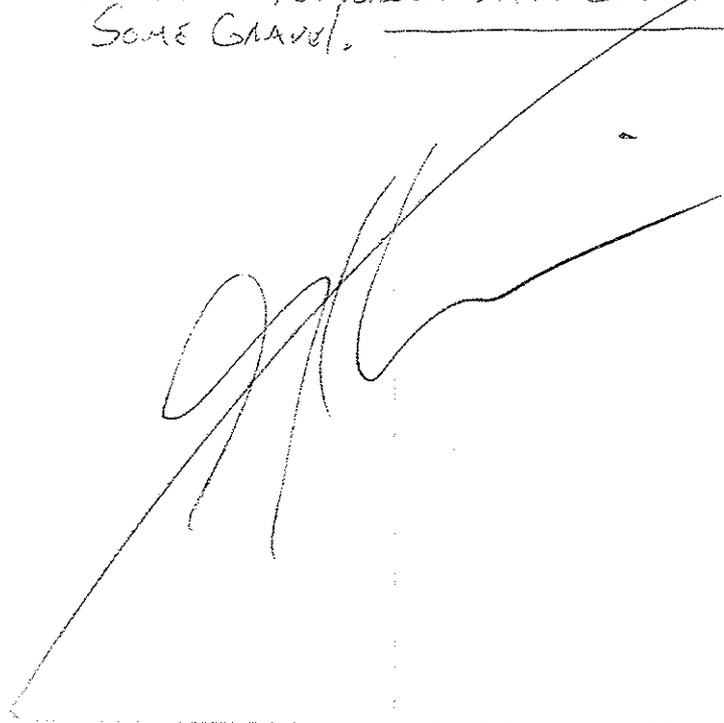
Red Panther

7/1/10

RP-CS-51

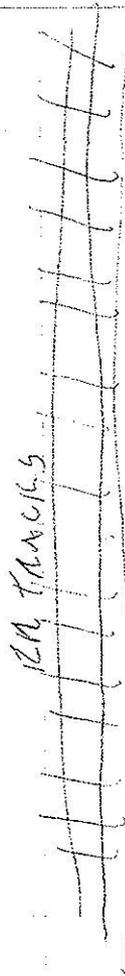
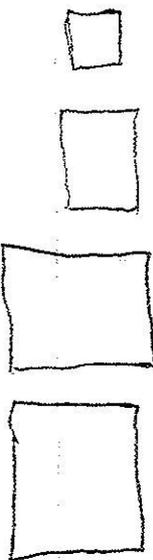
0955 ARRIVE AT Ms. LIMESTONE PROPERTY
AND SPOT LOCATION (GRID. PREVIOUS
GRID IS LOCATED ON FORMER CONCRETE
FOUNDATION.1015 SET NEW GRID EAST OF PREVIOUS
LOCATION - 100' IN TALL GRASSY
(UNMAINTAINED) AREA.

1020 COLLECT SAMPLE RP-CS-51.

SOIL TYPE IS A BROWN SILTY LOAM WITH
SOME GRAVEL.

Location Road Project Date 7/1/10Project / Client RA-CS-41

N

MS
LIMESTONE
CORP.

E. Tallhatchie St.

R.D. Archer

GPS Center: 34.187735
90.563569

Photo files: 1178, 1195

Location _____ Date 7/1/10Project / Client RA-CS-41

- 040 Move ~ 300' North of RA-CS-51 AND
Locate / GAIN RA-CS-41 EAST OF
CONCRETE BLOCK BLDG, ~ 30' WEST
OF RR TRACKS.
- 00 Collect Sample RA-CS-41 FROM GRASSY
FIELD EAST OF CONCRETE BLOCK BLDGS.
GRASS HAS BEEN MAINTAINED/MOWED.
SOIL TYPE IS A BROWN SILTY LOAM
WITH SOME GRAVEL.
- 115 HEAD BACK TO PUBLIC WORKS STAGING
AREA TO DROP OFF SAMPLES.
- 140 BREAK FOR LUNCH.
- 115 SCOUT LOCATION - 75' AND ASSIST
OTHER TEAM WITH PLACEMENT.
- 225 HEAD TO LOCATION - 68.

R. O. Kankana

7/1/10

RP-CS-68

7/1/10

RP-CS-68



All Blocks - Excess of 300' from Grid.

GPS Coord: 34,184,991
90,565,404

Photo Files: 1186, 1187

130 Setup / Grid Out Location - 68
 145 Collect RP-CS-68 from Maintained
 Grassy Field with the Rustic Windows
 Compound ~ 300' West of Large
 Tank. Grid 1/4 Offset ~ 15' East
 to Move Off Gravel Road.
 Soil Type is A Brown Silty Loam.

102

Location

Red Panther

Date

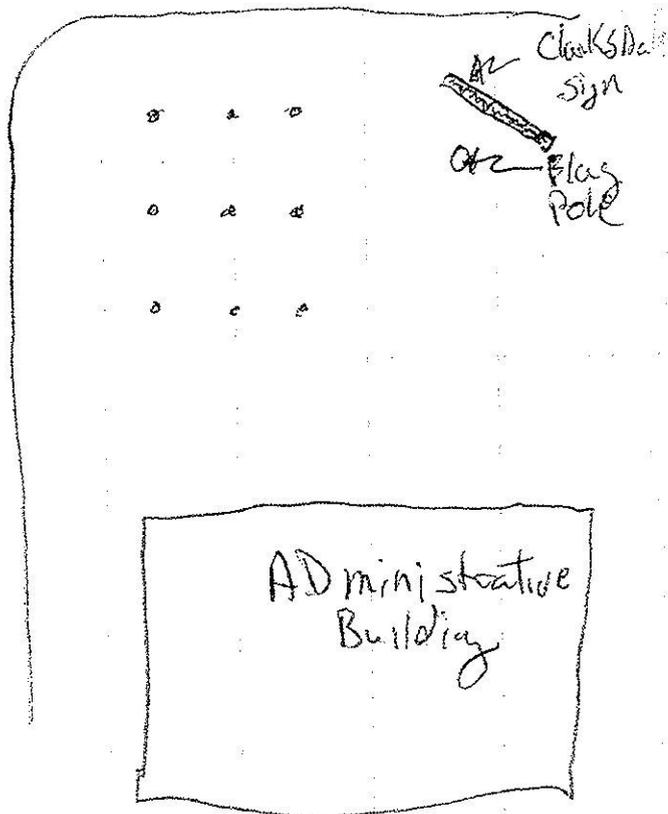
07/01/10

Project / Client

RP-CS-72

CPS 34.184392
90.561892

PIC 488 & 1189



103

Location

Red Panther

Date

07/01/10

Project / Client

RP-CS-72

13:15 - set up grid system in front of Administrative building @ the city of Clarksville utility complex. Sample was set in a well maintained grassy area. furthest aliquot is 45ft. Grid moved because of the

13:20 - collected sample RP-CS-72. Soil type: Brown silty loam. The grid was moved because of the issues.

~~DFC~~

Locator Red Panther Date 7/1/10

Press / Clerk

1345 Return To Sample Staging Area
To Process/Pack Samples For Shipment
To GSD

1500 Starts Break Down / Clean Up
Staging Area At Public Works Area
& Head For Food. Start Kowalski
Thanks Mr. Hughes For Use Of The
Facilities During The Event And
Ensures Area Was Clean And Reserve
As It Was Found.

1530 Start Kowalski. Contacts EPA To
Ralph Howard To Update And Not
Of Completion Of Sampling.

1600 End Of Day - Starts Will Demos
Back To Atlanta/Marietta Tomorrow

~~John~~
7/1/10

Red Panther Date 7/2/10

Press / Clerk

Starts Mobilize Bail To Home
Office, Offload Vehicles & Return
Rental Vehicles.

Analtical Is Expires Within 45
Days (14 For Analysis, 30 For Validation)

~~John~~
7/2/10

Location _____ Date _____

Project / Client _____

CLARKSDALE PUBLIC UTILITIES

HON HUGHES

SUPPORT SERVICE SUPERVISOR

P.O. BOX 70 662-627-8407
CLARKSDALE, MS 38614 FAX: 662-627-8448
E-MAIL cpucad@cableone.net CELL: 662-902-0150

CLARKSDALE PUBLIC UTILITIES

MIKE VONALLMEN

MAINTENANCE SUPERVISOR

P.O. BOX 70 662-627-8419
CLARKSDALE, MS 38614 FAX: 662-627-8421
E-MAIL cpuiotech@cableone.net CELL: 662-902-0917

Robert HUGLASY
601-961-5360
- 953 -

The num
Shot
this
we'd

Alter
page

To or
-Rate



Tire & Service Center

Justin Downs

1101 Highway 49 South
Clarksdale, MS 38614

Phone: 662-627-1118

Fax: 662-624-8670

E-mail: 12office@dktire.com

TIRES • WHEELS • BRAKES • SHOCKS • ALIGNMENTS

"WE GO THE DISTANCE
FOR YOU"

Common Field Data Error Codes:

Error oc
and are
Commo

RE
CE
TE
SE
CL
DC

WO
NI
OB

Note: E

Jimmy

SANDERS, INC.

PHONE: (601) 627-4752 • P.O. BOX 1056
CLARKSDALE, MISSISSIPPI 38614

JERRY HUDSON

HOME: (601) 627-4367
MOBILE: (601) 624-0309

S M C

Class
Class
Class
Class

Chapel Hill

Property Management

P. O. Box 1350, Clarksdale, MS 38614

Class
Class
Class
Class
Class

AATS

Phone: 662-627-7884

Fax: 662-627-7886

vjohnson@southlandmanagement.com

Vivian S. Johnson, Northern Region Supervisor

Cr

BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug •
AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle •
CWM - Clear Wide Mouth

"Rite in the Rain"

ALL-WEATHER WRITING PAPER



ALL-WEATHER
ENVIRONMENTAL FIELD BOOK

Name *Kelly Padden TN26*

Address

Phone

Project *Red Feather Chemical Company
Clarksville, Coahoma County, MS
TDD No. TNA-05-003-0004
BOOK 2 of 2*

This book is printed on "Rite in the Rain" All-Weather Writing Paper, a unique paper designed to stand water and continue the writing process. It is only used throughout the world because of that "rite" that is in it. It's the reason for its name. It's the reason for its success.

Printed in the U.S.A. by Rite in the Rain, Inc., 10000 Rite Way, Dayton, OH 45424. © 1997 Rite in the Rain, Inc.

0174 1 285-460001

CONTENTS

PAGE REFERENCE DATE

16-108 June 2016 Sampling event

Reference Page Index

107	Site information and location
108	Sampling plan and protocol
109	Sampling equipment and materials
110	Sampling procedures and methods
111	Sampling results and data
112	Sampling quality assurance
113	Sampling safety and health
114	Sampling ethics and regulations
115	Sampling documentation
116	Sampling storage and handling
117	Sampling disposal and recycling

4 Location Red Panther Date _____

Project/Client _____

Clarksdale Utility Dept.

1502 Spoke w/ Rusty → showing
us Clarksdale well 08
(shallow) - RP-MW-04

1505 - Arrive at Clarksdale
well #14 → TN+A RP-MW-02
(deeper)

→ pre-cleaning - turn
on well

1518 Start sampling & collect-
ing duplicate

1530 Raining - continue sampling

1535 Sit in truck

1547 Continue sampling - still
raining

1630 In hotel - ready for
shipment packing

- RP-MW-02 time 1520

RP-MW-05 Duplicate of -02

Late note 1520 500 TW-05

KTD

5 Red Panther Clarksdale MS 10/9/07

Job ID: TOD-65-003-0004

Partly cloudy High 90 Low 70

USIS photographs & GPS 10/9/07 locations
photo #1 TW-08: N 34° 11' 10.5"
W 090° 33' 43.4"

0825 Set up on TW-09 hand
auger to 5' driller pushed
to 60' no water. Spoke with
Klyson will move to proposed
TW-01 to try again.

Photo #4 ^{proposed} TW-09: N 34° 11' 13.2"
W 090° 32' 40.5"

~~Set 1100~~ set up on TW-07
hand auger to 5' driller pushed
to 40'.

1215 DRG-site for lunch

1300 Begin pushing to 45'

1410 pushed to 60' no water

Drillers began rods

Photo #6 Deacon Park

Location Red Panther Date 10/9/07
 Project / Client TNA-05-003-0004

1450 Set up on TW-07 hand
 Auger to 5' pushed to 60'
 no water.
 1830 feet rods in ground
 to see if there is water in
 the mesquite
 Photo #7 TW-07 N 34° 11' 14.2"
 W 090° 33' 43.0"

RJ

Location Red Panther Date 10/10/07
 Project / Client TNA-05-003-0004

0820 Driller set 45' well @
 TW-07
 0900 setup on TW-03 hand auger
 to 5' install well @ 45'

1000 Remob to TW-09 to install
 35' well.

1040 Initial DTW TW-09 20.55
 1059 - Entries begun by Adam
 Davis. Set up for development
 of RP-TW-03. Initial depth
 to water - 20.00' BGS. Total
 depth - 45.00' BGS.
 1100 - Start Development.
 1104 - 1st water pulled from
 well (RP-TW-03).
 1106 - 550 mL of water pulled
 from well = 0.132 gals in 2 mins.
 = 0.132 / 2 mins. = 0.066 gpm
 1109 - DTW = 24.90' BGS with
 ~ 0.54 gallons removed.
 1115 - Increase purge rate to max
 pump rate of approx 0.46 gpm.
 1118 - Next DTW @ 27.00' → 89

Red Panther 10/10/07

TNA 05-003-0004

1118 - Pump will not lift water from 27' BGS. Total Volume of 0.17 gallons removed.

Stopped Pump; allow water to recharge in well prior to purge for sampling.

1136 - DTW = 22.00' BLS.

1137 - Start Purge RP-TW-03

Initial DTW: 20.00'

Total DTW: 45.00'

Length WC = 25.00'

1 Well Volume = 1.04 gals

3 Well Volumes = 3.12 gals

Initial Turbidity: >1000 NTU.

TIME	VOL	TEMP	COND	DO	pH	ORP	TURB
GAL	°C	ms/cm	mg/L	SU	MV	NTU	

1140 0.3 32.34 1.806 0.75 6.83 -156 >1000

1144 0.5 32.29 1.794 0.69 6.74 -153 >1000

1147 0.7 32.07 1.783 0.60 6.69 -150 >1000

1151 0.9 32.00 1.770 0.62 6.73 -152 >1000

1155 1.1 31.93 1.777 0.50 6.75 -151 >1000

1159 1.3 31.92 1.775 0.47 6.75 -155 >1000

PURGE RATE - 0.05 GPM OOR out of range

Red Panther

10/10/07

TNA 05-003-0007

RP-TW-03 PURGE (CONT.)

TIME	VOL	TEMP	COND	DO	pH	ORP	TURB
(DTW)	°C	ms/cm	mg/L	SU	MV	NTU	
1118 2.7 (26.70)	31.85	1.746	0.30	6.80	165.1	553	
1220	INCREASE RATE TO 0.06 GPM						
1228 2.8 (26.75)	29.64	0.820	0.90	6.85	-147	900	
1232 3.04 (26.79)	30.46	1.76	0.82	6.79	-147	600	
1240 3.52 (26.83)	29.12	1.75	0.73	6.76	-153	620	

*1240 - STOP PURGE @ 3.52 Gals

& COLLECT SAMPLES - RP-TW-03

2 FOR VOLATILES (30 - 40 ml vials)

2 FOR METALS / PEST / BNA (6 - 2 L Amber)

2 FOR NITRATES (1 - 1 L poly HDPE)

2 FOR POLY (1 - 1 L poly HDPE)

Pre-stopped sampling at 1330; samples collected were (2) 1L amber glass (pest.), (4) 1L poly (metals), (3) 40ml VOAs.

1402 - Start development of RP-TW

04 - Pump rate of 0.1 GPM.

Initial Turbidity = >1000 NTU.

10/10/07

Location Red Panther Date 10/10/07
 Project / Client TNA 05-003-0004

1413 - RP-TW-04 Development (Cont.)

Pump clogged w/ sediment with
 tubing @ 30' BGS.

1415 - Clean pump & restart
 development.

1418 - Pump clogs again.

1430 - Clean ~~out~~ ^{replace} tubing ~~trapped~~
 and start development again.

Depth to water 16.5' BGS.

Pump rate 0.1 GPM.

Turbidity = >1000.

Later Note KSP

1045 Set up on TW-04 hand auger to
 5' Set well @ 35'

1300 set up on TW-02 hand auger to 5'
 Set well @ 35'

Photo #12 Building with TNA
 Photo #13 55 gallon buckets of Tur

Location Red Panther Date 10/10/07
 Project / Client TNA 05-003-0004

* 1500 - collect trip blank RP-TB-03

1505 - began purge of TW-04

total depth of well 35.00 feet

initial depth to water was 16.31 feet

length of water column was 18.69 ft

well volume is 0.74 gallons, total purge

volume is 2.12 gallons

Initial turbidity >1000 NTU

time	vol	temp	cond	do	pH	orp	turb
HH:MM	gals	°C	$\frac{mS}{cm}$	mg/L	su	mv	NTU

1505	0.5	22.05	0.628	0.55	6.87	-211.0	>1000
------	-----	-------	-------	------	------	--------	-------

1515	1.0	21.78	0.596	0.17	6.79	-200.1	>1000
------	-----	-------	-------	------	------	--------	-------

1520	1.5	21.67	0.594	0.08	6.81	-199	>1000
------	-----	-------	-------	------	------	------	-------

1525	2.0	21.76	0.583	0.06	6.81	-199.3	>1000
------	-----	-------	-------	------	------	--------	-------

1530	2.5	21.72	0.575	0.05	6.82	-198.0	>1000
------	-----	-------	-------	------	------	--------	-------

1531 - stopped purge

* 1532 began sampling of RP-TW-04

Samples collected for full suite

(3 - 40 mL vials, 6 - 1 L Ambers.

Pest/PCBs/BNA/Semis, 1 - L Poly

metals, 1 - L Poly Cyanide.

1630 - complete sample collection @

RP-TW-04. Transfer purge water to

drums on site near decon pad.

JC
 10/10/07

Location: Red Panther Date: 10/10/07
 Project/Chart: TNA-05-003-0004

- 1040 - K. Patten & M. Thompson depart site for FedEx w/ 10/9/07 samples 3 Coolers (CLP) & 1 cooler (SL).
 1045 - Spoke w/ Richard Antici (Lyon Municipal Wells contact) & arranged to sample Lyon well on 10/11/07. Contact # for Antici is 662-645-0646.
 1050 - Called in sample bins to A. Warrington.
 1700 - Lock site & depart to hotel to prep 10/10/07 samples for shipment to lab.
 1715 - Re ice all samples from 10/10/07.

 10/10/07

Location: Red Panther Date: 10/11/07
 Project/Chart: TNA-05-003-0004

WEATHER: CLEAR 60°F; 5-10 NW WIND

- 1030 - Meet Rusty w/ Clarkdale Public Utilities at Clarkdale Well #17. Our designation is RP-MW-03. Well located on NE side of Clarkdale near Air Tractor & Mill Creek approx. 1.3 miles NNE of Red Panther site. GPS: 34.20912°N, 90.54951°W.
 1040 - Collect photographs of well location & sample location.
 1050 - Collect samples from spigot at wellhead upstream of chlorination. Samples collected for methods: 508 (2), 524.2 (3), 200.8 (1), 5081A-5082 (2), 335.4 (1), 515.1 (2), 525.2 (2), 504.1 (3). Take photographs of sample collection & train off pump.
 1100 - Place samples on ice in cooler, lock gate, & depart site.



Location Red Panther Date 10/11/07

Project / Client TNA-05-003-0004

- 1300 - Meet w/ Richard Antici (owner of Lyon Well operators) @ Lyon Municipal Well located off Hwy 61, NE of Clarksdale, just NW of intersection of Hwy 6 & Hwy 61.
 GPS location = $34.21576^{\circ}N$, $90.59241^{\circ}W$.
- 1310 - photograph site.
- 1315 - Collect samples from well near pump @ spigot before chlorination.
- 1320 - photograph sample location, water tower & site entrance.
- 1350 - Complete sample collection -
 - Depart site. R. Antici locks gate & turns off pump.
 - Samples collected designated as RP-MW-01. 16 bottles for analysis (same as RP-MW-03).


 10/11/07

Location Red Panther Date

Project / Client TNA-05-003-0004

- 1400 - Collect Trip Blank (RP-TB-04)
 3-40 ml vials.
- 1500 - PACK COOLERS FOR OFFSITE
 WHEELS TO STL COC SN 73779
 FED EX TRACK # 8630 3433 7993-

Location Clarksdale, MS Date 06/29/10

Project / Client Red Panther

Sampling event

Project note: START will collect a 9-point composite sample from a 25' x 25' grid as shown below.



Soil collected from top 3" of soil. All samples will be collected in accordance with the SESD FBSQ and the OTIE SAP/QAPP dated 6/25/10. START will collect GPS info from center point of each grid and will measure the furthest distance from aliquot to structure. Sampling tools will consist of only clean stainless steel bowls + spoons. No decon in field - All done prior to arrival. Rinse samples will be collected from representative

~~START~~
06/29/10

clean bowls + spoons.

~~START~~
06/29/10

Location Clarksdale, MS

Date 6/29/10

Project / Client Red Panther

Address

Date 06/29/10

Phone / Email

06/29/10

Location Clarksdale, MS Date 06/29/10

Project / Client Red Panther

Date 06/29/10

06/29/10

Location Clarksdale, MS

Date 06/29/10

Project / Client Red Panther

Date 06/29/10

10/29/10

Location: Clarksdale, MS

Date: 06/29/10

Project: Client: Red Panther

RP-CS-16 (ROW)

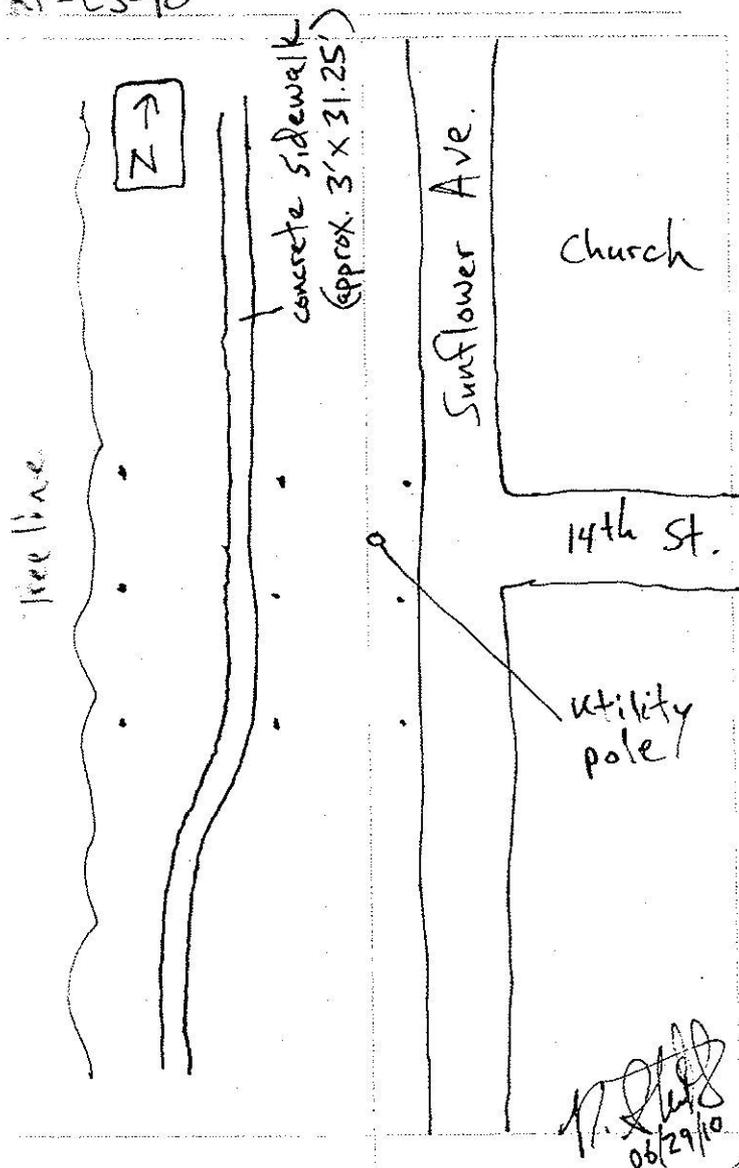
0955 START arrived at location and layed out grid. Grid is 20' x 31.25' due to space constraints in right of way.

1005 START Stacey D collected comp. sample RP-CS-16. Soil is brown silty loam. Concrete sidewalk runs through the grid. No structure to measure distance. Center point Lat = 34.18909° N
Lon = 90.56834° W
Photos: 103-1925 + 1926
Sketch on page 25.

[Signature]
06/29/10

Date: 06/29/10

Project: Client: RP-CS-16



Location Clarksdale, MSDate 06/29/10Project / Client Red PantherRP-CS-28 (ROW)

1029 START arrived at location +
 laid out grid. RS

1040 START Stacey D collecting
 comp. sample RP-CS-28.
 Soil is a brown silty loam.
 No structure to measure from.
 Sketch on page 27.

R. J. Smith
 06/29/10

Date 06/29/10 27

Project / Client

RP-CS-28

Tree line

29

15th St.

Sunflower Ave.

- Grid is 20' x 31.25'
- Lat = 34.18823° N
- Lon = 90.56810° W
- Photos: 103-1928
- Sidewalk is not
in grid.

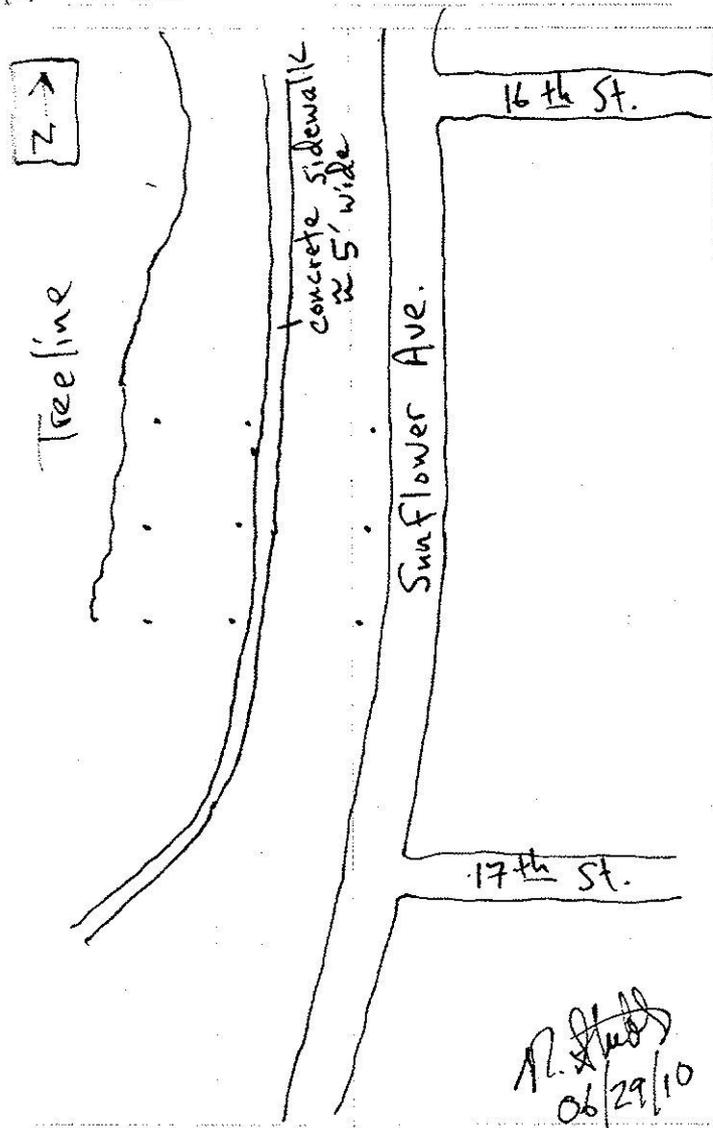
R. J. Smith
 06/29/10

Location Clarksdale, MS Date 06/29/10

Project/Client Red Pather
RP-CS-36 (ROW)

- 1055 START arrived at location and set up grid in right of way along Sunflower Ave.
- Grid is 25' x 25' ~~~~~ RS
 - Lat = 34.18736° N ~~~~~ RS
 - Lon = 90.56833° W ~~~~~ RS
 - Photo: 103-1929 ~~~~~ RS
- 1105 START Stacey D collected comp. sample RP-CS-36.
Soil is a brown silty loam.
Sketch on page 28. ~~~~~ RS
Sidewalk is in grid. ~~~~~ RS

~~06/29/10~~
~~Stacey D~~

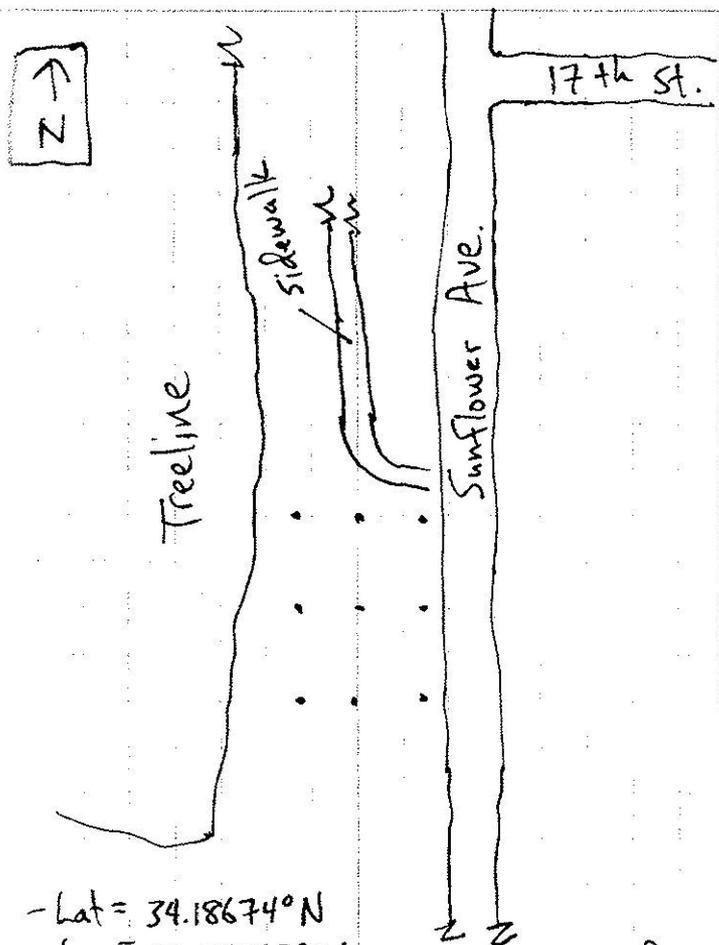
Project/Client
RP-CS-36

~~Stacey D~~
06/29/10

Location Clarksdale, MS Date 06/29/10Project / Client Red Panther
RP-CS-46 (ROW)

- 1115 START arrived at location and set up 25'x25' grid.
- 1126 START Stacey D. collected comp. sample RP-CS-46. Soil is brown silty loam. ~ NS
- Sketch on page 31. ~ NS
- No structure to measure from being location was in right of way. ~ NS
- Sidewalk is not in the grid. ~ NS

N. Stacey
06/29/10

Location _____ Date 06/29/10Project / Client RP-CS-46

- Lat = 34.18674° N
 - Lon = 90.56862° W
 - Photo = 103-1930

N. Stacey
06/29/10

Location: Clarksdale, MS Date: 06/29/10

Project / Client: Red Pather

Date: 06/29/10

34

Location Clarksdale, MS

Date 06/29/10

Species/Class Rod Panther

Date 06/29/10

35

36

Location Clarksdale, MS Date 06/29/10

Project / Client Red Panther

37

Date 06/29/10

Project / Client

Location Clarksdale, MSDate 06/29/10Patient / Client Red Panther

Author _____

Date 06/29/10

Patient / Client _____

40

Location Clarksdale, MS
Red Panther

Date 06/29/10

Date 06/29/10

41

Location Clarksdale, MS Date 06/29/10
Project / Client Red Panther

Location _____ Date 06/29/10
Project / Client _____

Location Clarksdale, MS
Species Red Panther

Date 06/29/10

Location

Date 06/29/10

Location Clarksdale, MS Date 06/29/10
 Project / Client Red Panther
RP-CS-08

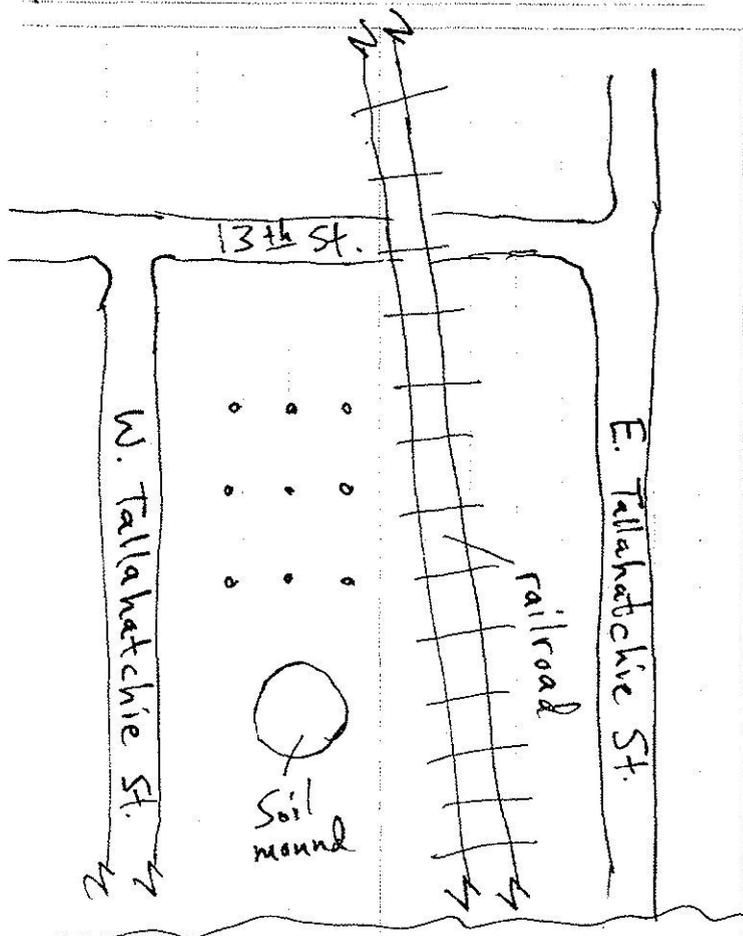
1636 START arrived at location
 and set up a 25'x25'
 grid. This is near railroad.

1645 START Stacey D. collected
 comp. sample RP-CS-08
 - Lat = 34.18988°N ~~~~~ RS
 - Lon = 90.56477°W ~~~~~ RS
 - Soil is brown SRS dark brown
 silty loam mixed with gravel.

~~RP-CS-08~~
 8/29/10

06/29/10 47

RP-CS-08



- Lat = 34.18988°N ~~~~~ RS
 - Lon = 90.56477°W ~~~~~ RS
 - Photo: 103-1949 ~~~~~ RS

~~RP-CS-08~~

Location Clarksdale, MS Date 06/29/16Project Client Red Panther

RP-CS-20 + dup 79

1654 START arrived at location
and set up 25'x25' grid.
Adjusted it east to avoid
a concrete slab. RS

1700 START Stacey D. collected
comp sample RP-CS-20.

1705 Collected dup RP-CS-79.
Soil is brown silty loam w/ gravel.

- Lat = 34.18894°N RS

- Lon = 90.56429°W RS

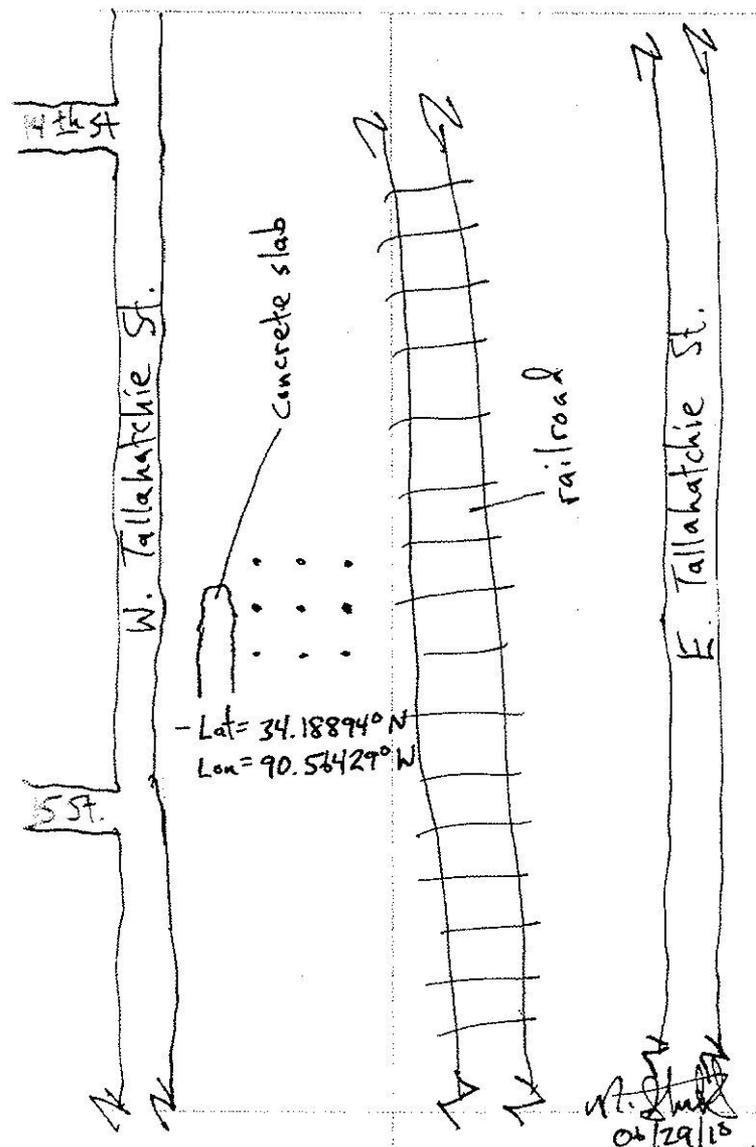
- Photo: 103-1950 RS

M. J. Smith
06/29/16

Date 06/29/16

Project Client

RP-CS-20 + dup 79



Location Clarkdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-54

0800 - START arrived at location
 and set-up 25' x 25' grid.

0815 - START collects sample.

RP-CS-54 (START N. Ferris collected sample)

Soil is brown silty loam

Photo # 103-1952, 53, and 54

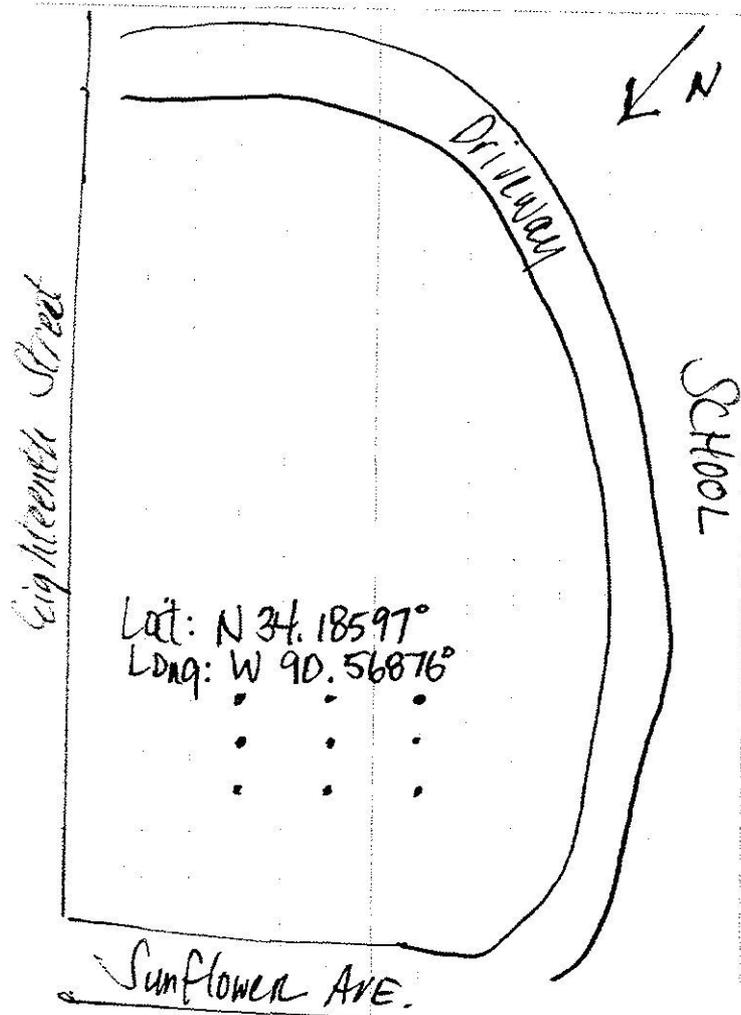
Lat: N 34.18597°

Long: W 90.56876°

Distance from furthest aliquot
 to school = 114 feet.

30-JUN-10

Location Clarkdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-54



Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-56

0831- START arrived at location
 and set-up 25' x 25' grid.

Distance to furthest aliquot
 from school is 188 feet.

0845- START N. Berrios collected

Sample RP-CS-56

Soil is silty brown loam.

Photos # 103-1955 and 1956

30-TUN-10

[Signature]

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-56



OPEN FIELD



Lat = $34^{\circ} 11.145'$ N
 Long = $90^{\circ} 33.994'$ W

Center Street

188 ft Street

Location Clarkdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-66

0900 - STAET arrived at location
 and set-up 25' x 25' grid
 Distance from furthest aliquot
 to the school is 283 feet.

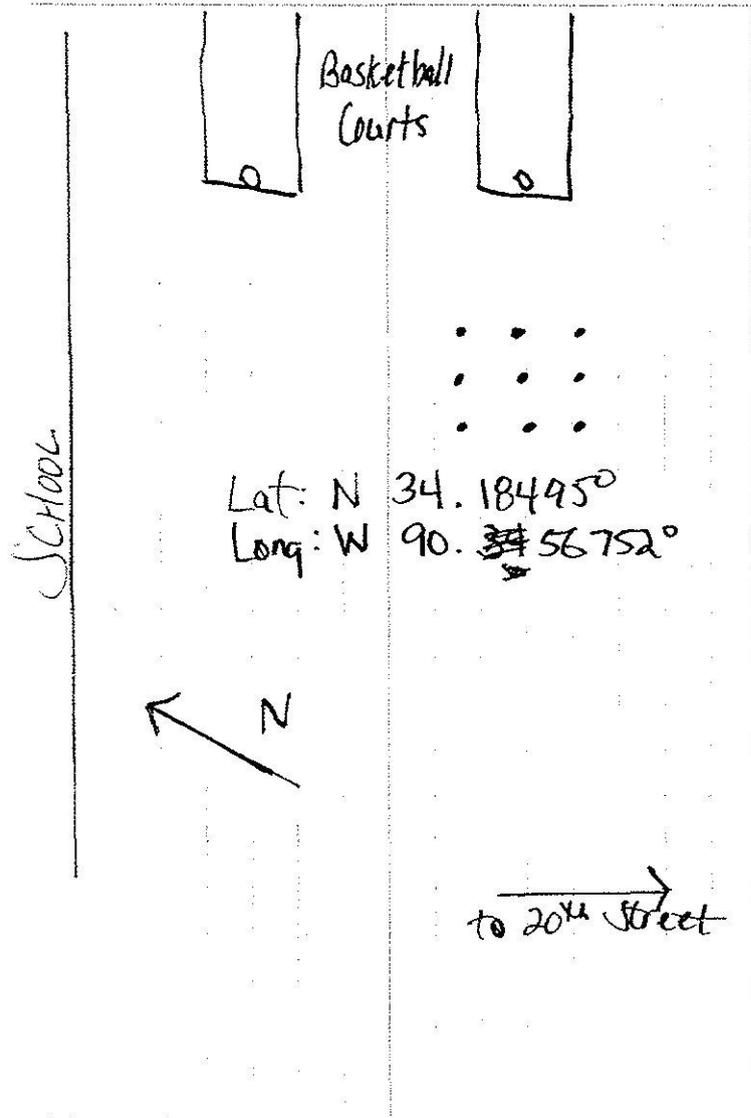
Soil is silty loam, brown.
 0910 - STAET N. Berrios collects sample
 RP-CS-66.

Photos # 103-1957 and 1958.

30-JUN-10

W. Berrios

Location Clarkdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-66



Location Clarksdale, MS
Red Vantage

Date 6/30/10

Location Clarksdale, MS
Red Vantage

Date 6/30/10

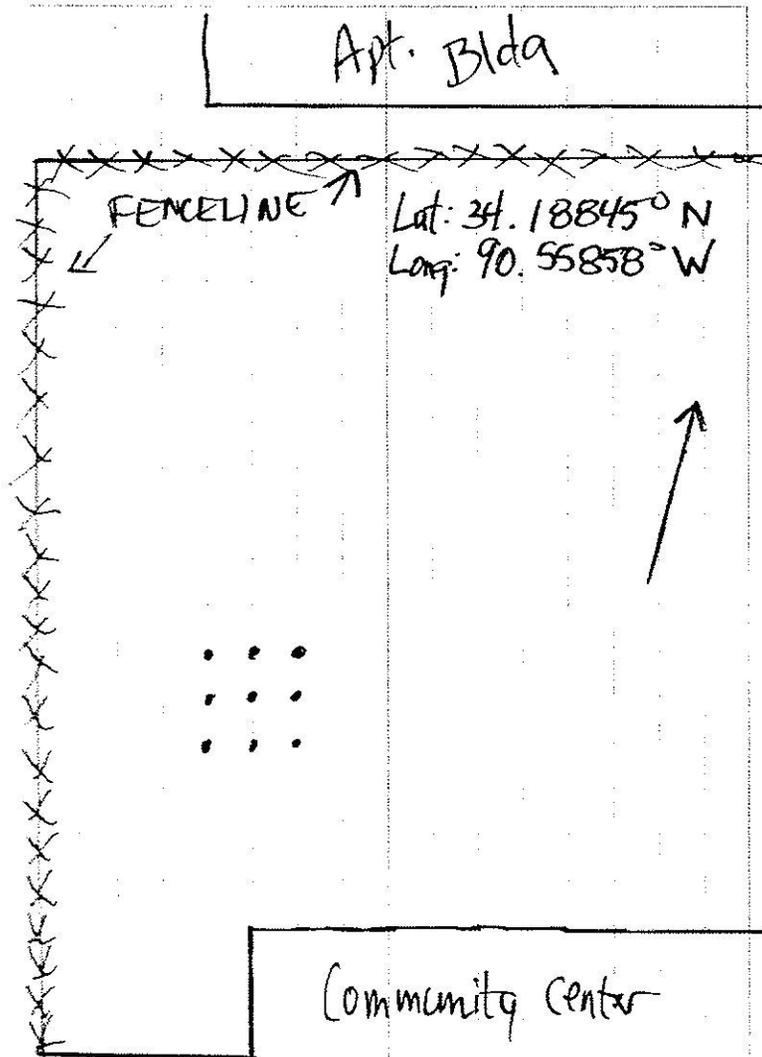
Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-34

1015 - Arrive at location. Set up
 25' x 25' sample grid. →
 Distance from furthest aliquot
 to community center - 50 ft.
 1030 - START N. Berrios collects
 sample - RP-CS-34 →
 Soil is a silty brown loam
 Photos # 103-1961 and 1962

90-TW-10

[Handwritten signature]

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-34



Location Clarksdale, MS Date 6/30/10
 Project Client Red Panther
 RP-CS-26

1100- Arrive @ location. Measure
 and lay-out 25' x 25' sample
 grid. Distance from furthest
 aliquot to building = 48 feet.

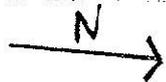
1115- START N. Berrios collects
 sample CS-26.

Soil is a silty brown loam
 Photos # 103-1963 and 1964

30-JUN-10

[Signature]

Location Clarksdale, MS Date 6/30/10
 Project Client Red Panther
 RP-CS-26



SIDEWALK

APT. BLDG

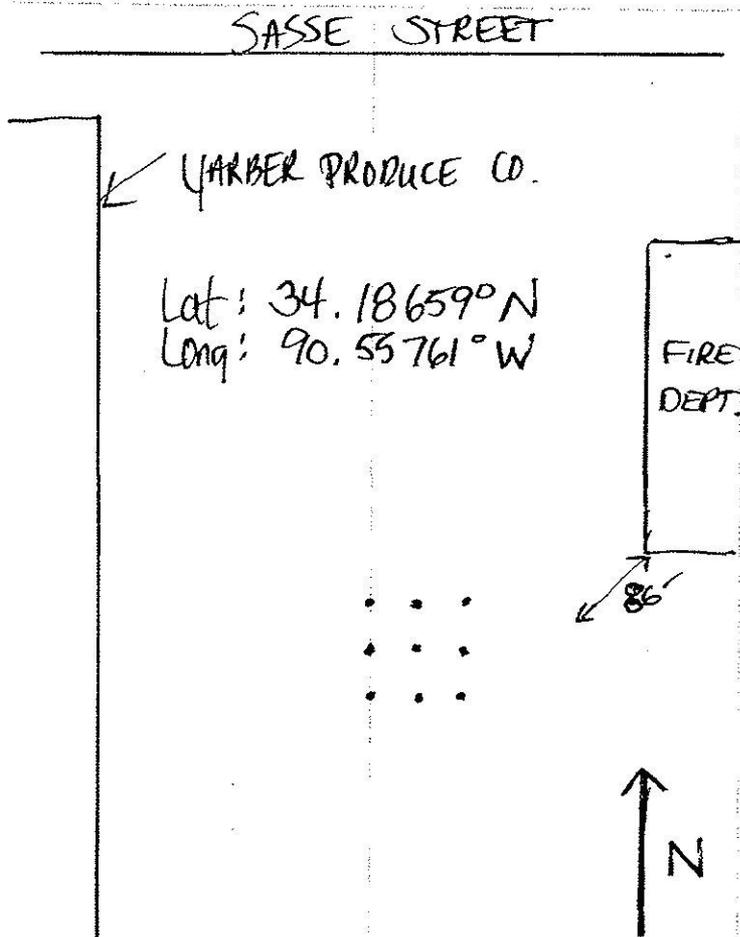
Location Clarksdale, MS Date 6/30/10
 Project - Client Red Panther
RP-CS-53

1315- Arrive at location and
 Setup 25' x 25' grid. Distance
 from building to furthest
 aliquot is equal to 86 feet
 1350- START N. Berrios collects
 Sample RP-CS-53. Soil is
 a silty brown loam.
 Photos # 103-1967 and 1968.

30 JUN-10

[Handwritten signature]

Location Clarksdale, MS Date 6/30/10
 Project - Client Red Panther
RP-CS-53



Location Clarksdale MS Date 6/30/10
 Project / Client Red Panther
RP-CS-64

1400 - Arrive at location and
 set-up 25' x 25' grid
 1415 - START N. Berrios collects
 sample RP-CS-64. Soil is a
 silty brown loam.
 Photos # 103-1969 and 1970.
 Lat: 34.18572° N
 Long: 90.55759° W

30-JUN-10

[Signature]

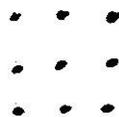
Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-64

YARDLY PRODUCE CO.



↑ = 300 feet
 to RP-CS-64

OPEN FIELD



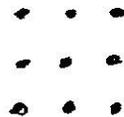
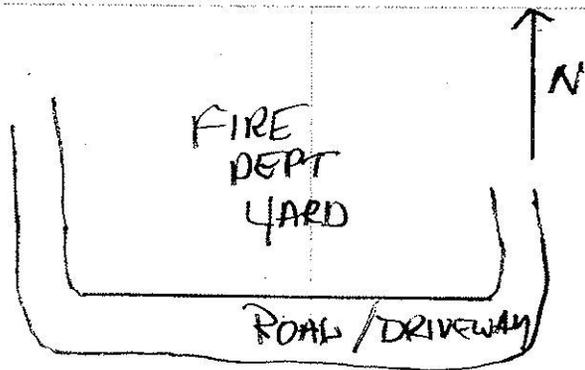
Lat: 34.18572° N
 Long: 90.55759° W

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-76

1430 - Arrive at location and
 set-up 25' x 25' grid. See
 Photos # 103-1971 and 1972.
 1435 - START N. Berrios collects
 sample RP-CS-76.
 Soil is a silty ~~brown~~ brown
 loam.

30-JUN-10

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
 RP-CS-76



Lat: 34.18522°
 Long: 90.55722°

70

Location

Clarksdale, MS

Date

6/30/10

Project / Client

Red Panther

Location

Clarksdale, MS

Date

6/30/10

Project / Client

Red Panther

71

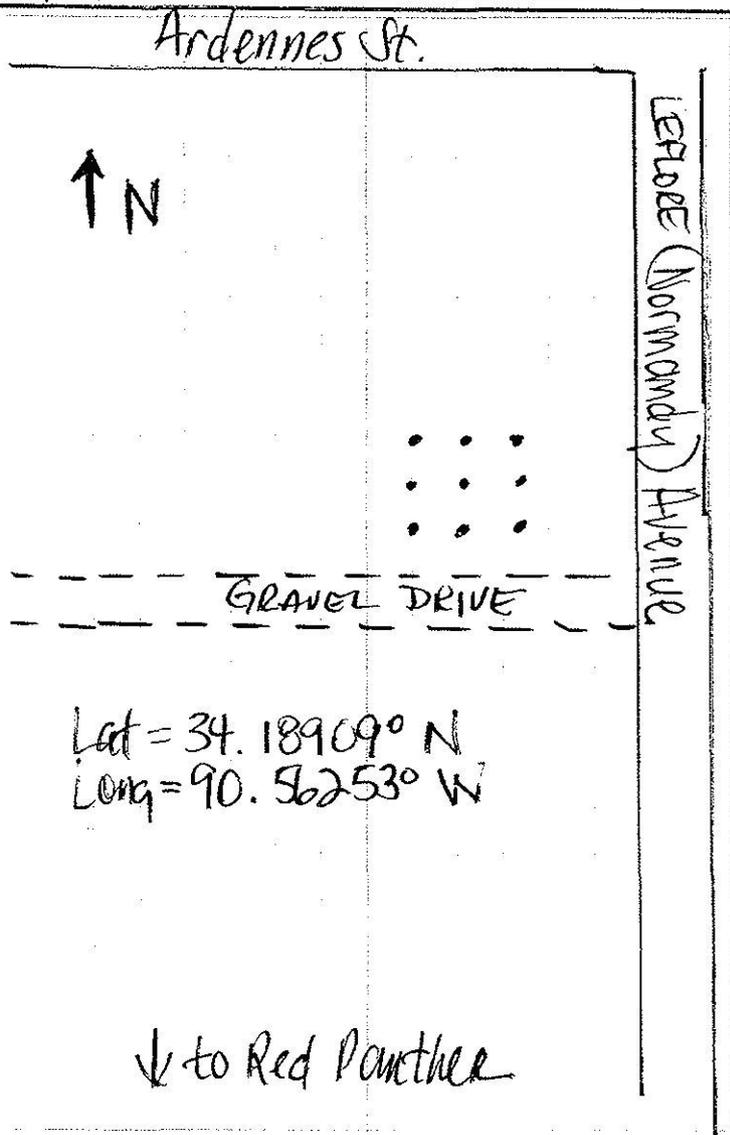
Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-22

1530- Arrive at location and
 Set-up 25' x 25' grid. See
 Photos # 103-1975 and 1976.
 1545- START N. Berrios collects
 sample RP-CS-22
 Soil is a silty brown loam.

30-JUN-10

[Signature]

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-22



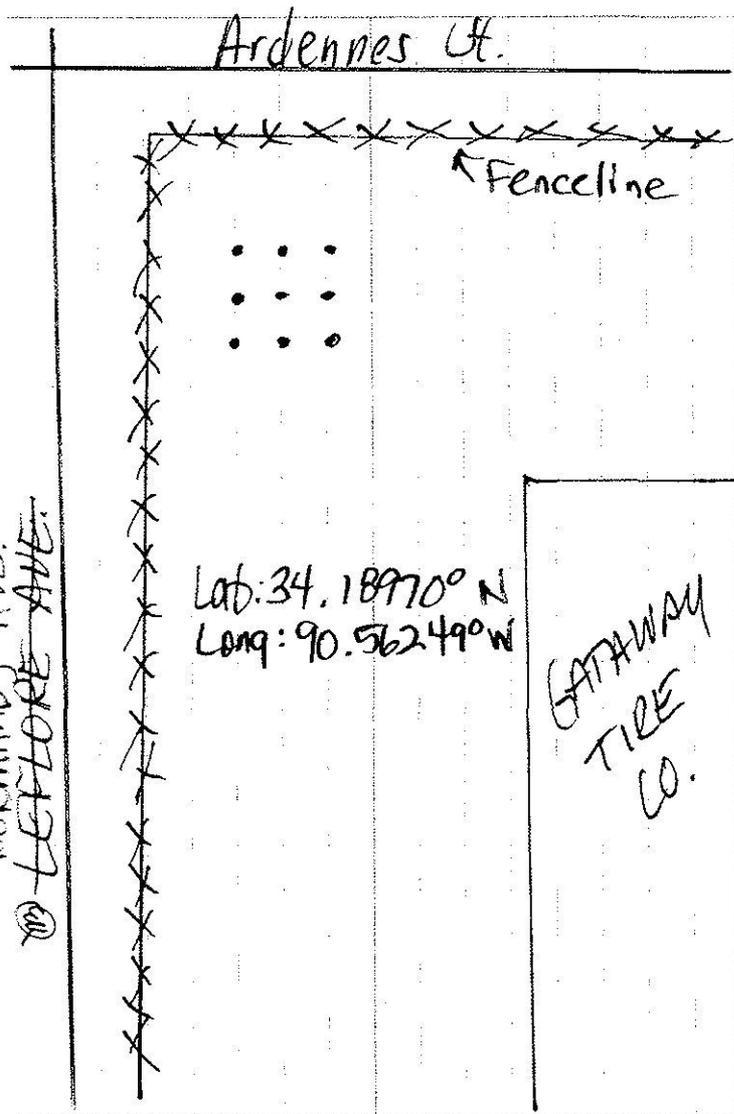
Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-10

1615 - Arrive at location and
 Set-up 25' x 25' sample grid.
 See Photos # 103-1977, 78, and 79
 Soil is a light brown sand.
 1630 - START N. Berrios collects
 Sample RP-CS-10.
 1635 - Collect Sample RP-CS-78
 (duplicate of RP-CS-10)
 Distance from structure to
 farthest aliquot is 103 ft.

30-JUN-10

[Signature]

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-10



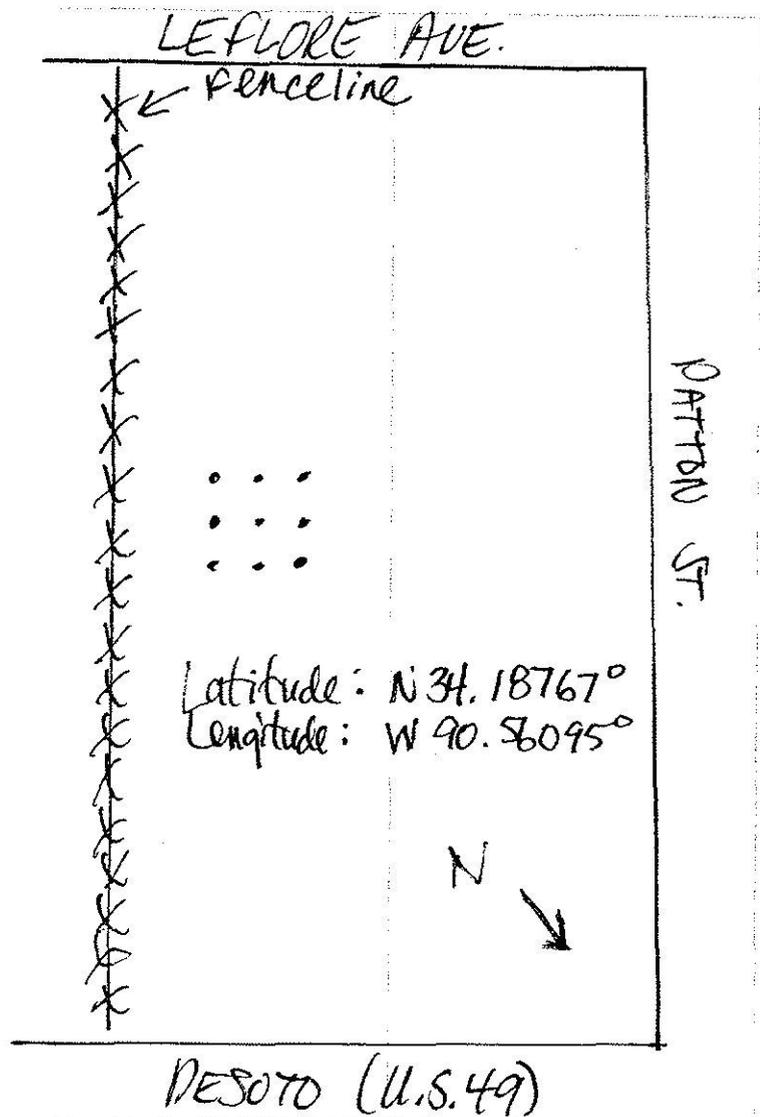
Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-42

1640 - Arrive @ location and set
 up 25' x 25' sample grid.
 See Photos #103-1980 and 1981
 1700 - START Bernios collects
 sample RP-CS-42.
 Soil is brown silty loam.

30 JUN 10

[Handwritten signature]

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-42



Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-24

1735 - Arrive @ location and
 set-up 25' x 25' sample grid.
 See photos # 103-1982 and 1983

1740 - START Benjos collects
 sample RP-CS-24.

Brown silty loam soil type
 Distance from building to
 furthest sample aliquot
 is 196 feet.

30-JUN-10

[Handwritten signature]

Location Clarksdale, MS Date 6/30/10
 Project / Client Red Panther
RP-CS-24

DESOTO (US 49)

← Billboard
 •••
 •••
 •••



EMPTY LOT
 w/ Industrial
 debris

Lat. = N 34.18896°
 Long. = W 90.56074°



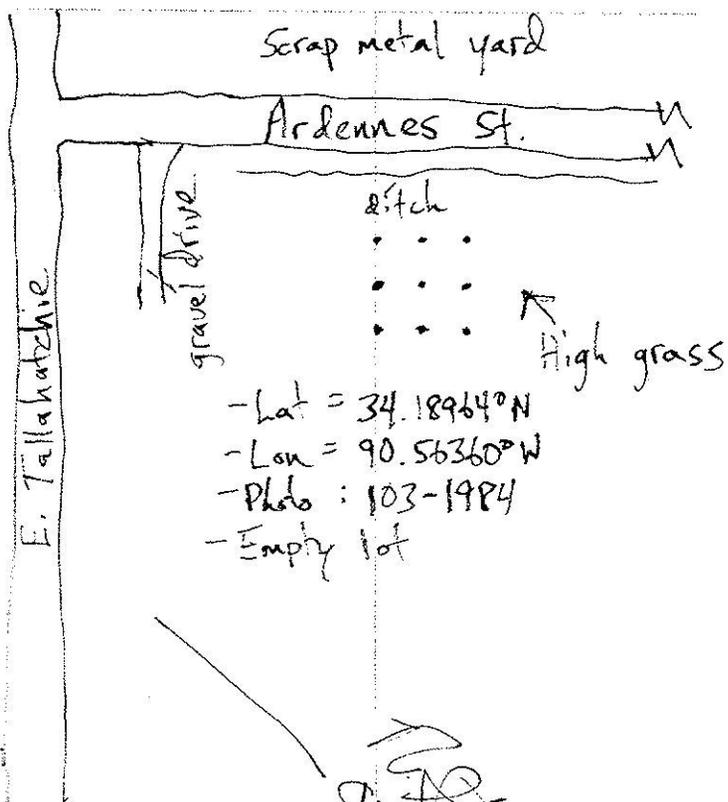
FENCE

Location Clarksdale, MS Date 07/01/10
 Project / Client Red Panther
RP-CS-09 (Empty lot)

- 0800 START arrived at location
 and set up 25' X 25' grid
- 0810 START Stacey D collected
 comp. sample RP-CS-09,
 Soil is brown silty loam.
 Sketch on page 81.

07/01/10
 Stacey D
 RP-CS-09

Location Clarksdale, MS Date 07/01/10
 Project / Client Red Panther
RP-CS-09



07/01/10
 Stacey D
 RP-CS-09

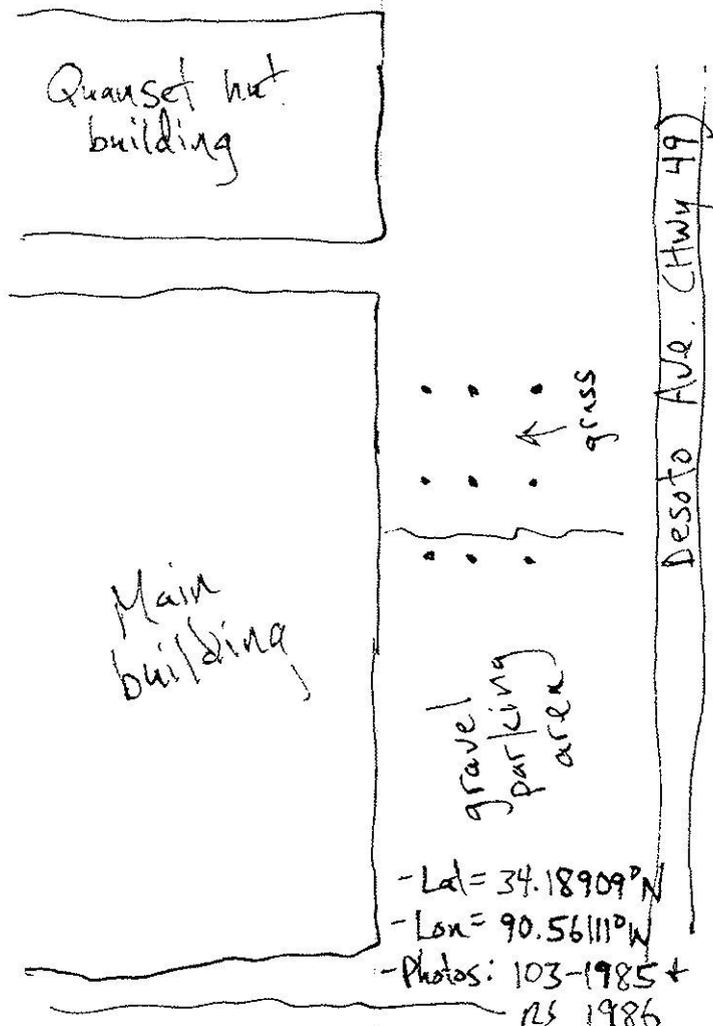
Location: Clarksdale, MS Date: 07/01/10
 Project / Client: Red Panther
 RP-CS-23 (Standard Industrial)

0820 START arrived at location and informed owner that we would be sampling soil on his property. Set up 25' x 25' grid between front of building and Desoto Ave. in grassy area adjacent to parking area. RS

0840 START Stacey D collected comp. sample RP-CS-23. Soil is brown silty loam mixed with gravel. Aliquot furthest from building is 30'. Grid was adjusted from the back of the building to the front due to hard compacted soil + gravel and lack of undisturbed soil. Sketch is on page 83.

N. Stacey D
 07/01/10

Location: Clarksdale, MS Date: 07/01/10
 Project / Client: Red Panther
 RP-CS-23



N. Stacey D 07/01/10

Location Clarksdale, MS

Date 07/01/10

Project / Client Red Panther

RP-CS-43

0854 START arrived at location
and set up 25' x 25' grid
in open grassy field on
empty lot.

0900 START Stacey D collected
comp. sample RP-CS-43.
No structure of property.
Soil is brown silty loam.
Sketch on page 85.

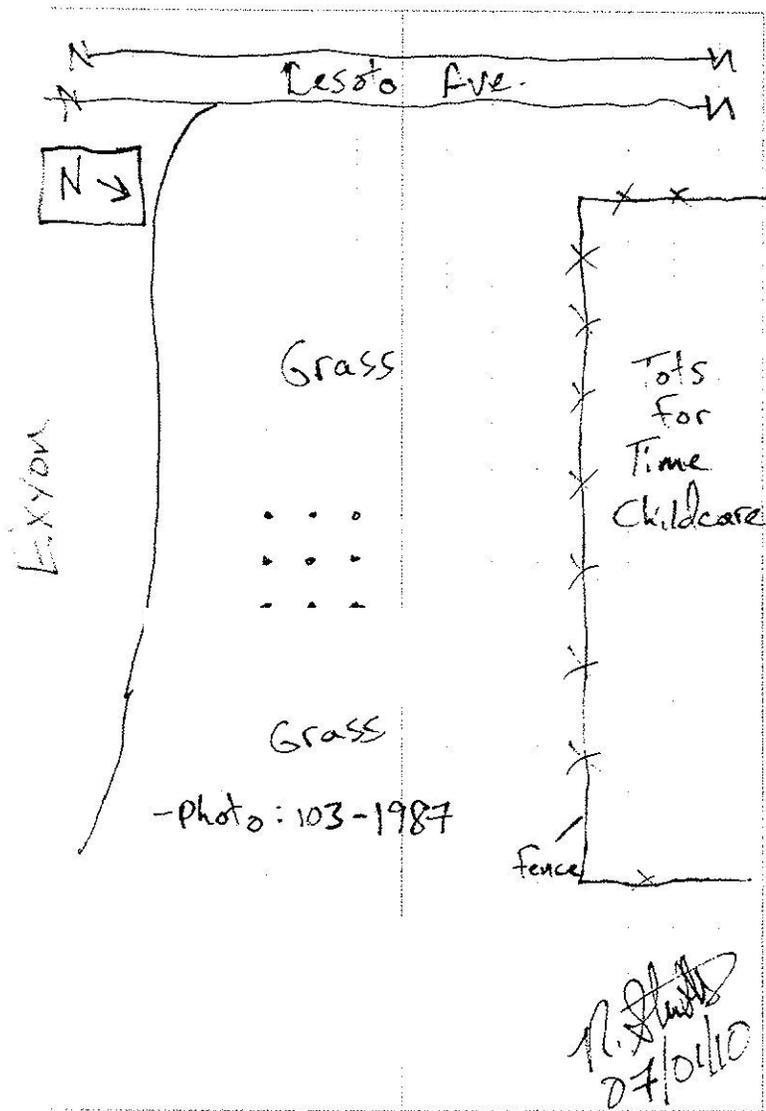
~~Stacey D~~
07/01/10

Location Clarksdale

Date 07/01/10 85

Project / Client Red Panther

RP-CS-43



Location: Clarksdale, MS

Date: 07/01/10

Project: Client: Red Panther

RP-CS-52 (Graeber Storage)

0912 START arrived at location and set up 25' x 25' grid in grassy area between storage unit buildings. No inhabitable structures on this property.

- Lat = $34.18667^{\circ}N$ - Lon = $90.55885^{\circ}W$

0920 START Stacey D collected comp. sample RP-CS-52. Soil is brown silty loam.

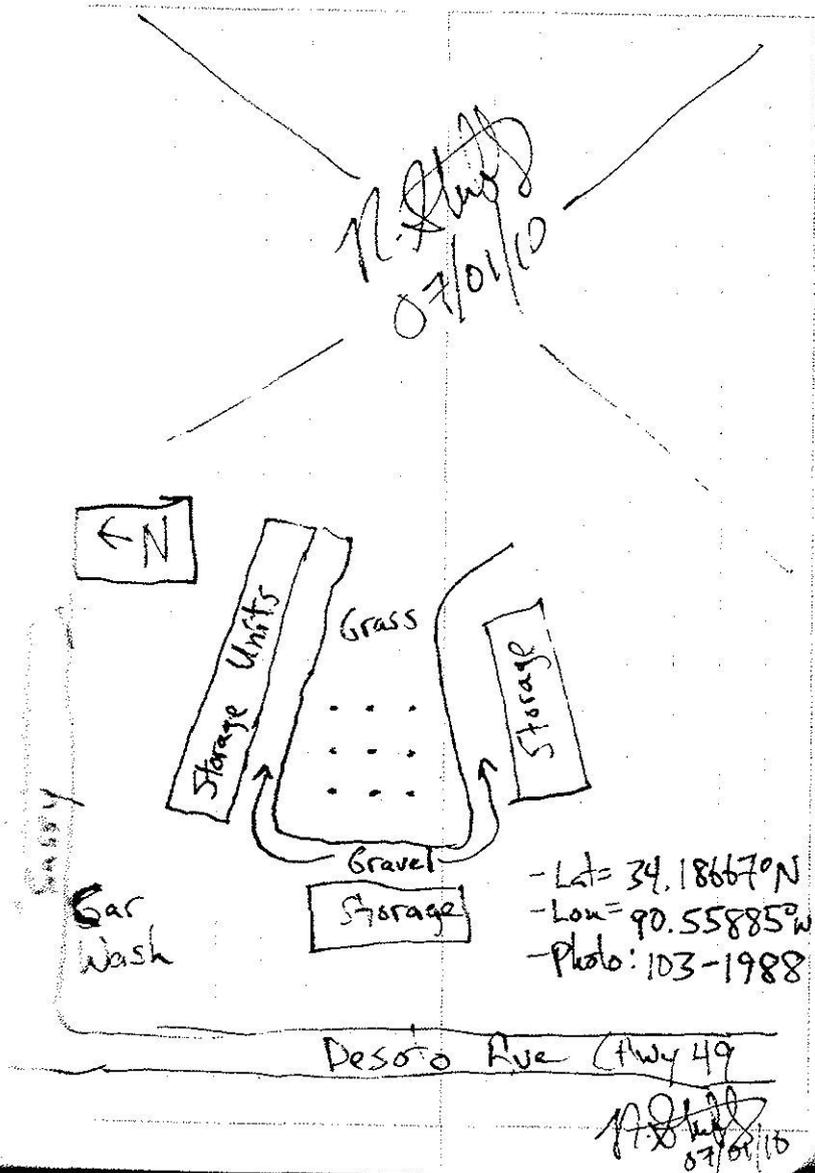
~~N. Stacey D~~
07/01/10

Location:

Date: 07/01/10 87

Project: Client:

RP-CS-52



Clarksdale, MS

07/01/10

Red Panther

RP-CS-62 (ROW)

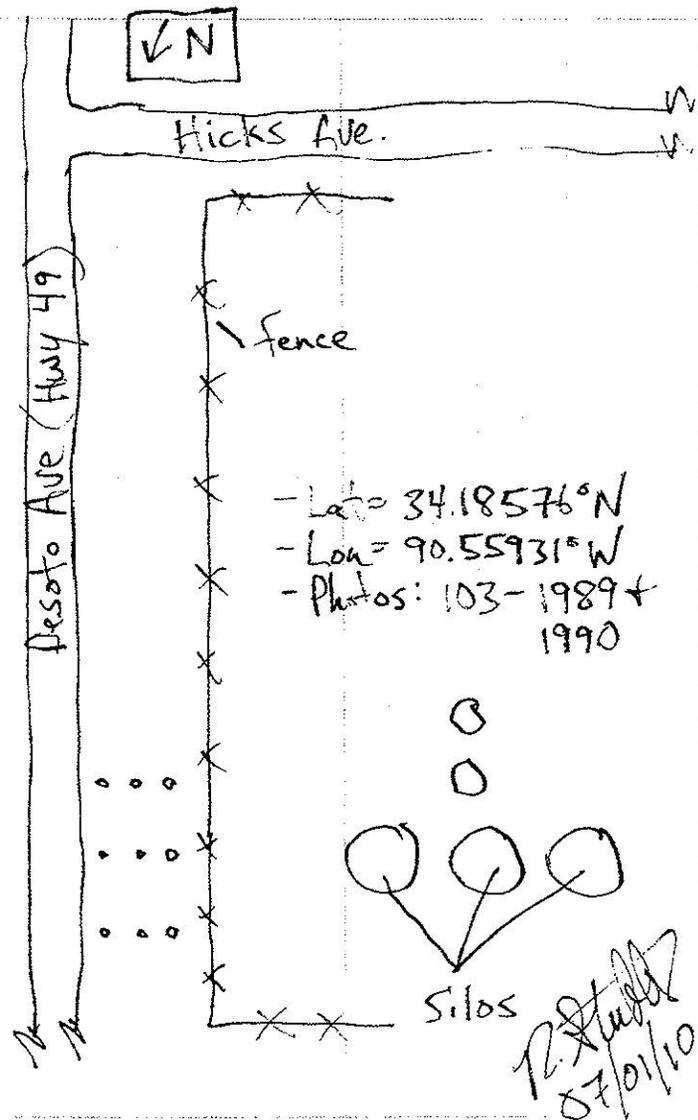
0939 START arrived at location and layed out a 20'x31.25' grid in the right of way on the west side of Desoto Avenue in front of large silos of the Scoular Company. No inhabitable structures.

0950 START Stacey D. collected comp. sample RP-CS-62. Soil is brown silty loam.

[Signature]
07/01/10

07/01/10

RP-CS-62



Location Clarksdale, MS Date 07/01/10Project / Client Red PantherRP-CS-74 (Jimmy Sanders Inc.)

1005 START arrived at location and set up 25' x 25' grid in grassy area in the fenced area on the north side of the building.

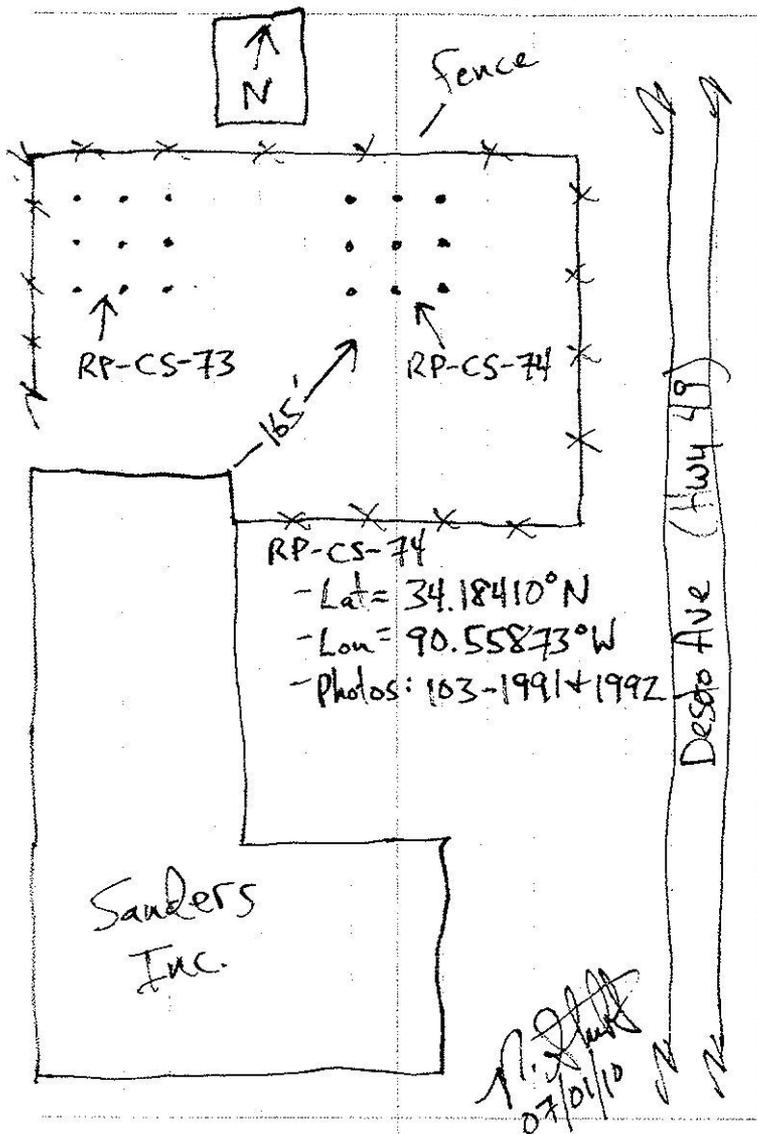
RS
 - Lat = 34.18410°N RS
 - Lon = 90.55873°W RS
 - Aliquot furthest from building is 165' RS

1015 START Stacey D. collected comp. sample RP-CS-74. Soil is brown silty loam. Sketch on page 91!

~~N. Sanders~~
 07/01/10

Date 07/01/10 91

Project / Client

RP-CS-74 + 73

Location Clarksdale, MS Date 07/01/10

Project / Client Red Panther

RP-CS-73 (Sanders Inc.)

1027 Arrived at location, same property as RP-CS-74, and set up 25'x25' grid. See sketch on page 91.

- Lat = 34.18389°N RS

- Lon = 90.55935°W RS

- Photo: 103-1993 RS

- Aliquot furthest from building is 182' RS

1035 START Stacey D. collected comp. sample RP-CS-73. Soil is brown silty loam.

~~N. Sanders~~
07/01/10

Location _____ Date _____

Project / Client _____

07/01/10

~~N. Sanders~~

Location: Clarksdale, MS
Project / Client: Red Panther
Date: 07/01/10

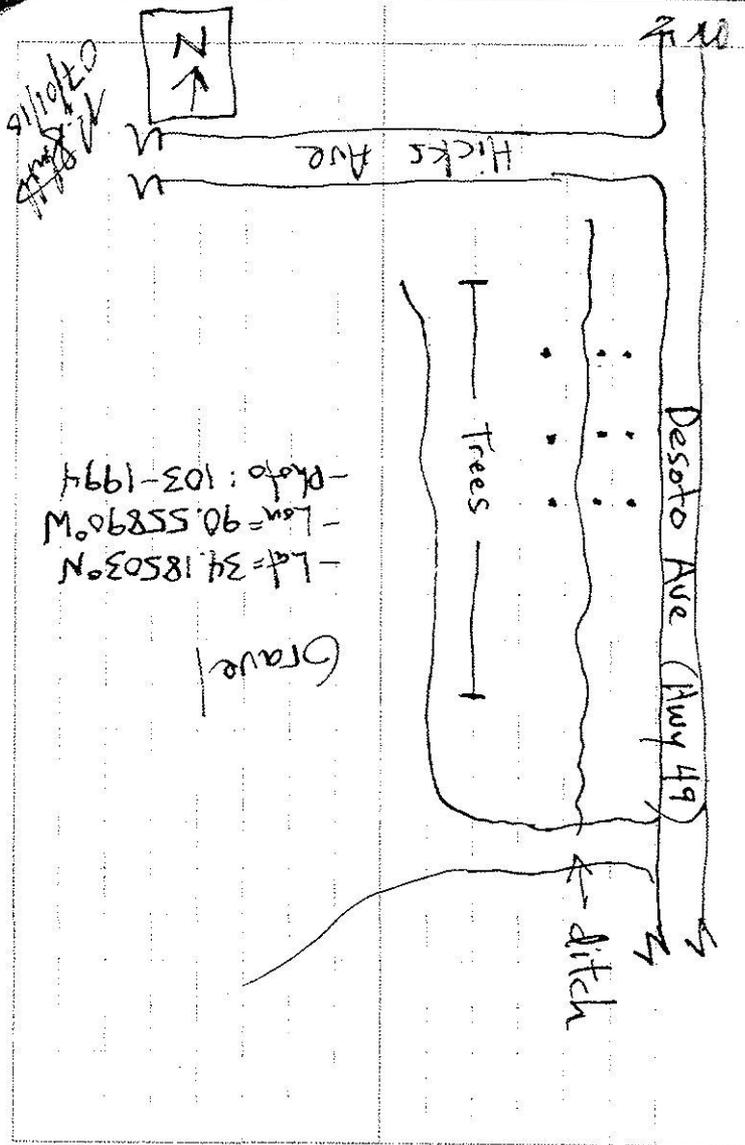
RP-CS-75 (Now at Desoto + Hicks)

1230 START arrived at location and set up 25' x 25' grid straddling a drainage ditch. No aliquot was collected in the ditch.
- Lat = 34.18503°N
- Lon = 90.55890°W
1235 START Station B collected comp sample RP-CS-75. This was also an MS/MSD. Sketch on page 95. Soil is brown silty loam.

07/01/10
M. J. [Signature]

Location: _____
Project / Client: _____
Date: 07/01/10

RP-CS-75



Location Clarksdale, MS Date 07/01/10

Project / Client Red Panther

RP-CS-70 + dup 84

1256 START at location and
set up 25' x 25' grid
in grass near bulk
diesel tank. ~~~~~ RS

- Lat = $34.18498^{\circ}N$ ~~~~~ RS

- Lon = $90.56356^{\circ}W$ ~~~~~ RS

- Photo: 103-1995 ~~~~~ RS

1305 START Stacey D. collected
comp. sample RP-CS-70. ~~~~~ RS

1310 START Stacey D. collected
dup RP-CS-84. ~~~~~ RS

Soil is brown silty loam. ~~~~~ RS

Sketch on page 97. ~~~~~ RS

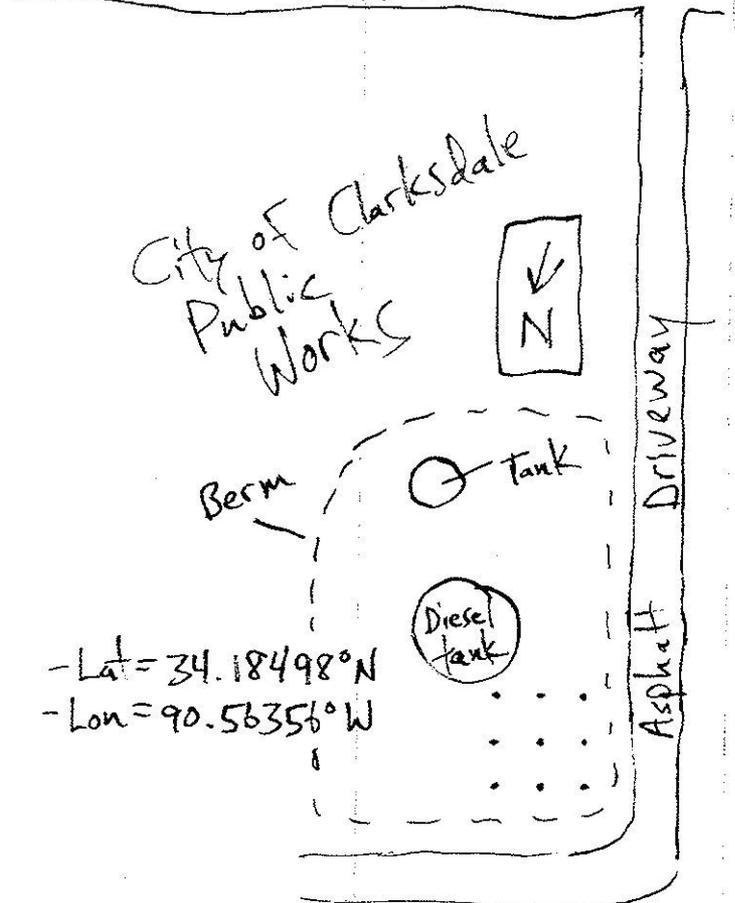
[Signature]
07/01/10

Location Clarksdale, MS Date 07/01/10

Project / Client Red Panther

RP-CS-70 + dup 84

Hicks Ave



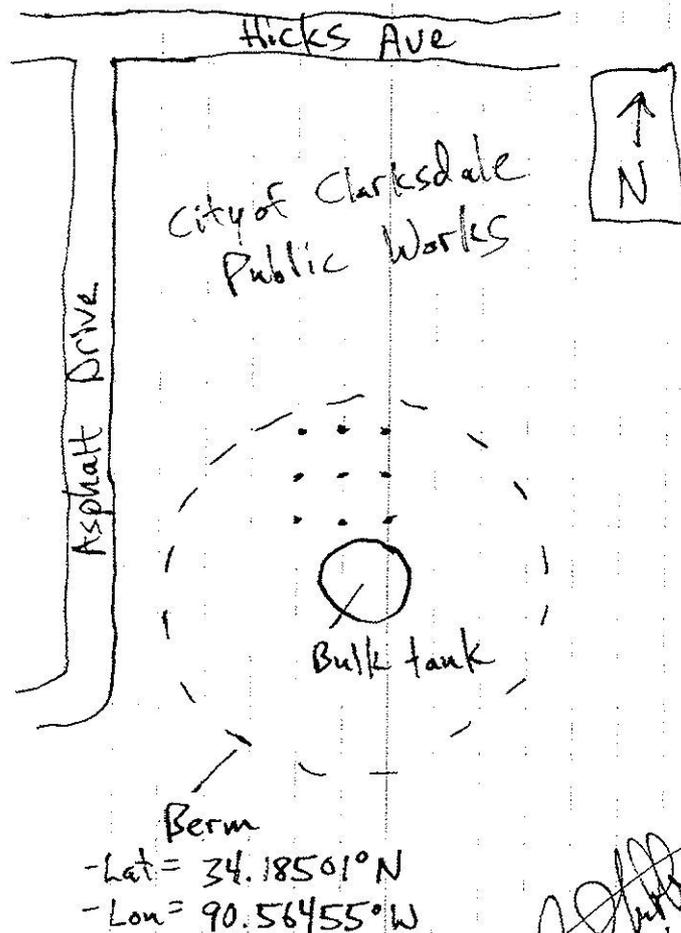
[Signature]
07/01/10

Location Clarksdale, MS Date 07/01/10Project / Client Red Panther
RP-CS-69 (Clarksdale Public Works)

1321 START at location and set up 25'x25' grid in grassy area south large bulk tank inside berm.
 - Lat = 34.18501°N RS
 - Lon = 90.56455°W RS
 - Photo: 103-1996 + 1997

1330 START Stacey D collected comp. sample RP-CS-69. Soil is brown silty loam. Sketch on page 99.

~~07/01/10~~
~~Stacey D~~

Date 07/01/10 99Project / Client
RP-CS-69

~~Stacey D~~
 07/01/10

Marietta, GA

07/06/10

Red Panther

* Latenote: For the sampling event conducted from 06/29/10 thru 07/01/10 refer to Book #1 for weather information and for start and stop times for daily activities.

07/08/10
J. J. [unclear]