

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
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**FINAL REPORT
REMOVAL ASSESSMENT
BLACK LEAF CHEMICAL SUPERFUND SITE
LOUISVILLE, KENTUCKY
SESD PROJECT ID: 12-0195**

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Title and Approval Sheet

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Black Leaf Chemical Superfund Site
Louisville, Kentucky

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1.0 INTRODUCTION

During the days of February 14 – 15, 2012, the Region 4, United States Environmental Protection Agency (EPA), Science and Ecosystem Support Division (SESD), Superfund and Air Section conducted a removal assessment soil sampling investigation at the Black Leaf Chemical Superfund Site in Louisville, Kentucky (see Figure 1, Site Location Map, Appendix A).

This investigation was conducted in accordance with the Quality Assurance Project Plan, “*Black Leaf Chemical Removal Assessment*” (1) to characterize surface soils in yards of residential properties adjoining the Black Leaf Chemical site. In addition, samples were also collected from on-site locations, including open-area soils and unknown material from within several on-site buildings.

The investigation was requested by Art Smith, On-Scene Coordinator, Region 4 EPA, Atlanta. This report:

- 1) Presents the results of soil sampling in the residential and on-site locations and compares them to the appropriate EPA Regional Screening Levels (RSLs) and Removal Action Levels (RALs)/Removal Management Levels (RMLs) and
- 2) Presents the analytical results for samples of unknown material collected from three locations within on-site structures.

2.0 EXECUTIVE SUMMARY

Surface soil samples were collected from residences at fifty-one locations in the vicinity of the Black Leaf Chemical Superfund Site. In addition, soil samples were collected from four on-site locations and waste samples were collected from three locations within two warehouse buildings. All samples were analyzed for arsenic and lead, as well as organochlorine pesticides and semi-volatile organic compounds. The results were compared to applicable EPA RSLs and RALs/RMLs. The following is a summary of pertinent results from this investigation.

Residential Soil

Arsenic was detected in every sample at concentrations exceeding it's residential RSL of 0.39 mg/kg, however, it was not detected in any sample at a concentration greater than the residential RAL/RML of 39 mg/kg. Lead was also detected in every sample and was reported at concentrations greater than the residential RSL of 400 mg/kg in samples from seven locations. Three areas, shown in Figure 4, were found to have lead present at concentrations exceeding the RSL of 400 mg/kg in one or more locations. Two of the areas are located on Wilson Avenue and the third is located at the west end of St. Louis Avenue.

Numerous organochlorine pesticides were detected in the residential soil samples. One or more compounds were found to be present in samples from eleven of the sampled properties

at concentrations exceeding their respective RSLs. These compounds include aldrin (one property), heptachlor epoxide (one property) and dieldrin (ten properties). The exceedances are shown in Figure 5. No pesticides were reported at concentrations greater than the residential RALs/RMLs.

Twenty-one semi-volatile organic compounds, mostly polynuclear aromatic hydrocarbons (PAHs) were detected in samples from all but one of the sampled properties. None of the fourteen non-carcinogenic PAHs were reported at concentrations exceeding either their respective residential RSLs or the residential RAL/RMLs. With the exception of one property, 1718 Wilson Avenue, there was at least one carcinogenic PAH (CPAH) present above an RSL in each of the residential soil samples collected for this investigation. Benzo(a)pyrene equivalents (BAPEs) were calculated for each sample to assess the toxicity of each sample with respect to benzo(a)pyrene. With the noted exception of 1718 Wilson Avenue, the residential BAPE RSL of 15 ug/kg was exceeded in all samples. Further, the BAPE RAL/RML was exceeded in samples from three of the properties, including 1714 St. Louis Avenue (front yard, 2,096.5 ug/kg), 1620 Wilson Avenue (backyard, 3,655.5 ug/kg, and it's split, 4,739.6 ug/kg) and 1732 Wilson Avenue (backyard, 3174.7 ug/kg)

On-Site Soil

Arsenic and lead were detected in all five on-site soil samples, collected at four different locations on site. All of the reported results were compared to industrial RSLs and RALs/RMLs. Arsenic was found to exceed it's RSL of 1.6 mg/kg at three of the four locations, ranging in concentration from 1.7 mg/kg, in sample BC03SF, to a high of 10 mg/kg, in sample BC02SF. Lead concentrations were all below the industrial RSL for lead of 800 mg/kg.

Although numerous pesticides were detected in the on-site soil samples, no pesticide was detected at a concentration in excess of any of the published RSLs.

Twenty-one semi-volatile organic compounds, primarily non-carcinogenic PAHs and CPAHs, were detected in the on-site soil samples. BAPEs were calculated for each sample and all calculated values for samples collected at stations BC01, BC02 and BC03 were found to be in excess of the industrial BAPE RSL of 210 ug/kg.

Waste

One sample of a coarse white granular material (BC05WA) and two floor sweepings samples (BC06WA and BC07WA) were collected from two adjacent warehouse structures near the center of the site. No semi-volatile organic compounds were detected in sample BC05WA, and only trace to low concentrations of metals (no arsenic and 1.6 mg/kg lead) and pesticides were detected. Sample BC06WA had the highest detected concentrations of metals and pesticides. Arsenic was found at a concentration of 10 mg/kg, in excess of the industrial RSL of

1.6 mg/kg. Lead was found at a concentration of 3,100 mg/kg, in excess of the industrial RAL/RML of 800 mg/kg.

With respect to organochlorine pesticides, BC06WA had the greatest number of compounds detected (six) and also was the sample with the highest reported concentrations of detected pesticide compounds. One pesticide, dieldrin, was detected at a concentration of 160 ug/kg, in excess of its RSL of 110 ug/kg. It was the only pesticide to exceed a RSL or RAL/RML. Ten semi-volatile organic compounds were detected in BC06WA and four of them, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene, were all present at concentrations exceeding their respective industrial RSLs.

Arsenic was the only metal exceeding an industrial RSL in BC07WA, where it was detected at a concentration of 46 mg/kg, exceeding its industrial RSL of 1.6 mg/kg. Organochlorine pesticides were detected in BC07WA, although fewer compounds were detected than compared to BC06WA and no compounds were present above industrial RSLs. Semi-volatile organic compound detections were similar to those reported for BC06WA, although more compounds were detected and were present at somewhat higher concentrations. Five compounds were present at concentrations greater than their respective industrial RSLs.

3.0 BACKGROUND

3.1 General

The site is located in northwestern Jefferson County at 1350 South 17th Street, Louisville, Kentucky, approximately 2.5 miles south of I-64 and 2.2 miles east of the Shawnee Expressway. The site is located on a portion of a 29-acre parcel of land currently owned by Louisville Industrial Park, LLC. Locally, the site can be accessed by vehicle from Dixie Highway or from 17th Street. GPS coordinates at the 17th Street entrance are Latitude 38.232967 degrees north and Longitude -85.782500 degrees west. (2)

The site is situated in an inner city area known as the Park Hill Neighborhood and is bordered by a residential area to the north, a large rail yard to the south and industrial/commercial areas to the east and west. (2)

3.2 Operational History

EPA first became aware of the site in 1981 upon receipt of a Notification of Hazardous Waste Site form, which indicated that Diamond Shamrock Corporation handled pesticides at the site from 1955-1970. A Preliminary Assessment was performed by the Kentucky Division of Waste Management in 1987, however, no samples were collected and no substantial information relating to the site's operations was included.

Information relating to the site history was presented in a Phase 1 Environmental Site Assessment completed by ATC Associates in 1999. According to that report, the chain-of-ownership for the portion of the property where the site is located is as follows:

| | |
|--------------|--|
| 1910-1928 | Tobacco Bi-Products (and Chemical) |
| 1928-1933 | Diamond Black Leaf |
| 1933-1959 | Diamond Alkali Corp. |
| 1959-1982 | Schenley Distillers/Louisville Cooperage |
| 1982-1987 | Lanham Lumber & Dry Kiln |
| 1987-1993 | Dunaway Lumber & Dry Kiln Company |
| 1993-2001 | Down River Forest Products |
| 2001-present | Louisville Industrial Park, LLC |

Sanborn Fire Insurance maps for the property indicated that Building 20, located within the portion of the property designated as the Black Leaf Chemical Site, was used for the manufacturing of insecticides. Diamond Black Leaf/Alkali manufactured pesticides, including DDT and benzene hexachloride at different plants across the United States. Diamond also manufactured and sold chlorinated products, cement-coke, chromium chemicals, electro-chemicals, plastics, silicate, detergent, calcium and soda products. It is possible that some of these materials were used, distributed or manufactured at the Black Leaf Chemical Site. (2)

4.0 METHODOLOGY

4.1 Sampling Methodology

4.1.1 Soil

Sixty-three (63) surface soil samples were collected from the back yards of fifty-one (51) residential properties and from the front yards at five of these locations. Composite samples, typically five (5) point composites, were collected from the back and selected front yards at each property. The total number of samples also includes six (6) field quality control samples, consisting of one co-located variability duplicate and one pan split sample collected by each of the three teams.

In addition to the residential soils, five soil samples, including four surface soil and one subsurface soil, were collected from four previously sampled locations on site where organochlorine pesticides had been detected at elevated levels.

All soil sampling was conducted in accordance with the Region 4, *Field Branches Quality System and Technical Procedures*, including SESDPROC-300-R2, Soil Sampling (3). At each of the residential properties, the center of the aliquot pattern was established near the center of the back yard. The remaining aliquots were located near the corners of the back yard,

along diagonals from the center point to each corner of the yard. The sample interval at each aliquot location was from 0” to approximately 4” below ground surface. Each aliquot was collected by hand with a stainless steel auger bucket and was placed into a glass pan. After all aliquots had been collected, the entire sample was homogenized with a stainless steel spoon using the quartering method and was transferred to two 8-ounce glass sample containers, one for metals and one for organochlorine pesticides

At each of the four on-site locations, grab samples were collected from 0” to approximately 12” below ground surface using a stainless steel hand auger. The material was placed in a glass pan and was homogenized using the quartering method. All on-site soil samples contained a significant amount of gravel, which was removed, to the extent possible, prior to containerization in two 8-ounce glass sample containers, one for metals and the other for organochlorine pesticides.

4.1.2 Waste

Three samples were collected for this investigation and were classified as waste samples, primarily to distinguish them from soil samples. One of these was a white, coarse crystalline substance and the other two were what appeared to be primarily dust or “dirt” comprised primarily, it appeared, of blown in or tracked in soil. At each location, a sufficient amount of each material was collected with a spoon and transferred to a glass pan. It was then homogenized with the stainless steel spoon using the quartering method and then transferred into two 8-ounce glass containers, one for metals and one for organochlorine pesticides.

4.2 Analytical Methodology

Metals analysis for all samples was conducted by the SESD laboratory in accordance with the Region 4 EPA Analytical Support Division’s *“Laboratory Operations and Quality Assurance Manual”*, July 2011 (4) using EPA Method 200.8. Soil samples for organochlorine pesticide analysis were analyzed by ALS Laboratory Group, Salt Lake City, Utah, in accordance with the most recent CLP Statement of Work for organic compound analysis (SOM01.2). The three samples characterized as waste were analyzed by Analytical Environmental Services, Atlanta, Georgia using EPA Method 8081A for the organochlorine pesticides and EPA Method 8270C for the semi-volatile organic compound analysis.

5.0 INVESTIGATION RESULTS

Sixty-eight soil samples, including sixty-three residential soil samples and five soil samples collected at four on-site locations, were collected for this investigation. Included in these totals are six field quality control samples. In addition, three samples of unknown material and floor debris were collected from two on-site buildings to characterize material found within these buildings. Although not technically waste samples, these were identified as waste samples primarily to distinguish them from soil samples.

Figure 2, Sample Location Map, Residential/Off-Site Soil Samples, shows the locations of all soil samples collected from yards at off-site residential locations. Figure 3, Sample Location Map, On-Site Locations, shows the locations of soil and waste samples collected from locations within the fenced site boundaries. Table 1 lists all samples and summarizes them with respect to the station ID, sample identification, geographic coordinates and corresponding street address, if applicable, for each sample. Tables 2 through 4 are the analytical data summary tables for lead and arsenic in residential soils. Table 5 is a summary of the arsenic and lead results for the on-site soil samples. Table 6 summarizes the metals results for the three waste samples. Tables 7 through 13 summarize the organochlorine pesticide analytical results for all residential soil samples. Table 14 summarizes the pesticide results for on-site soils, and Table 15 is the pesticide analytical data summary table for the waste samples collected from on-site warehouse structures. Table 16 summarizes the semi-volatile organic compound results for on-site soils, Tables 17 through 22 summarize the semi-volatile organic compound analytical results for all residential soil samples. Table 23 is the semi-volatile organic compound analytical data summary table for the on-site soil samples and Table 24 is the data summary for the waste samples collected from on-site warehouse structures. The complete data (Element reports and contract laboratory analytical report) are included in Appendix C to this report. Photocopies of the field logbooks for this investigation are included as Appendix D for reference.

The analytical results for this investigation are discussed below, with separate discussions for the residential soils, the on-site soil and waste samples and the field quality control/quality assurance samples. Results are compared to EPA Regional Screening Levels (RSLs) and EPA Removal Action Levels/Removal Management Levels (RAL/RMLs). This comparison is presented in the data summary tables as well as discussed in the following sections, where warranted.

5.1 Residential Soils

5.1.1 Metals (Lead and Arsenic)

Both lead and arsenic were detected in all soil samples collected for this investigation. The results are summarized in Tables 2 through 4 and are discussed below. All results exceeding a RAL/RML or RSL are shaded and bolded in the tables.

5.1.1.1 Lead

Lead concentrations in residential soils range from 76 mg/kg, in sample SL1740SF, to a high of 590 mg/kg, in sample WA1620SF. In addition to the summary in Tables 2 through 4, the lead results are also presented in Figure 4, where the detected lead concentration for back yard samples in each parcel is color coded for five broad ranges of concentrations, with all parcels exceeding the RSL/RAL coded in red. Three areas with both elevated lead (300 – 399 mg/kg) and RSL/RAL exceedances (>400 mg/kg) are easily identifiable in this figure. The first is

located near the western extent of the sampled area and includes parcels located at 1748, 1750 and 1752 St. Louis Avenue. The second area is located towards the eastern extent and includes 1610, 1614, 1616, 1618, 1620, 1624 and 1626 Wilson Avenue. A third area is included based on an RAL/RSL exceedance at a single location, 1728 Wilson Avenue. There are also several other parcels, identified in Figure 3, where elevated lead levels are present but do not exceed the RAL/RSL.

Note that although entire parcels in Figure 3 are color coded, the coding represents the results of the backyard sample results only. No front yard samples exceeded the lead RAL/RSL and only two of the front yard samples were in the elevated range, SL1720SFX (320 mg/kg) and WA1702SFX (370 mg/kg).

5.1.1.2 Arsenic

Arsenic, although detected in every residential soil sample, was present at a concentration exceeding its RAL/RML of 39 mg/kg in only one sample, SL1748SFX (50 mg/kg), collected in the back yard at 1748 St. Louis Avenue. Lead was also present above its RAL/RML at this location, located near the western extent of the sampled area.

5.1.2 Organochlorine Pesticides

Organochlorine pesticide compounds were detected in samples from all but one property, located at 1718 St. Louis. The results are summarized in Tables 7 through 13. No more than five or six compounds were generally detected in samples from any one property and the concentrations for each compound were generally significantly less than 100 ug/kg (most were less than 20 ug/kg). Three pesticides, however, aldrin, dieldrin and heptachlor epoxide, were detected at concentrations exceeding their respective RSLs in a number of samples. The locations of these exceedances and the detected concentrations are shown on Figure 5, RSL Exceedances, Organochlorine Pesticides, Surface Soil, Residential Soils.

Aldrin was detected in eight samples and exceeded its RSL of 29 ug/kg in only one sample, WA1740SF, where it was reported at a concentration of 64 ug/kg. Heptachlor epoxide was detected in twenty-two samples and exceeded its RSL of 30 ug/kg in only one sample, WA1712SF, where it was reported at a concentration of 58 ug/kg. Dieldrin was detected in forty-four samples and exceeded its RSL of 30 ug/kg in ten samples, where concentrations were found to range from 40 ug/kg, in sample WA1620SF, to a high of 1,400 ug/kg in sample WA1722SF.

5.1.3 Semi-Volatile Organic Compounds

Twenty-one semi-volatile organic compounds were detected in the residential soil samples collected for this investigation. The soil of only one property, 1718 Wilson Avenue, did not have any detectable concentrations of semi-volatile organic compounds reported. This is also the property at which no pesticides were reported.

Of the twenty-one compounds detected, fourteen were non-carcinogenic polynuclear aromatic hydrocarbons (PAHs) and seven were carcinogenic polynuclear aromatic hydrocarbon (CPAH), including benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, indeno(1,2,3-cd)pyrene and chrysene. Of the non-carcinogenic PAHs that were reported, no compound was detected at a concentration exceeding either its RSL or RAL/RML in any of the samples.

With the exception of the sample collected at 1718 Wilson Avenue, there was at least one exceedance of an RSL for the CPAHs in every residential soil sample collected for this investigation, i.e., sixty-two total samples with exceedances. Benzo(a)pyrene equivalents (BAPEs) were calculated for each sample to provide a representation of the toxicity of each soil sample, with respect to the most toxic compound, benzo(a)pyrene. The BAPE RSL is 15 ug/kg, the same as the RSL for benzo(a)pyrene alone. The BAPE RSL was exceeded in all residential soils samples, except for the sample collected at 1718 Wilson Avenue. These calculated values are included in the soils data summary tables for the semi-volatile organic compounds (Tables 16 through 22). The BAPE RAL/RML of 1,500 ug/kg was exceeded in four samples representing three properties, 1714 St. Louis (front yard, 2,096.5 ug/kg), 1620 Wilson Avenue (backyard sample, 3,655.5 ug/kg, and its split, 4,739.6 ug/kg) and 1732 Wilson Avenue (backyard sample, 3174.7 ug/kg). These locations are shown on Figure 6, RAL/RML Exceedances, BAPEs, Residential Soil Samples.

5.2 On-Site Soils

5.2.1 Metals

Four surface soil samples and one subsurface soil sample were collected from four locations within the footprint of the Blackleaf Chemical site. These locations are shown in Figure 3, Sample Location Map, On-Site Samples. All results, summarized in Table 5, were compared to the industrial RSLs and RAL/RMLs for arsenic and lead. Arsenic concentrations ranged from 0.83 mg/kg, in sample BC04SF, to 10 mg/kg, in sample BC02SF, all but sample BC04SF greater than the RSL of 1.6 mg/kg, but considerably less than the arsenic RAL/RML of 160 mg/kg. Lead concentrations ranged from 2.7 mg/kg, in sample BC04SF, to 170 mg/kg, in sample BC02SF. None of the detected concentrations exceed either the RSL or RAL/RML (800 mg/kg for both) for lead.

5.2.2 Organochlorine Pesticides

Six pesticides were detected in the on-site soil samples collected for this investigation, all found in the four surface soil samples. The results are summarized in Table 14. The pesticides found at the highest concentrations were 4,4'-DDD, 4,4'-DDE and 4,4'-DDT. Of these, 4,4'-DDT was found at the highest concentration, 250 ug/kg, in sample BC03SF. No pesticide was detected in any of the on-site soil samples at a concentration exceeding either the RSL or the RAL/RML for each compound.

5.2.3 Semi-Volatile Organic Compounds

Ten non-carcinogenic PAHs and seven CPAHs were detected in on-site soil samples. The results are summarized in Tables 16 through 22. Sample BC04SF was notable for its near absence of these compounds, with only one compound, phenanthrene, detected at an estimated 19 ug/kg. Samples from the other three locations, however, contained numerous semi-volatile organic compounds, primarily PAHs. None of the detected non-carcinogenic PAHs exceeded a respective RSL or RAL/RML. With respect to the CPAHs, one sample, BC02SB, the subsurface sample collected at station BC02, contained benzo(a)pyrene at an estimated 570 ug/kg, greater than the industrial RSL of 210 ug/kg. No other CPAH detected in these soil samples was reported at a concentration greater than its respective RSL. The reported concentrations, however, were used to calculate the BAPE for each of the samples collected at stations BC01 through BC03. The BAPE for each of these samples was greater than the industrial BAPE RSL of 210 ug/kg but no sample result exceeded the RAL/RML.

5.3 Waste Samples

Three samples were collected from within three on-site warehouse structures. They were identified as waste samples, even though they didn't exhibit any particular characteristic of a waste. This was done primarily to distinguish them from soil samples collected during the investigation. BC05WA was a white crystalline or granular appearing material with a texture similar to aquarium gravel. BC06WA and BC07WA were both comprised of what appeared to be dust and "dirt" that had collected on stair steps (BC06WA) and on the warehouse floor (BC07WA).

5.3.1 Metals

The only significant detections for metals, summarized in Table 6, were in samples BC06WA and BC07WA. Arsenic was detected at concentrations of 10 mg/kg and 46, mg/kg, in samples BC06WA and BC07WA, respectively. Both of the reported concentrations exceed the industrial RSL of 1.6 mg/kg but are below the industrial RAL/RML of 160 mg/kg. Lead was detected at concentrations of 3,100 mg/kg and 450 mg/kg in samples BC06WA and BC07WA, respectively. Only sample BC06WA exceeds the industrial RSL and RAL/RML of 800 mg/kg.

5.3.2 Organochlorine Pesticides

Six pesticides were detected in the three waste samples collected from on-site locations. Table 15 is a summary of the reported pesticide results for the waste samples. The lowest concentrations were reported for sample BC05WA, the white granular material. Two pesticides, 4,4'-DDE and 4,4'-DDT, were detected at concentrations of 18 ug/kg and 15 ug/kg, respectively. This suggests that the detected pesticides were most likely present in dust or other surface contamination coating the granules.

5.3.3 Semi-Volatile Organic Compounds

Only two of the three waste samples collected for this investigation (BC06WA and BC07WA) contained reportable concentrations of semi-volatile organic compounds (see Table 24). Eleven semi-volatile organic compounds, primarily PAHs, were detected in the two waste samples. Three compounds, benzo(a)anthracene, benzo(a)pyrene and benzo(b)fluoranthene were present in sample BC06WA at concentrations exceeding their respective industrial RSLs but less than the corresponding RAL/RMLs. Four compounds, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and benzo(k)fluoranthene were present in sample BC07WA at concentrations exceeding their respective industrial RSLs but less than the corresponding RAL/RMLs.

5.4 Quality Control/Quality Assurance Sample

Field quality control/quality assurance for this investigation consisted of the collection of three pan splits and three co-located variability duplicate samples, one of each per team. The pan splits were collected after thorough homogenization of the sample and were collected to assess sample collection and handling techniques, as well as analytical precision in the laboratory. The three splits were collected at stations SL1701, SL1726 and WA1620. The pan split sample results, found in Tables 2 and 3 (metals analysis), Tables 7, 9 and 11 (organochlorine pesticide analysis) and Tables 16, 18 and 20 (semi-volatile organic compounds), show a very good agreement between the two samples constituting each split pair. This is indicative of good sampling technique and analytical precision.

The co-located variability duplicate samples were collected at stations SF1340, SL1740 and WA1702. The results can be found in Tables 2, 3 and 4 (metals), Tables 7, 9 and 12 (organochlorine pesticides) and Tables 16, 18 and 21 (semi-volatile organic compounds). The duplicate samples were collected using the same aliquot pattern used for the primary sample but shifted approximately 10 feet. The results for the samples collected at stations SF1340 and SL1740 agree very well and indicate that there is a low degree of variability in soils in the back yards at these two locations. The results for the samples collected at station WA1702, however, do not show the close agreement found for samples collected at stations SF1340 and SL1740. With respect to the metals data, even though the arsenic results are very close, the lead results

vary considerably, with 210 mg/kg of lead detected in sample WA1702SF, compared to 350 mg/kg detected in WA1702SFD.

6.0 REFERENCES

- 1 Region 4 EPA, Science and Ecosystem Support Division, “*Black Leaf Chemical Removal Assessment*”, February 2012.
- 2 Kentucky Division of Waste Management, Prepared for Region 4 EPA, “*Site Inspection, Former Black Leaf Chemical, 1391 Dixie Highway, Louisville (Jefferson County) Kentucky*”, September 2011.
- 3 Region 4 EPA, Science and Ecosystem Support Division, “*Field Branches Quality System and Technical Procedures*”, Most Recent Versions.
- 4 Region 4 EPA, Analytical Support Division, “*Laboratory Operations and Quality Assurance Manual*”, July 2011.

APPENDICES

Appendix A – Report Figures

Appendix B – Report Tables

Appendix C – Complete Data

Appendix D – Photocopies, Field Logbooks

Appendix A – Report Figures



Figure 1
Site Location Map
Black Leaf Chemical Superfund Site
Louisville, Kentucky

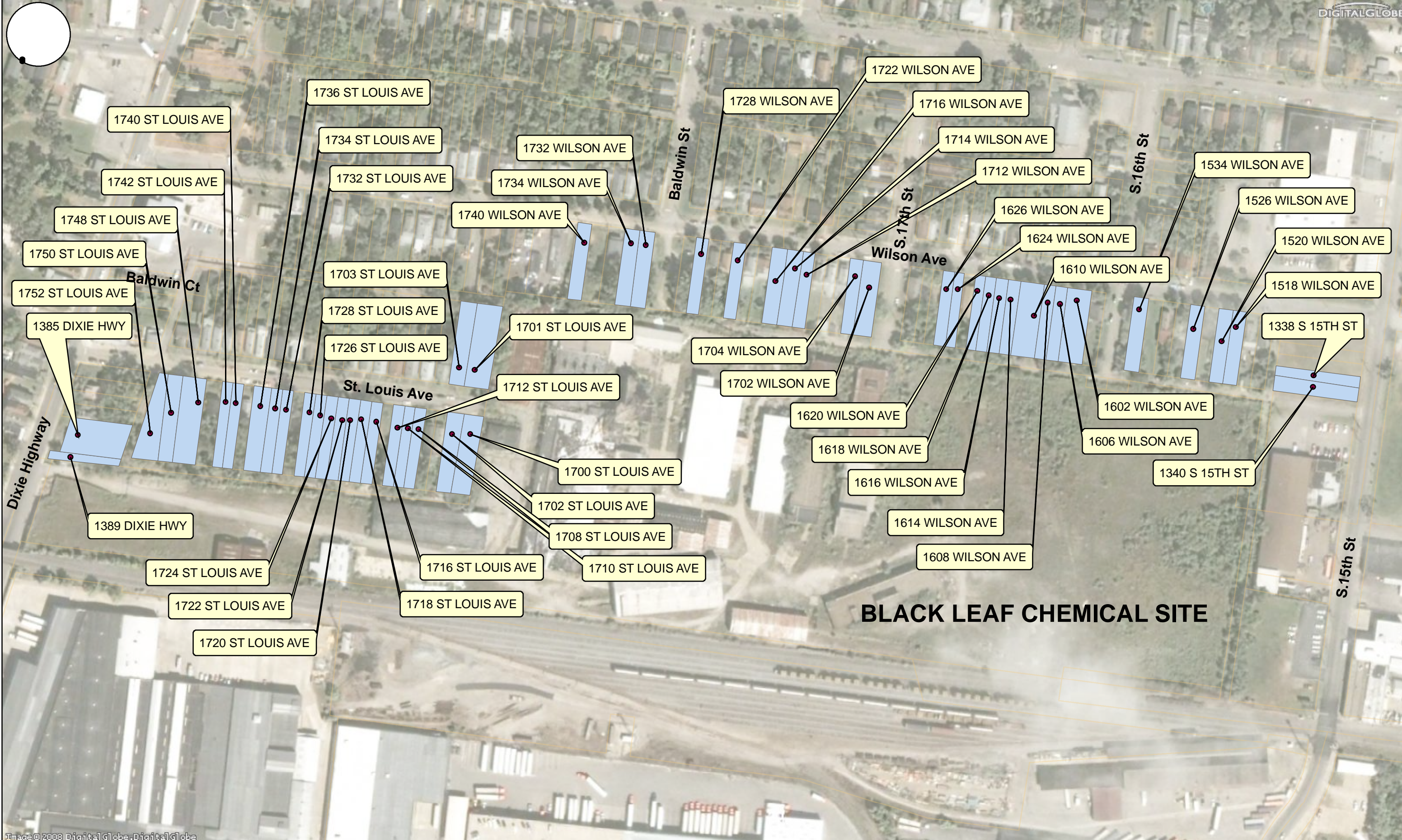


Image © 2008 DigitalGlobe, DigitalGlobe



Legend

- Parcel Street Address (in call-out box)
- Sampled Parcels

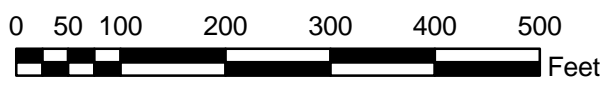


Figure 2
Sample Location Map, Residential/Off-Site Soil Samples
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
SESD Project ID: 12-0195



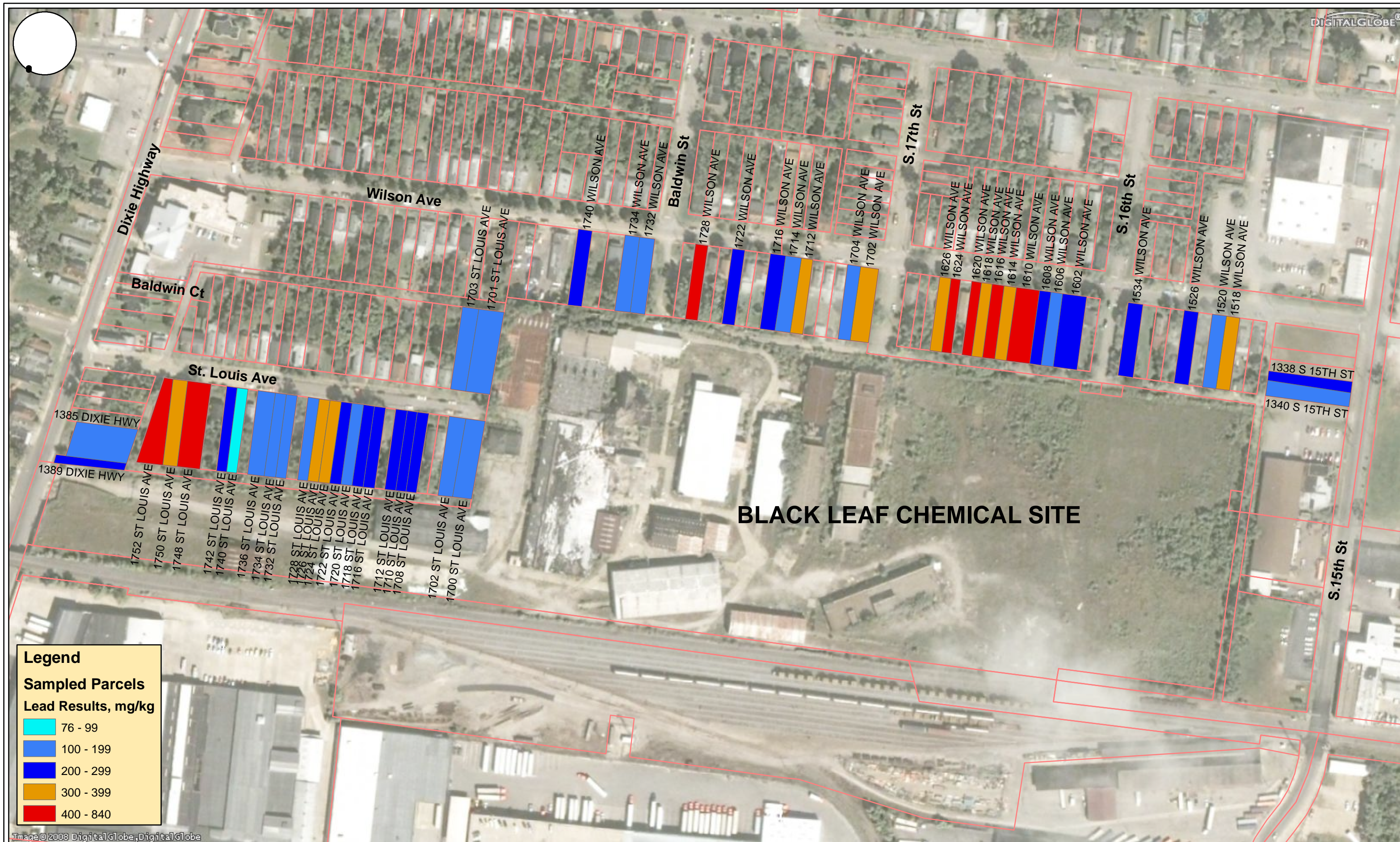
Key:

Sample Station: *

Station ID:
Sample name



Figure 3
Sample Location Map, On-Site Locations
Black Leaf Chemical Removal Assessment
Louisville, Kentucky



Note: Physical address (street address) provided adjacent to sampled parcel.

Figure 4
Lead Results, Surface Soil
Residential/Off-Site Locations
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
Project ID: 12-0195







Appendix B – Report Tables

Table 1
Sample Locations and Descriptions
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012

Residential Soil Samples

| Sample ID | Station ID | Latitude | Longitude | Street Address ¹ |
|-----------|------------|-------------|--------------|--------------------------------|
| SL1701SF | SL1701 | 38.23307668 | -85.78552971 | 1710 St. Louis Ave |
| SL1701SFX | SL1701X | 38.232779 | -85.785639 | 1710 St. Louis Ave, Front Yard |
| SL1703SF | SL1703 | 38.23308439 | -85.78569573 | 1703 St. Louis Ave |
| SL1700SF | SL1700 | 38.23229824 | -85.78567985 | 1700 St. Louis Ave |
| SL1702SF | SL1702 | 38.23235583 | -85.78585372 | 1702 St. Louis Ave |
| SL1708SF | SL1708 | 38.23231832 | -85.78607523 | 1708 St. Louis Ave |
| SL1710SF | SL1710 | 38.23234758 | -85.78614195 | 1710 St. Louis Ave |
| SL1712SF | SL1712 | 38.23235911 | -85.78621889 | 1712 St. Louis Ave |
| SL1714SF | SL1714 | 38.23237922 | -85.78630302 | 1714 St. Louis Ave |
| SL1716SF | SL1716 | 38.23236708 | -85.78636271 | 1716 St. Louis Ave |
| SL1718SF | SL1718 | 38.23232472 | -85.78646342 | 1718 St. Louis Ave |
| SF1340SF | SF1340 | 38.23284573 | -85.77932763 | 1340 South 15th St |
| SF1338SF | SF1338 | 38.23289322 | -85.77936301 | 1338 South 15th St |
| WA1518SF | WA1518 | 38.2329677 | -85.78008788 | 1518 Wilson Ave |
| WA1520SF | WA1520 | 38.23311148 | -85.78012149 | 1520 Wilson Ave |
| WA1526SF | WA1526 | 38.23303951 | -85.78034794 | 1526 Wilson Ave |
| WA1602SF | WA1602 | 38.23315363 | -85.78122626 | 1602 Wilson Ave |
| WA1606SF | WA1606 | 38.23316229 | -85.78136484 | 1606 Wilson Ave |
| WA1608SF | WA1608 | 38.23313143 | -85.78144572 | 1608 Wilson Ave |
| WA1614SF | WA1614 | 38.23313778 | -85.78168582 | 1614 Wilson Ave |
| WA1534SF | WA1534 | 38.23310186 | -85.7807704 | 1534 Wilson Ave |
| WA1518SFX | WA1518X | 38.23327126 | -85.78002929 | 1518 Wilson Ave, Front Yard |
| WA1610SFX | WA1610X | 38.23333388 | -85.78149307 | 1610 Wilson Ave, Front Yard |
| WA1610SF | WA1610 | 38.23315072 | -85.78160981 | 1610 Wilson Ave |
| WA1618SF | WA1618 | 38.23316853 | -85.78187156 | 1618 Wilson Ave |
| WA1616SF | WA1616 | 38.23316469 | -85.78178752 | 1616 Wilson Ave |
| WA1620SF | WA1620 | 38.23316029 | -85.78195768 | 1620 Wilson Ave |
| WA1624SF | WA1624 | 38.23320362 | -85.78210646 | 1624 Wilson Ave |
| SL1720SF | SL1720 | 38.23236836 | -85.78654573 | 1720 St. Louis Ave |
| DH1385SF | DH1385 | 38.23241483 | -85.78841031 | 1385 Dixie Highway |
| DH1389SF | DH1389 | 35.232292 | -85.788329 | 1389 Dixie Highway |
| SL1752SF | SL1752 | 35.232467 | -85.787963 | 1752 St. Louis Ave |
| SL1750SF | SL1750 | 38.23250499 | -85.78785329 | 1750 St. Louis Ave |
| SL1748SF | SL1748 | 38.23247218 | -85.78772206 | 1784 St. Louis Ave |
| SL1742SFX | SL1742X | 38.23270753 | -85.78744087 | 1742 St. Louis Ave, Front Yard |
| SL1742SF | SL1742 | 38.23246645 | -85.78751806 | 1742 St. Louis Ave |
| SL1740SF | SL1740 | 38.23247895 | -85.787402 | 1740 St. Louis Ave |
| SL1736SF | SL1736 | 38.23241888 | -85.78723369 | 1736 St. Louis Ave |
| SL1728SF | SL1728 | 38.23241343 | -85.78686913 | 1728 St. Louis Ave |
| SL1726SF | SL1726 | 38.23240897 | -85.78680041 | 1726 St. Louis Ave |
| SL1724SF | SL1724 | 38.23238688 | -85.78672221 | 1724 St. Louis Ave |
| SL1722SF | SL1722 | 38.23241429 | -85.78663642 | 1722 St. Louis Ave |
| WA1734SF | WA1734 | 38.23345158 | -85.78453633 | 1734 Wilson Ave |
| WA1732SF | WA1732 | 38.23345891 | -85.78439157 | 1732 Wilson Ave |
| WA1740SF | WA1740 | 38.23338844 | -85.78483925 | 1740 Wilson Ave |
| WA1728SF | WA1728 | 38.23335458 | -85.78402497 | 1728 Wilson Ave |
| WA1722SF | WA1722 | 38.23337509 | -85.78371293 | 1722 Wilson Ave |
| WA1716SF | WA1716 | 38.23330799 | -85.78342058 | 1716 Wilson Ave |
| WA1714SF | WA1714 | 38.23330825 | -85.783333 | 1714 Wilson Ave |
| WA1716SFX | WA1716X | 38.23353148 | -85.78341825 | 1716 Wilson Ave, Front Yard |
| WA1702SF | WA1702 | 38.2331969 | -85.78275848 | 1702 Wilson Ave |
| WA1702SFX | WA1702X | 38.23344962 | -85.78271605 | 1702 Wilson Ave, Front Yard |
| WA1704SF | WA1704 | 38.23327921 | -85.7828607 | 1704 Wilson Ave |
| WA1712SF | WA1712 | 38.23332515 | -85.78322609 | 1712 Wilson Ave |
| WA1626SF | WA1626 | 38.23319068 | -85.7822026 | 1626 Wilson Ave |
| SL1734SF | SL1734 | 38.23245483 | -85.78711626 | 1734 Wilson Ave |
| SL1732SF | SL1732 | 38.23244766 | -85.78704661 | 1732 Wilson Ave |

Notes:

1 - All residential soil samples collected from back yards unless otherwise specified.

On-Site Soil Samples

| | | | | |
|--------|------|-------------|--------------|---------------------|
| BC01SF | BC01 | 38.23239247 | -85.78089455 | On-Site, NE corner |
| BC02SF | BC02 | 38.23222025 | -85.78029795 | On-Site, NE corner |
| BC03SF | BC03 | 38.23141267 | -85.78276798 | South side, Bldg 20 |
| BC04SF | BC04 | 38.23168008 | -85.782898 | North side, Bldg 20 |

Waste Samples

| | | | | |
|--------|------|-------------|--------------|--|
| BC05WA | BC05 | 38.23195804 | -85.7829805 | White cyrstalline material, basement Bldg 18 |
| BC06WA | BC06 | 38.23196069 | -85.78297754 | Stair well sweepings, Bldg 18 |
| BC07WA | BC07 | 38.2320537 | -85.78314938 | Floor sweepings, Bldg 17 |

Table 2
Metals Analytical Data Summary, Part 1
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Station ID Sample ID Media Code Sample Date/Time | | | | DH1385 DH1385SF SF 2/14/2012 | DH1389 DH1389SF SF 2/14/2012 | SF1338 SF1338SF SF 2/14/2012 | SF1340 SF1340SF SF 2/14/2012 | SF1340 SF1340SFD SF 2/14/2012 | SL1700 SL1700SF SF 2/15/2012 | SL1701 SL1701SF SF 2/15/2012 | SL1701 SL1701SFS SF 2/15/2012 |
|---|-----------|------------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 15 | 11 | 7.9 | 9.1 | 9.5 | 7.2 | 9.3 | 9.4 |
| Lead | mg/kg dry | 400 | 400 | 140 | 240 | 250 | 110 | 120 | 120 | 130 | 130 |

| Station ID Sample ID Media Code Sample Date/Time | | | | SL1701X SL1701SFX SF 2/15/2012 | SL1702 SL1702SF SF 2/15/2012 | SL1703 SL1703SF SF 2/15/2012 | SL1708 SL1708SF SF 2/15/2012 | SL1710 SL1710SF SF 2/15/2012 | SL1712 SL1712SF SF 2/15/2012 | SL1714 SL1714SF SF 2/15/2012 | SL1716 SL1716SF SF 2/15/2012 |
|---|-----------|------|---------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Analyte | Units | RSL | RAL/RML | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 10 | 7.1 | 10 | 6.7 | 7.4 | 8.2 | 8.3 | 9.8 |
| Lead | mg/kg dry | 400 | 400 | 140 | 100 | 180 | 240 | 260 J | 230 | 260 | 270 |

| Station ID Sample ID Media Code Sample Date/Time | | | | SL1718 SL1718SF SF 2/15/2012 | SL1720 SL1720SF SF 2/15/2012 | SL1722 SL1722SF SF 2/15/2012 | SL1724 SL1724SF SF 2/15/2012 | SL1726 SL1726SF SF 2/15/2012 | SL1726 SL1726SFS SF 2/15/2012 | SL1728 SL1728SF SF 2/15/2012 | SL1732 SL1732SF SF 2/14/2012 |
|---|-----------|------|---------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|
| Analyte | Units | RSL | RAL/RML | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 10 | 9.2 | 8.5 | 8.1 | 10 | 9.6 | 8.5 | 8.1 |
| Lead | mg/kg dry | 400 | 400 | 250 | 190 | 260 | 320 | 330 | 310 | 160 | 180 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 3
Metals Analytical Data Summary, Part 2
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Station ID Sample ID Media Code Sample Date/Time | | | | SL1734 SL1734SF SF 2/14/2012 | SL1736 SL1736SF SF 2/14/2012 | SL1740 SL1740SF SF 2/14/2012 | SL1740 SL1740SFD SF 2/14/2012 | SL1742 SL1742SF SF 2/14/2012 | SL1742X SL1742SFX SF 2/14/2012 | SL1748 SL1748SF SF 2/14/2012 | SL1750 SL1750SF SF 2/14/2012 |
|---|-----------|------------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---|---------------------------------------|---------------------------------------|
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 6.4 | 7.4 | 7.0 | 8.5 | 8.3 | 7.2 | 50 | 8.1 |
| Lead | mg/kg dry | 400 | 400 | 170 | 120 | 76 | 92 | 230 | 320 | 420 | 360 |

| Station ID Sample ID Media Code Sample Date/Time | | | | SL1752 SL1752SF SF 2/14/2012 | WA1518 WA1518SF SF 2/14/2012 | WA1518X WA1518SFX SF 2/14/2012 | WA1520 WA1520SF SF 2/14/2012 | WA1526 WA1526SF SF 2/14/2012 | WA1534 WA1534SF SF 2/15/2012 | WA1602 WA1602SF SF 2/14/2012 | WA1606 WA1606SF SF 2/14/2012 |
|---|-----------|------|---------|---------------------------------------|---------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Analyte | Units | RSL | RAL/RML | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 8.8 | 10 | 8.1 | 6.5 | 7.3 | 7.1 | 7.5 | 8.1 |
| Lead | mg/kg dry | 400 | 400 | 410 | 330 | 270 | 160 | 290 | 210 | 240 | 150 |

| Station ID Sample ID Media Code Sample Date/Time | | | | WA1608 WA1608SF SF 2/14/2012 | WA1610 WA1610SF SF 2/15/2012 | WA1610X WA1610SFX SF 2/15/2012 | WA1614 WA1614SF SF 2/14/2012 | WA1616 WA1616SF SF 2/15/2012 | WA1618 WA1618SF SF 2/15/2012 | WA1620 WA1620SF SF 2/15/2012 | WA1620 WA1620SFS SF 2/15/2012 |
|---|-----------|------|---------|---------------------------------------|---------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|
| Analyte | Units | RSL | RAL/RML | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 11 | 9.1 | 8.1 | 11 | 9.4 | 12 | 8.5 | 8.1 |
| Lead | mg/kg dry | 400 | 400 | 220 | 480 | 220 | 350 | 490 | 390 | 590 | 520 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 4
Metals Analytical Data Summary, Part 3
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Station ID | Sample ID | Media Code | Sample Date/Time | WA1624 WA1624SF SF 2/15/2012 | WA1626 WA1626SF SF 2/14/2012 | WA1702 WA1702SF SF 2/14/2012 | WA1702 WA1702SFD SF 2/14/2012 | WA1702X WA1702SFX SF 2/14/2012 | WA1704 WA1704SF SF 2/14/2012 | WA1712 WA1712SF SF 2/14/2012 | WA1714 WA1714SF SF 2/14/2012 |
|------------|-----------|------------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---|---------------------------------------|---------------------------------------|---------------------------------------|
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 9.4 | 8.5 | 8.4 | 8.8 | 7.8 | 7.8 | 8.4 | 8.0 |
| Lead | mg/kg dry | 400 | 400 | 460 | 370 | 210 | 360 | 370 | 170 | 300 | 190 |

| Station ID | Sample ID | Media Code | Sample Date/Time | WA1716 WA1716SF SF 2/14/2012 | WA1716X WA1716SFX SF 2/14/2012 | WA1722 WA1722SF SF 2/14/2012 | WA1728 WA1728SF SF 2/14/2012 | WA1732 WA1732SF SF 2/14/2012 | WA1734 WA1734SF SF 2/14/2012 | WA1740 WA1740SF SF 2/14/2012 |
|------------|-----------|------------|------------------|---------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Analyte | Units | RSL | RAL/RML | | | | | | | |
| Arsenic | mg/kg dry | 0.39 | 39 | 7.1 | 6.7 | 9.2 | 8.0 | 6.6 | 9.6 | 11 |
| Lead | mg/kg dry | 400 | 400 | 240 | 180 | 200 | 840 | 170 | 110 | 270 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 5
Metals Analytical Data Summary, On-Site Soils
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Station ID Sample ID Media Code Sample Date/Time | | | | BC01 BC01SF SF 2/15/2012 | BC02 BC02SB SB 2/15/2012 | BC02 BC02SF SF 2/15/2012 | BC03 BC03SF SF 2/15/2012 | BC04 BC04SF SF 2/15/2012 |
|---|-----------|------------------|----------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | |
| Arsenic | mg/kg dry | 1.6 | 160 | 4.4 | 9.8 | 10 | 1.7 | 0.83 |
| Lead | mg/kg dry | 800 | 800 | 10 | 170 | 140 | 7.6 | 2.7 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels, Industrial Soil: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels, Industrial Soil: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 6
Waste Sample Data Summary, Metals
Black Leaf Chemical Removal Assessment
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| | | | | Station ID | BC05 | BC06 | BC07 |
|---------|-------|------------------|----------------------|------------------|-------------|-----------|-----------|
| | | | | Sample ID | BC05WA | BC06WA | BC07WA |
| | | | | Media Code | WA | WA | WA |
| | | | | Sample Date/Time | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | |
| Arsenic | mg/kg | 1.6 | 160 | U | 10 | 46 | |
| Lead | mg/kg | 800 | 800 | 1.6 | 3100 | | 450 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels, Industrial Soil: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels, Industrial Soil: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 7

Organochlorine Pesticide Analytical Data Summary, Soils Part 1

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| | | | | Station ID | DH1385 | DH1389 | SF1338 | SF1340 | SF1340 | SL1700 | SL1701 | SL1701 | SL1701X |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | DH1385SF | DH1389SF | SF1338SF | SF1340SF | SF1340SFD | SL1700SF | SL1701SF | SL1701SFS | SL1701SFX |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | U | U | U | U | 7.3 N | U | U | U | U | U |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | U | 13 | 7.2 | 6.1 | 8.0 | 3.6 J | 17 N | 4.8 | 1.3 NJ | |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 11 N | 22 N | 15 | U | 10 | 5.9 | 32 | 7.0 | 2.4 J | |
| Aldrin | ug/kg dry | 29 | 2,900 | U | U | U | 0.25 J | U | U | 0.36 NJ | 0.26 J | 0.23 NJ | |
| alpha-BHC | ug/kg dry | 77 | 7,700 | U | U | U | U | U | U | U | U | U | |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | U | U | U | U | U | U | 1.1 J | U | U | |
| beta-BHC | ug/kg dry | 270 | 27,000 | U | U | U | U | U | U | U | U | U | |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | |
| Dieldrin | ug/kg dry | 30 | 3,000 | U | U | 9.9 | 2.1 NJ | 9.8 | U | U | 0.86 J | 2.2 NJ | |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | |
| Endrin | ug/kg dry | 18,000 | 55,000 | U | U | 3.6 NJ | U | U | U | U | U | U | |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | U | 1.6 J | U | U | U | U | |
| Endrin ketone | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | U | U | U | U | U | U | U | |
| gamma-Chlordane | ug/kg dry | NA | NA | U | U | 4.3 | 3.3 | 3.1 | U | 0.50 NJ | U | 0.48 NJ | |
| Heptachlor | ug/kg dry | 110 | 11,000 | U | U | U | U | U | U | U | U | U | |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | U | 1.4 J | U | U | U | U | 0.45 NJ | U | U | |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | U | U | U | U | |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | U | U | U | U | |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Table 8
Organochlorine Pesticide Analytical Data Summary, Soils Part 2
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj ID: 12-0195

| | | | | Station ID | SL1702 | SL1703 | SL1708 | SL1710 | SL1712 | SL1714 | SL1716 | SL1718 | SL1720 | SL1722 |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | SL1702SF | SL1703SF | SL1708SF | SL1710SF | SL1712SF | SL1714SF | SL1716SF | SL1718SF | SL1720SF | SL1722SF |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | U | 0.81 NJ | U | U | U | U | U | U | U | U | 1.4 J |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | U | 6.2 | 5.7 | 31 | 5.0 | 6.4 | 7.4 | U | 49 N | 8.9 | |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 12 | 11 | 11 | 67 | 9.2 | 13 | 11 N | U | 37 | 16 | |
| Aldrin | ug/kg dry | 29 | 2,900 | U | U | U | | U | U | U | U | U | U | 0.65 J |
| alpha-BHC | ug/kg dry | 77 | 7,700 | U | U | U | U | U | U | U | U | U | U | U |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | U | U | U | U | U | U | 85 N | U | U | U | U |
| beta-BHC | ug/kg dry | 270 | 27,000 | U | U | U | U | U | U | U | U | U | U | U |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Dieldrin | ug/kg dry | 30 | 3,000 | U | 0.63 NJ | 2.5 NJ | 7.2 | 0.90 J | 13 | 20 N | U | U | U | 13 |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | U | U |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | U | U |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Endrin | ug/kg dry | 18,000 | 55,000 | U | U | U | 5.7 | U | U | 2.5 NJ | U | U | U | U |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | 1.4 NJ | U | U | U | U | U | U | U |
| Endrin ketone | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | 0.76 NJ | U | U | U | U | U | U | U | U |
| gamma-Chlordane | ug/kg dry | NA | NA | U | 1.1 NJ | 1.1 J | 6.5 N | U | 9.3 | 69 | U | 1.4 J | 5.1 | |
| Heptachlor | ug/kg dry | 110 | 11,000 | U | 0.33 NJ | U | U | U | U | 0.87 J | U | U | 0.36 J | |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | U | 0.65 NJ | U | U | U | 1.4 NJ | 7.9 N | U | 0.56 J | 0.64 NJ | |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | U | U | U | U | U | U |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | U | U | U | U | U | U |

Data Qualifiers:
U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).
J - The identification of the analyte is acceptable; the reported value is an estimate.
N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:
1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>
2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Table 9

Organochlorine Pesticide Analytical Data Summary, Soils Part 3

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| Analyte | Units | Station ID | | SL1724 | SL1726 | SL1726 | SL1728 | SL1732 | SL1734 | SL1736 | SL1740 | SL1740 |
|----------------------|-----------|------------------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Sample ID | | SL1724SF | SL1726SF | SL1726SFS | SL1728SF | SL1732SF | SL1734SF | SL1736SF | SL1740SF | SL1740SFD |
| | | Media Code | | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | Sample Date/Time | | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 |
| | | RSL ¹ | RAL/RML ² | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | U | U | U | U | U | U | U | U | U |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | 15 | 11 | 7.5 | 5.5 | 4.2 N | 1.6 NJ | 14 | 5.1 | U |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 21 | 14 | 11 | 8.9 N | 6.0 | 6.8 | U | 6.8 N | U |
| Aldrin | ug/kg dry | 29 | 2,900 | < 2.1 U | U | U | U | U | U | U | U | U |
| alpha-BHC | ug/kg dry | 77 | 7,700 | U | U | U | U | U | U | U | U | U |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | U | 1.9 NJ | U | U | 3.9 N | 1.3 J | 200 N | 1.7 NJ | U |
| beta-BHC | ug/kg dry | 270 | 27,000 | U | U | U | U | U | U | U | U | U |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U |
| Dieldrin | ug/kg dry | 30 | 3,000 | 1.4 J | U | 0.54 J | 1.3 NJ | 0.83 NJ | U | U | U | U |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | 0.65 J | U | U | U | U |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U |
| Endrin | ug/kg dry | 18,000 | 55,000 | U | U | U | U | U | U | U | U | U |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | 4.1 NJ | U | U | U | U | U |
| Endrin ketone | ug/kg dry | NA | NA | U | 4.0 | U | U | U | U | U | U | U |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | U | U | U | U | U | U | U |
| gamma-Chlordane | ug/kg dry | NA | NA | 1.4 NJ | 2.5 N | 0.58 NJ | 4.2 | 2.5 | U | 120 | U | 0.83 NJ |
| Heptachlor | ug/kg dry | 110 | 11,000 | U | U | U | 0.37 NJ | U | U | 0.51 NJ | 0.30 NJ | U |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | 0.95 NJ | U | U | 1.4 NJ | 0.96 J | U | 15 | U | U |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | U | U | U | U |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | U | U | U | U |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Table 10

Organochlorine Pesticide Analytical Data Summary, Soils Part 4

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| | | | | Station ID | SL1742 | SL1742X | SL1748 | SL1750 | SL1752 | WA1518 | WA1518X | WA1520 | WA1526 | WA1534 |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | SL1742SF | SL1742SFX | SL1748SF | SL1750SF | SL1752SF | WA1518SF | WA1518SFX | WA1520SF | WA1526SF | WA1534SF |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/15/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | U | U | U | 53 | U | 5.1 | 90 N | U | U | U | 3.6 J |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | 8.2 NJ | 41 N | 140 | U | U | 38 N | 340 | 32 | 8.2 | 120 | 270 |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 36 J | 51 | 2800 | 43 NJ | 70 J | 830 | 24 | 9.7 | 53 | 76 | |
| Aldrin | ug/kg dry | 29 | 2,900 | U | U | U | U | U | U | 1.8 NJ | U | U | U | U |
| alpha-BHC | ug/kg dry | 77 | 7,700 | U | U | U | U | U | U | U | U | U | U | 0.46 J |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | 160 N | U | U | U | U | 5.0 N | U | U | U | U | U |
| beta-BHC | ug/kg dry | 270 | 27,000 | U | U | U | U | U | U | U | U | U | U | U |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Dieldrin | ug/kg dry | 30 | 3,000 | 17 J | 43 | U | U | U | 1.3 NJ | 62 | 18 | 12 N | 81 | 16 |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | U | U |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | U | U |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | 2.6 J |
| Endrin | ug/kg dry | 18,000 | 55,000 | U | U | U | U | U | U | U | U | U | U | U |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | U | U | U | 15 J | U | U | U | 1.3 NJ |
| Endrin ketone | ug/kg dry | NA | NA | U | U | U | U | U | U | U | 0.48 NJ | U | U | U |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | U | U | U | U | U | U | U | U | U |
| gamma-Chlordane | ug/kg dry | NA | NA | 120 N | 350 | 5.9 J | U | U | 4.6 | 10 NJ | 3.6 N | 3.7 N | U | U |
| Heptachlor | ug/kg dry | 110 | 11,000 | 3.6 NJ | 11 J | U | U | U | U | U | U | U | U | U |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | U | U | U | U | U | U | 0.97 NJ | U | U | U | U |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | U | U | U | U | U | U |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | U | U | U | U | U | U |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Table 11

Organochlorine Pesticide Analytical Data Summary, Soils Part 5

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| | | | | Station ID | WA1602 | WA1606 | WA1608 | WA1610 | WA1610X | WA1614 | WA1616 | WA1618 | WA1620 | WA1620 |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | WA1602SF | WA1606SF | WA1608SF | WA1610SF | WA1610SFX | WA1614SF | WA1616SF | WA1618SF | WA1620SF | WA1620SFS |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/15/2012 | 2/15/2012 | 2/14/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | U | U | U | U | 39 | U | 3.3 J | U | U | U | U |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | 170 | 110 | 290 | 330 | 12 | 270 | 220 | 380 | 150 | 130 | 130 |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 77 | 51 | 110 | 150 | 11 | 120 | 130 | 260 | 130 | 110 | 110 |
| Aldrin | ug/kg dry | 29 | 2,900 | 4.7 N | U | U | U | U | U | U | U | U | U | U |
| alpha-BHC | ug/kg dry | 77 | 7,700 | 0.48 J | U | 0.71 NJ | 0.53 NJ | U | U | 0.83 NJ | 0.51 NJ | U | U | U |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | U | U | U | U | U | U | U | U | U | U | U |
| beta-BHC | ug/kg dry | 270 | 27,000 | 0.75 J | U | U | 0.78 NJ | U | U | 0.92 J | U | U | U | U |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | 0.55 J | U | U | U | U | U | U | U |
| Dieldrin | ug/kg dry | 30 | 3,000 | 800 O | 23 | 23 | 88 | 1.8 NJ | 22 | 8.9 N | 95 | U | 40 NJ | 40 NJ |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | 0.55 J | U | U | U | U | U | U | U |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | 0.54 J | U | U | U | U | U | U | U | U | U | U |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | U | 2.2 J | U | U | U | U |
| Endrin | ug/kg dry | 18,000 | 55,000 | 14 | 5.3 N | U | U | U | U | U | U | U | U | U |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Endrin ketone | ug/kg dry | NA | NA | 3.3 NJ | U | U | U | U | U | 1.8 J | U | U | U | U |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | U | U | U | U | U | U | U | U | U |
| gamma-Chlordane | ug/kg dry | NA | NA | 14 | 5.5 | U | 62 | 0.92 J | U | 3.6 | 170 | 10 NJ | U | U |
| Heptachlor | ug/kg dry | 110 | 11,000 | U | 1.0 J | U | 4.0 | U | U | U | 4.0 | U | U | U |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | U | 1.4 NJ | U | 46 | 0.79 NJ | U | U | 30 N | U | 4.8 NJ | 4.8 NJ |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | U | U | U | U | U | U |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | U | U | U | U | U | U |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Table 12

Organochlorine Pesticide Analytical Data Summary, Soils Part 6

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| | | | | Station ID | WA1624 | WA1626 | WA1702 | WA1702 | WA1702X | WA1704 | WA1712 | WA1714 | WA1716 | WA1716X |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | WA1624SF | WA1626SF | WA1702SF | WA1702SFD | WA1702SFX | WA1704SF | WA1712SF | WA1714SF | WA1716SF | WA1716SFX |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/15/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | 3.5 J | U | U | U | U | U | U | U | U | U | U |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | 200 | 300 | 54 N | 81 | 23 | 41 NJ | 110 | 110 | 48 | 14 | |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 87 | 340 | 62 N | 65 N | 12 | 39 NJ | 56 | 65 | 29 N | 11 N | |
| Aldrin | ug/kg dry | 29 | 2,900 | U | U | U | U | U | U | U | U | U | U | U |
| alpha-BHC | ug/kg dry | 77 | 7,700 | U | U | U | U | U | U | U | U | U | U | U |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | U | U | U | U | U | U | U | U | U | U | U |
| beta-BHC | ug/kg dry | 270 | 27,000 | U | 0.60 NJ | U | U | U | U | 0.62 NJ | U | U | U | U |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | U | U | U | U | 0.50 J | U | U | U |
| Dieldrin | ug/kg dry | 30 | 3,000 | 26 | 67 | 14 NJ | 20 J | 2.1 J | 16 NJ | U | 29 N | U | U | U |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | < 21 U | U | U | U | U | U | U | U |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | U | U | U | U | U | U |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Endrin | ug/kg dry | 18,000 | 55,000 | U | U | 6.6 NJ | U | U | U | U | U | 20 | 4.0 NJ | |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | U | 0.53 J | U | U | U | 3.8 NJ | U | |
| Endrin ketone | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | U | U | U | U | U | U | U | U | U |
| gamma-Chlordane | ug/kg dry | NA | NA | U | U | U | U | U | U | 98 | 30 | U | U | U |
| Heptachlor | ug/kg dry | 110 | 11,000 | U | U | U | U | U | U | 9.4 | U | U | U | U |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | U | U | U | U | U | U | 58 | 9.4 N | U | U | U |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | U | 5.9 J | U | U | U | U |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | U | U | U | U | U | U |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Table 13

Organochlorine Pesticide Analytical Data Summary, Soils Part 7

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| | | | | Station ID | WA1722 | WA1728 | WA1732 | WA1734 | WA1740 |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | WA1722SF | WA1728SF | WA1732SF | WA1734SF | WA1740SF |
| | | | | Media Code | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 | 2/14/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 2,000 | 200,000 | U | U | U | U | U | U |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 1,400 | 140,000 | 120 | 74 | 21 | 8.8 | 13 | |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 1,700 | 110,000 | 62 | 51 | 16 | 9.0 | 17 | |
| Aldrin | ug/kg dry | 29 | 2,900 | U | U | U | U | 64 | |
| alpha-BHC | ug/kg dry | 77 | 7,700 | U | U | U | U | U | |
| alpha-Chlordane | ug/kg dry | 1,600 | 110,000 | U | U | U | U | U | |
| beta-BHC | ug/kg dry | 270 | 27,000 | U | U | U | U | U | |
| delta-BHC | ug/kg dry | NA | NA | U | U | U | U | U | |
| Dieldrin | ug/kg dry | 30 | 3,000 | 1400 | U | 8.0 N | 29 | 42 | |
| Endosulfan I (alpha) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | |
| Endosulfan II (beta) | ug/kg dry | 370,000 | 1,100,000 | U | U | U | U | U | |
| Endosulfan Sulfate | ug/kg dry | NA | NA | U | U | U | U | U | |
| Endrin | ug/kg dry | 18,000 | 55,000 | U | 7.4 N | U | U | U | |
| Endrin aldehyde | ug/kg dry | NA | NA | U | U | U | U | U | |
| Endrin ketone | ug/kg dry | NA | NA | U | U | U | 0.81 J | U | |
| gamma-BHC (Lindane) | ug/kg dry | 520 | 52,000 | U | U | U | U | U | |
| gamma-Chlordane | ug/kg dry | NA | NA | 10 J | 1.9 NJ | 2.5 N | 3.0 | 16 | |
| Heptachlor | ug/kg dry | 110 | 11,000 | U | 0.22 J | U | 1.0 NJ | 3.2 | |
| Heptachlor epoxide | ug/kg dry | 53 | 2,400 | U | U | 1.1 NJ | 0.86 NJ | 2.7 N | |
| Methoxychlor | ug/kg dry | NA | 920,000 | U | U | U | U | U | |
| Toxaphene | ug/kg dry | 440 | 44,000 | U | U | U | U | U | |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Table 14

Organochlorine Pesticide Analytical Data Summary, On-Site Soils

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj ID: 12-0195

| | | | | Station ID | BC01 | BC02 | BC02 | BC03 | BC04 |
|----------------------|-----------|------------------|----------------------|------------------|-----------|-----------|-----------|-----------|-----------|
| | | | | Sample ID | BC01SF | BC02SF | BC02SB | BC03SF | BC04SF |
| | | | | Media Code | SF | SF | SB | SF | SF |
| | | | | Sample Date/Time | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | |
| 4,4'-DDD (p,p'-DDD) | ug/kg dry | 7,200 | 800,000 | U | 21 N | U | 32 NJ | U | |
| 4,4'-DDE (p,p'-DDE) | ug/kg dry | 5,100 | 560,000 | 86 | 76 N | U | 190 O | U | |
| 4,4'-DDT (p,p'-DDT) | ug/kg dry | 7,000 | 780,000 | 29 N | 50 | U | 250 | U | |
| Aldrin | ug/kg dry | 100 | 11,000 | U | 0.65 NJ | U | U | 0.38 NJ | |
| alpha-BHC | ug/kg dry | 270 | 30,000 | U | U | U | U | U | |
| alpha-Chlordane | ug/kg dry | NL | NL | U | U | U | U | U | |
| beta-BHC | ug/kg dry | 960 | 110,000 | U | U | U | U | U | |
| delta-BHC | ug/kg dry | NL | NL | U | U | U | U | U | |
| Dieldrin | ug/kg dry | 110 | 12,000 | U | U | U | 23 NJ | U | |
| Endosulfan I (alpha) | ug/kg dry | NL | NL | U | U | U | U | U | |
| Endosulfan II (beta) | ug/kg dry | NL | NL | U | U | U | U | U | |
| Endosulfan Sulfate | ug/kg dry | NL | NL | U | U | U | U | U | |
| Endrin | ug/kg dry | 180,000 | 620,000 | U | U | U | U | U | |
| Endrin aldehyde | ug/kg dry | NL | NL | 3.4 NJ | U | U | U | U | |
| Endrin ketone | ug/kg dry | NL | NL | U | U | U | U | U | |
| gamma-BHC (Lindane) | ug/kg dry | 2,100 | 230,000 | U | U | U | U | U | |
| gamma-Chlordane | ug/kg dry | NL | NL | U | U | U | U | U | |
| Heptachlor | ug/kg dry | 380 | 43,000 | U | U | U | U | U | |
| Heptachlor epoxide | ug/kg dry | 190 | 21,000 | U | U | U | U | U | |
| Methoxychlor | ug/kg dry | 3,100,000 | 10,000,000 | U | U | U | U | U | |
| Toxaphene | ug/kg dry | 1,600 | 170,000 | U | U | U | U | U | |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits).

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

N - There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

NL - Not listed

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Table 15
Organochlorine Pesticide Analytical Data Summary, Waste Samples
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| | | | Sample ID | BC05WA | BC06WA | BC07WA |
|--------------------|------------------|------------------|-----------------|------------|-----------|-----------|
| | | | Location ID | BC05 | BC06 | BC07 |
| | | | Matrix | Waste | Waste | Waste |
| | | | Collection Date | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| Pesticides (ug/kg) | RSL ¹ | RAL ² | | | | |
| 4,4'-DDD | 7200 | 800000 | 3.3 U | 340 | | 51 |
| 4,4'-DDE | 5100 | 560000 | 18 | 2500 | | 240 |
| 4,4'-DDT | 7000 | 780000 | 15 | 3400 | | 160 |
| Aldrin | 100 | 11000 | 1.7 U | 20 U | | 17 U |
| alpha-BHC | 270 | 30,000 | 1.7 U | 20 U | | 17 U |
| alpha-Chlordane | NL | NL | 1.7 U | 42 | | 17 U |
| beta-BHC | 960 | 110,000 | 1.7 U | 150 | | 17 U |
| delta-BHC | NL | NL | 1.7 U | 20 U | | 17 U |
| Dieldrin | 110 | 12,000 | 4.6 | 160 | | 34 U |
| Endosulfan I | NL | NL | 1.7 U | 20 U | | 17 U |
| Endosulfan II | NL | NL | 3.3 U | 39 U | | 34 U |
| Endosulfan sulfate | NL | NL | 3.3 U | 39 U | | 34 U |
| Endrin | 180,000 | 620,000 | 3.3 U | 39 U | | 34 U |
| Endrin aldehyde | NL | NL | 3.3 U | 39 U | | 34 U |
| Endrin ketone | NL | NL | 3.3 U | 39 U | | 34 U |
| gamma-BHC | 2,100 | 230,000 | 1.7 U | 20 U | | 17 U |
| gamma-Chlordane | NL | NL | 1.7 U | 20 U | | 17 U |
| Heptachlor | 380 | 43,000 | 1.7 U | 20 U | | 17 U |
| Heptachlor epoxide | 190 | 21,000 | 1.7 U | 20 U | | 17 U |
| Methoxychlor | 3,100,000 | 10,000,000 | 17 U | 200 U | | 170 U |
| Toxaphene | 1600 | 170,000 | 170 U | 2000 U | | 1700 U |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (number listed with "U" qualifier)

NL - Not Listed

Notes:

1 - EPA Regional Screening Level, Industrial Soil: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels, On-Site Worker, Soils

Bold Orange - Exceeds EPA RSL, Industrial

Table 16
Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 1
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| | | | | Station ID | DH1385 | DH1389 | SF1338 | SF1340 | SF1340 | SL1700 | SL1701 | SL1701 | SL1701X |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|---------------|---------------|--------------|---------------|---------------|--------------|--------------|--------------|
| | | | | Sample ID | DH1385SF | DH1389SF | SF1338SF | SF1340SF | SF1340SFD | SL1700SF | SL1701SF | SL1701SFS | SL1701SFX |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/12 10:30 | 2/14/12 10:00 | 2/14/12 11:35 | 2/14/12 9:50 | 2/14/12 10:35 | 2/15/12 10:10 | 2/15/12 8:55 | 2/15/12 8:55 | 2/15/12 9:18 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | 59 J | 120 J | 34 J | U | U | U | 23 J | U | 24 J | U |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | U | U | U | U | U | U | U | U | U | U |
| Acenaphthylene | ug/kg dry | NA | NA | U | U | U | U | U | U | U | 22 J | U | U |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | U | U | U | 23 J | U | U | 25 J | 23 J | U | U |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | 32 J | 45 J | 26 J | 55 J | 290 J | 26 J | 38 J | U | U | U |
| Benzyl butyl phthalate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | U | 770 | U | U | U | U | U | U | U | U |
| Carbazole | ug/kg dry | NA | NA | U | U | U | 22 J | U | U | 32 J | U | U | U |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | U | 35 J | U | U | U | U | U | U | U | U |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | U | U | U | U | U | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | 120 J | 200 J | 290 | 450 | 1500 J | 290 | 170 J | 170 J | 170 J | 120 J |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | U | U | U | U | U | U | U | U | U | U |
| Phenanthrene | ug/kg dry | NA | NA | 92 J | 180 J | 140 J | 180 J | 700 J | 200 J | 120 J | 100 J | 66 J | 66 J |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | 190 J | 240 | 340 | 470 | 1900 J | 330 | 210 J | 190 J | 120 J | 120 J |

Carcinogenic PAHs

| | | | | | | | | | | | | |
|--------------------------|-----------|--------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 86 J | 100 J | 150 J | 180 J | 700 J | 140 J | 110 J | 93 J | 70 J |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | U | U | 23 J | 32 J | U | 24 J | U | U | U |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 180 J | 180 J | 260 | 290 | 980 J | 210 J | 190 J | 160 J | 110 J |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 56 J | 42 J | 80 J | 110 J | 320 J | 60 J | 61 J | 49 J | 34 J |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 83 J | 120 J | 150 J | 200 J | 800 J | 140 J | 110 J | 100 J | 71 J |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 66 J | 87 J | 88 J | 140 J | 610 J | 91 J | 63 J | 43 J | 34 J |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 120 J | 130 J | 170 J | 230 | 880 J | 160 J | 120 J | 130 J | 96 J |

| | | | | | | | | | | | | |
|--|-----------|----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 119.58 | 139.25 | 223.77 | 276.33 | 943.08 | 208.86 | 147.03 | 123.92 | 91.936 |
|--|-----------|----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 17
Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 2
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| SESD Proj. ID: 02-0195 | | | | Station ID | SL1702 | SL1703 | SL1708 | SL1710 | SL1712 | SL1714 | SL1716 | SL1718 | SL1720 | SL1722 |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | Sample ID | SL1702SF | SL1703SF | SL1708SF | SL1710SF | SL1712SF | SL1714SF | SL1716SF | SL1718SF | SL1720SF | SL1722SF |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/15/12 10:33 | 2/15/12 9:38 | 2/15/12 10:50 | 2/15/12 12:17 | 2/15/12 12:40 | 2/15/12 13:00 | 2/15/12 13:17 | 2/15/12 13:33 | 2/15/12 13:50 | 2/15/12 10:15 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | | |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | 25 J | U | 23 J | 33 J | 39 J | 30 J | 40 J | U | | 43 J | U |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | U | U | U | U | U | U | U | U | U | U | U |
| Acenaphthylene | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | U | U | 23 J | U | U | 33 J | U | U | U | U | U |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | 24 J | 45 J | 51 J | U | U | 91 J | 38 J | U | U | U | U |
| Benzyl butyl phthalate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | 29000 J |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | U | U | U | 440 | 330 | 400 J | U | U | U | 240 | 16000 J |
| Carbazole | ug/kg dry | NA | NA | U | U | U | U | U | 28 J | U | U | U | U | U |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | U | U | U | U | U | U | U | U | U | U | U |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | U | U | U | U | U | 970 | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | 120 J | 110 J | 240 | 190 J | 220 | 290 | 140 J | U | U | 110 J | U |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | U | U | U | U | U | U | U | U | U | U | U |
| Phenanthrene | ug/kg dry | NA | NA | 96 J | 78 J | 110 J | 110 J | 130 J | 150 J | 99 J | U | U | 89 J | U |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | 160 J | 150 J | 290 | 220 | 210 J | 410 J | 180 J | U | U | 120 J | 240 J |

Carcinogenic PAHs

| | | | | | | | | | | | | | |
|--------------------------|-----------|--------|-----------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|---|-------------|---------------|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 71 J | 82 J | 140 J | 110 J | 97 J | 230 J | 99 J | U | 66 J | U |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | U | U | 22 J | U | U | 31 J | U | U | U | U |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 120 J | 140 J | 250 J | 200 J | 160 J | 370 J | 170 J | U | 110 J | 250 J |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 41 J | 46 J | 76 J | 70 J | 46 J | 130 J | 43 J | U | 33 J | U |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 75 J | 75 J | 150 J | 130 J | 110 J | 220 J | 100 J | U | 72 J | 2100 J |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 45 J | 71 J | 80 J | 78 J | 51 J | 94 J | 57 J | U | 32 J | U |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 83 J | 96 J | 180 J | 140 J | 140 J | 230 J | 120 J | U | 91 J | U |

| | | | | | | | | | | | | | |
|---|-----------|----|-------|---------------|----------------|---------------|---------------|--------------|---------------|---------------|---|---------------|------------|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 95.493 | 111.156 | 210.94 | 151.64 | 129.7 | 330.93 | 132.25 | 0 | 87.821 | 235 |
|---|-----------|----|-------|---------------|----------------|---------------|---------------|--------------|---------------|---------------|---|---------------|------------|

Data Qualifiers:

- U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)
- J - The identification of the analyte is acceptable; the reported value is an estimate.

Notes:

- 1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>
- 2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 18
Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 3
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Analyte | Units | Station ID | | SL1724 | SL1726 | SL1726 | SL1728 | SL1732 | SL1734 | SL1736 | SL1740 | SL1740 |
|-----------------------------|-----------|------------------|----------------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| | | Sample ID | | SL1724SF | SL1726SF | SL1726SFS | SL1728SF | SL1732SF | SL1734SF | SL1736SF | SL1740SF | SL1740SFD |
| | | Media Code | | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | Sample Date/Time | | 2/15/12 9:55 | 2/15/12 9:20 | 2/15/12 9:20 | 2/15/12 9:00 | 2/14/12 17:10 | 2/14/12 16:45 | 2/14/12 16:15 | 2/14/12 14:30 | 2/14/12 14:40 |
| | | RSL ¹ | RAL/RML ² | | | | | | | | | |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | 58 J | 52 J | 83 J | 31 J | 27 J | 31 J | 87 J | 68 J | 56 J |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | U | U | U | U | U | U | U | U | U |
| Acenaphthylene | ug/kg dry | NA | NA | U | U | U | U | 25 J | 25 J | U | U | U |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | 32 J | 44 J | 94 J | 35 J | 27 J | 180 J | 22 J | U | 25 J |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | 44 J | 52 J | 54 J | 52 J | 59 J | 130 J | 30 J | 24 J | U |
| Benzyl butyl phthalate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | 460 J | 410 | 6300 | 260 | U | U | U | U | U |
| Carbazole | ug/kg dry | NA | NA | 39 J | 36 J | 120 J | 30 J | U | 110 J | 27 J | U | 25 J |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | U | 23 J | 53 J | U | U | U | 33 J | 23 J | 22 J |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | U | U | U | U | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | 290 | 370 | 910 | 340 | 270 | 2000 | 180 J | 150 J | 240 |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | U | U | 46 J | U | U | 23 J | U | U | U |
| Phenanthrene | ug/kg dry | NA | NA | 250 | 310 | 790 | 230 | 160 J | 740 | 190 J | 140 J | 210 |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | 340 J | 460 | 840 | 410 | 400 J | 2300 | 220 | 180 J | 310 |

Carcinogenic PAHs

| | | | | | | | | | | | | |
|---|-----------|--------|-----------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 140 J | 200 J | 320 | 170 J | 200 J | 570 J | 97 J | 86 J | 130 J |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | U | 29 J | 43 J | 26 J | 28 J | 68 J | U | U | U |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 280 J | 350 | 570 | 330 J | 310 J | 1100 J | 170 J | 160 J | 220 |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 70 J | 99 J | 130 J | 95 J | 110 J | 370 J | 60 J | 44 J | 79 J |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 150 J | 210 J | 410 J | 180 J | 180 J | 870 J | 110 J | 91 J | 140 J |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 72 J | 98 J | 130 J | 87 J | 100 J | 240 J | 52 J | 46 J | 67 J |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 180 J | 240 | 540 | 190 J | 200 J | 910 | 120 J | 110 J | 160 J |
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 191.08 | 296.03 | 475.84 | 256.84 | 288.3 | 863.61 | 130.92 | 116.25 | 173.65 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Risk Management Level

Table 19
Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 4
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| | | | | | | | | | | | | | | |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| SESD Proj. ID: 02-10195 | | | | Station ID | SL1742 | SL1742X | SL1748 | SL1750 | SL1752 | WA1518 | WA1518X | WA1520 | WA1526 | WA1534 |
| | | | | Sample ID | SL1742SF | SL1742SFX | SL1748SF | SL1750SF | SL1752SF | WA1518SF | WA1518SFX | WA1520SF | WA1526SF | WA1534SF |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/12 14:05 | 2/14/12 13:45 | 2/14/12 12:15 | 2/14/12 12:00 | 2/14/12 11:00 | 2/14/12 13:10 | 2/14/12 13:35 | 2/14/12 14:05 | 2/14/12 14:35 | 2/15/12 8:55 |
| Analyte | Units | RSL ¹ | RAL/RML ² | | | | | | | | | | | |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | U | U | 77 J | U | 69 J | U | 24 J | U | 52 J | 42 J | |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | U | 360 J | U | U | U | U | U | U | U | U | |
| Acenaphthylene | ug/kg dry | NA | NA | U | U | U | U | U | 130 J | 54 J | U | U | U | |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | U | 870 J | 21 J | U | U | 180 J | 110 J | U | U | 35 J | |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | 400 J | 530 J | U | U | 29 J | 280 J | 55 J | U | 24 J | U | |
| Benzyl butyl phthalate | ug/kg dry | NA | NA | U | U | U | U | 650 | U | U | U | U | U | |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | U | U | U | 33000 | U | U | U | U | 600 | 2800 | |
| Carbazole | ug/kg dry | NA | NA | U | 730 J | U | U | U | 150 J | 78 J | U | U | U | |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | U | U | 28 J | U | U | U | U | U | U | U | |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | U | U | U | U | U | U | U | U | U | U | |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | 1800 J | 5200 | 280 | 420 J | 140 J | 2100 | 1100 | 150 J | 260 | 380 | |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | U | 310 J | U | U | U | U | 25 J | U | U | U | |
| Phenanthrene | ug/kg dry | NA | NA | 1100 J | 4600 | 190 J | 290 J | 130 J | 1200 | 630 | 64 J | 150 J | 170 J | |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | 2300 | 6600 | 270 | 530 J | 160 J | 2100 | 1200 | 140 J | 290 | 380 | |

Carcinogenic PAHs

| | | | | | | | | | | | | | |
|--------------------------|-----------|--------|-----------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 950 J | 1900 J | 120 J | U | 82 J | 850 J | 450 J | 61 J | 110 J | 190 J |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | U | 350 J | U | U | U | 130 J | 64 J | U | 24 J | 30 J |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 1600 J | 3100 | 200 J | 370 J | 150 J | 1200 | 750 J | 110 J | 180 J | 290 J |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 480 J | 1100 J | 55 J | U | 42 J | 350 J | 260 J | 33 J | 49 J | 96 J |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 940 J | 2400 J | 140 J | 300 J | 86 J | 1000 J | 580 J | 62 J | 140 J | 220 J |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 530 J | 930 J | 57 J | U | 57 J | 410 J | 230 J | 37 J | 95 J | 96 J |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 960 J | 2500 | 180 J | 330 J | 100 J | 1200 | 550 | 87 J | 150 J | 240 |

| | | | | | | | | | | | | | |
|--|-----------|----|-------|---------|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 1262.76 | 2906.5 | 174.43 | 67.33 | 111.82 | 1245.7 | 673.15 | 82.317 | 176.14 | 281.8 |
|--|-----------|----|-------|---------|--------|--------|-------|--------|--------|--------|--------|--------|-------|

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)
J - The identification of the analyte is acceptable; the reported value is an estimate.

Notes:

- 1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>
- 2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 20
Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 5
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Analyte | Units | RSL ¹ | RAL/RML ² | Station ID | WA1602 | WA1606 | WA1608 | WA1610 | WA1610X | WA1614 | WA1616 | WA1618 | WA1620 | WA1620 |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | Sample ID | WA1602SF | WA1606SF | WA1608SF | WA1610SF | WA1610SFX | WA1614SF | WA1616SF | WA1618SF | WA1620SF | WA1620SFS |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/12 15:40 | 2/14/12 16:25 | 2/14/12 16:50 | 2/15/12 10:00 | 2/15/12 10:00 | 2/14/12 17:15 | 2/15/12 11:00 | 2/15/12 10:40 | 2/15/12 11:30 | 2/15/12 11:35 |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | U | U | 27 J | 36 J | U | 25 J | 26 J | U | U | U | U |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | U | U | U | U | U | U | U | U | 370 J | 400 J | U |
| Acenaphthylene | ug/kg dry | NA | NA | U | U | U | U | U | 24 J | U | U | U | U | U |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | U | 56 J | 27 J | 28 J | U | 53 J | 54 J | U | 1700 J | 2500 J | U |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | 32 J | 49 J | U | 61 J | U | 62 J | 57 J | U | 1100 J | 750 J | U |
| Benzyol butyl phthalate | ug/kg dry | NA | NA | U | U | U | U | U | U | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | U | U | U | 3300 | U | U | U | U | U | U | U |
| Carbazole | ug/kg dry | NA | NA | U | 39 J | U | 24 J | U | 42 J | 32 J | U | 1200 J | 1600 J | U |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | U | U | U | U | U | U | U | U | 500 J | 610 J | U |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | U | U | U | U | U | U | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | 210 J | 350 | 220 | 330 | 64 J | 510 | 440 | 660 J | 8600 | 11000 | U |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | U | U | U | U | U | U | U | U | 460 J | 570 J | U |
| Phenanthrene | ug/kg dry | NA | NA | 130 J | 240 | 140 J | 180 J | 37 J | 340 | 280 | 510 J | 8100 | 11000 | U |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | 210 J | 330 | 270 | 330 | 68 J | 470 | 440 | 770 J | 8300 | 11000 | U |

Carcinogenic PAHs

| | | | | | | | | | | | | | | |
|--------------------------|-----------|--------|-----------|-------|-------|-------|-------|------|-------|-------|-------|--------|--------|---|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 85 J | 140 J | 120 J | 150 J | 35 J | 180 J | 180 J | 270 J | 2400 | 3200 | U |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | U | 27 J | U | 29 J | U | 34 J | 27 J | U | 410 J | 390 J | U |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 120 J | 210 J | 210 J | 230 | 52 J | 280 | 290 J | 360 J | 3300 | 5200 | U |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 43 J | 56 J | 68 J | 58 J | 22 J | 76 J | 80 J | U | 1200 J | 1500 J | U |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 98 J | 190 J | 140 J | 170 J | 36 J | 270 J | 230 J | 380 J | 3700 J | 5000 J | U |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 54 J | 81 J | 68 J | 91 J | U | 98 J | 95 J | 210 J | 1300 J | 1100 J | U |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 120 J | 200 J | 140 J | 210 J | 45 J | 280 | 250 | 310 J | 3500 | 4600 | U |

| | | | | | | | | | | | | | | |
|--|-----------|----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 112.75 | 215.86 | 162.62 | 228.89 | 44.065 | 279.84 | 269.55 | 365.31 | 3655.5 | 4739.6 | U |
|--|-----------|----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)
J - The identification of the analyte is acceptable; the reported value is an estimate.

Notes:

- 1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>
- 2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 21
Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 6
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| Analyte | Units | RSL ¹ | RAL/RML ² | Station ID | WA1624 | WA1626 | WA1702 | WA1702 | WA1702X | WA1704 | WA1712 | WA1714 | WA1716 | WA1716X |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | Sample ID | WA1624SF | WA1626SF | WA1702SF | WA1702SFD | WA1702SFX | WA1704SF | WA1712SF | WA1714SF | WA1716SF | WA1716SFX |
| | | | | Media Code | SF | SF | SF | SF | SF | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/15/12 12:00 | 2/14/12 17:11 | 2/14/12 14:50 | 2/14/12 15:05 | 2/14/12 15:25 | 2/14/12 15:45 | 2/14/12 16:18 | 2/14/12 13:50 | 2/14/12 13:34 | 2/14/12 13:34 |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | | 34 J | 26 J | U | U | 36 J | U | U | 52 J | 32 J | 47 J |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | | U | U | U | U | 120 J | U | U | U | U | U |
| Acenaphthylene | ug/kg dry | NA | NA | | U | U | U | U | U | U | U | U | 24 J | 22J |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | | 180 J | 25 J | U | U | 230 J | 130 J | U | 32 J | 95 J | 75 J |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | | 74 J | 47 J | U | U | 80 J | 120 J | 130 J | 42 J | 90 J | 66 J |
| Benzyl butyl phthalate | ug/kg dry | NA | NA | | U | U | U | U | U | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | | U | 260 | U | U | U | U | U | 450 | U | U |
| Carbazole | ug/kg dry | NA | NA | | 45 J | 23 J | U | U | 150 J | U | U | U | 47 J | 36 J |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | | 45 J | U | U | U | 56 J | U | U | U | 36 J | 22 J |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | | U | 350 | U | U | U | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | | 1100 | 270 | 530 J | 1100 J | 1600 | 1100 J | 750 J | 360 | 690 | 700 |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | | 56 J | U | U | U | 74 J | U | U | U | 28 J | U |
| Phenanthrene | ug/kg dry | NA | NA | | 870 | 150 J | 310 J | 980 J | 1400 | 710 J | 400 J | 170 J | 540 | 370 |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | | 1100 | 270 | 550 J | 1200 J | 1600 | 1100 J | 790 J | 370 | 730 | 800 J |

Carcinogenic PAHs

| | | | | | | | | | | | | | |
|--------------------------|-----------|--------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 380 | 140 J | 230 J | 400 J | 560 | 410 J | 370 J | 180 J | 270 | 350 |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | 46 J | 32 J | U | U | 78 J | U | U | 25 J | 42 J | 42 J |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 530 | 220 J | 330 J | 580 J | 930 | 600 J | 520 J | 300 | 380 | 540 |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 200 J | 66 J | U | U | 320 | 170 J | 170 J | 83 J | 110 J | 190 J |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 510 J | 150 J | 300 J | 530 J | 700 J | 540 J | 450 J | 210 J | 360 J | 390 J |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 140 J | 69 J | U | 310 J | 270 | 180 J | 220 J | 82 J | 160 J | 170 J |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 500 | 170 J | 300 J | 480 J | 670 | 540 J | 500 J | 250 | 370 | 390 |

| | | | | | | | | | | | | | |
|---|-----------|----|-------|--------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 546.5 | 216.73 | 293.3 | 542.48 | 831.87 | 544.24 | 491.2 | 265.28 | 403.47 | 504.29 |
|---|-----------|----|-------|--------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)
J - The identification of the analyte is acceptable; the reported value is an estimate.

Notes:

- 1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>
- 2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.

Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 22

Semi-Volatile Organic Compound Analytical Data Summary, Soils Part 7

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj. ID: 12-0195

| Analyte | Units | RSL ¹ | RAL/RML ² | Station ID | WA1722 | WA1728 | WA1732 | WA1734 | WA1740 |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|---------------|---------------|--------------|---------------|
| | | | | Sample ID | WA1722SF | WA1728SF | WA1732SF | WA1734SF | WA1740SF |
| | | | | Media Code | SF | SF | SF | SF | SF |
| | | | | Sample Date/Time | 2/14/12 12:11 | 2/14/12 11:48 | 2/14/12 10:24 | 2/14/12 9:52 | 2/14/12 11:15 |
| 2-Methylnaphthalene | ug/kg dry | 310,000 | 940,000 | | U | 29 J | U | U | 23 J |
| Acenaphthene | ug/kg dry | 3,400,000 | 14,000,000 | | U | U | 310 J | U | U |
| Acenaphthylene | ug/kg dry | NA | NA | | U | U | U | U | U |
| Anthracene | ug/kg dry | 17,000,000 | 7,000,000 | | 120 J | 43 J | 980 J | U | 24 J |
| Benzo(g,h,i)perylene | ug/kg dry | NA | NA | | 190 J | 66 J | 790 J | 25 J | 33 J |
| Benzyl butyl phthalate | ug/kg dry | NA | NA | | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 35,000 | 3,500,000 | | U | U | U | U | U |
| Carbazole | ug/kg dry | NA | NA | | U | 33 J | 970 J | U | U |
| Dibenzofuran | ug/kg dry | 78,000 | 230,000 | | U | U | 360 J | U | U |
| Di-n-butylphthalate | ug/kg dry | 6,100,000 | 18,000,000 | | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 2,300,000 | 6,900,000 | | 1100 J | 400 | 8900 | 180 J | 220 |
| Fluorene | ug/kg dry | 2,300,000 | 9,400,000 | | U | U | U | U | U |
| Phenanthrene | ug/kg dry | NA | NA | | 560 J | 220 | 7400 | 96 J | 130 J |
| Pyrene | ug/kg dry | 1,700,000 | 7,000,000 | | 1300 | 430 | 7900 | 180 J | 250 |

Carcinogenic PAHs

| | | | | | | | | |
|--------------------------|-----------|--------|-----------|-------|-------|--------|-------|-------|
| Benzo(a)pyrene | ug/kg dry | 15 | 1,500 | 550 J | 190 J | 2000 J | 79 J | 120 J |
| Dibenzo(a,h)anthracene | ug/kg dry | 15 | 1,500 | U | 33 J | 360 J | U | U |
| Benzo(b)fluoranthene | ug/kg dry | 150 | 15,000 | 650 J | 300 | 3500 | 130 J | 190 J |
| Benzo(k)fluoranthene | ug/kg dry | 1,500 | 150,000 | 290 J | 96 J | 1100 J | 41 J | 60 J |
| Benzo(a)anthracene | ug/kg dry | 150 | 15,000 | 630 J | 230 J | 3300 J | 92 J | 130 J |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 150 | 15,000 | 440 J | 120 J | 1200 J | 44 J | 80 J |
| Chrysene | ug/kg dry | 15,000 | 1,500,000 | 560 J | 270 | 3700 | 110 J | 130 J |

| | | | | | | | | |
|---|-----------|----|-------|--------|--------|--------|--------|--------|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 15 | 1,500 | 725.46 | 289.23 | 3174.7 | 106.12 | 160.73 |
|---|-----------|----|-------|--------|--------|--------|--------|--------|

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 23

Semi-Volatile Organic Compound Analytical Data Summary, On-Site Soils

Black Leaf Chemical Superfund Site

Louisville, Kentucky

February 2012

SESD Proj. ID: 12-0195

| Analyte | Units | RSL ¹ | RAL/RML ² | Station ID | BC01 | BC02 | BC02 | BC03 | BC04 |
|-----------------------------|-----------|------------------|----------------------|------------------|---------------|---------------|---------------|---------------|---------------|
| | | | | Sample ID | BC01SF | BC02SF | BC02SB | BC03SF | BC04SF |
| | | | | Media Code | SF | SF | SB | SF | SF |
| | | | | Sample Date/Time | 2/15/12 12:50 | 2/15/12 13:10 | 2/15/12 13:25 | 2/15/12 14:00 | 2/15/12 14:20 |
| 2-Methylnaphthalene | ug/kg dry | NL | 41,000,000 | | 100 J | 58 J | U | U | U |
| Acenaphthene | ug/kg dry | 33,000,000 | 110,000,000 | | U | U | U | U | U |
| Acenaphthylene | ug/kg dry | NL | NL | | 39 J | 37 J | U | U | U |
| Anthracene | ug/kg dry | 170,000,000 | 550,000,000 | | 63 J | 45 J | U | 40 J | U |
| Benzo(g,h,i)perylene | ug/kg dry | NL | NL | | 29 J | 32 J | 310 J | 35 J | U |
| Benzyl butyl phthalate | ug/kg dry | 910,000 | 100,000,000 | | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg dry | 120,000 | 14,000,000 | | U | U | U | 320 | U |
| Carbazole | ug/kg dry | NL | NL | | 27 J | U | U | 46 J | U |
| Dibenzofuran | ug/kg dry | NL | 3,400,000 | | 40 J | 25 J | U | U | U |
| Di-n-butylphthalate | ug/kg dry | NL | NL | | U | U | U | U | U |
| Fluoranthene | ug/kg dry | 22,000,000 | 73,000,000 | | 340 | 260 | 1100 J | 370 | U |
| Fluorene | ug/kg dry | 22,000,000 | 73,000,000 | | U | U | U | U | U |
| Phenanthrene | ug/kg dry | NL | NL | | 210 J | 130 J | 870 J | 310 | 19 J |
| Pyrene | ug/kg dry | 1,700,000 | 55,000,000 | | 400 | 320 | 1300 J | 410 | U |

Carcinogenic PAHs

| | | | | | | | | |
|--------------------------|-----------|---------|------------|-------|-------|-------|-------|---|
| Benzo(a)pyrene | ug/kg dry | 210 | 23,000 | 150 J | 150 J | 570 J | 150 J | U |
| Dibenzo(a,h)anthracene | ug/kg dry | 210 | 23,000 | 30 J | 29 J | U | 26 J | U |
| Benzo(b)fluoranthene | ug/kg dry | 2,100 | 230,000 | 300 J | 280 J | 810 J | 260 | U |
| Benzo(k)fluoranthene | ug/kg dry | 2,100 | 230,000 | 92 J | 82 J | 200 J | 90 J | U |
| Benzo(a)anthracene | ug/kg dry | 2,100 | 230,000 | 210 J | 190 J | 590 J | 180 J | U |
| Indeno (1,2,3-cd) pyrene | ug/kg dry | 2,100 | 230,000 | 110 J | 98 J | 480 J | 99 J | U |
| Chrysene | ug/kg dry | 210,000 | 23,000,000 | 230 J | 190 J | 560 J | 210 | U |

| | | | | | | | | |
|---|-----------|-----|--------|--------|--------|--------|--------|---|
| Benzo(a)pyrene Toxic Equivalent (BAPE) | ug/kg dry | 210 | 23,000 | 243.15 | 236.81 | 760.56 | 231.01 | 0 |
|---|-----------|-----|--------|--------|--------|--------|--------|---|

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (see Complete Data, Appendices for reporting limits)

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

Notes:

1 - EPA Regional Screening Levels: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels: Personal communication, Tim Frederick, Region 4 EPA Technical Services Section

Results in **bold orange** exceed the analytes Regional Screening Level.Results in **bold magenta** exceed both the Regional Screening Level and the Removal Action Level/Removal Management Level

Table 24
Semi-Volatile Organic Compound Analytical Data Summary, Waste Samples
Black Leaf Chemical Superfund Site
Louisville, Kentucky
February 2012
SESD Proj. ID: 12-0195

| | | Sample ID | BC05WA | BC06WA | BC07WA |
|-----------------------------|------------------|------------------|-----------|-----------|-----------|
| | | Location ID | BC05 | BC06 | BC07 |
| | | Matrix | Waste | Waste | Waste |
| | | Collection Date | 2/15/2012 | 2/15/2012 | 2/15/2012 |
| SVOCs (ug/kg) | RSL ¹ | RAL ² | | | |
| 1,1'-Biphenyl | 210000 | 170000000 | 330 U | 1900 U | 1700 U |
| 2,4,5-Trichlorophenol | 62000000 | 210000000 | 1700 U | 10000 U | 8700 U |
| 2,4,6-Trichlorophenol | 160000 | 2100000 | 330 U | 1900 U | 1700 U |
| 2,4-Dichlorophenol | 1800000 | 6200000 | 330 U | 1900 U | 1700 U |
| 2,4-Dimethylphenol | 12000000 | 41000000 | 330 U | 1900 U | 1700 U |
| 2,4-Dinitrophenol | 1200000 | 4100000 | 1700 U | 10000 U | 8700 U |
| 2,4-Dinitrotoluene | 5500 | 610000 | 330 U | 1900 U | 1700 U |
| 2,6-Dinitrotoluene | 620000 | 2100000 | 330 U | 1900 U | 1700 U |
| 2-Chloronaphthalene | NL | NL | 330 U | 1900 U | 1700 U |
| 2-Chlorophenol | 5100 | 17000000 | 330 U | 1900 U | 1700 U |
| 2-Methylnaphthalene | NL | 14000000 | 330 U | 1900 U | 1700 U |
| 2-Methylphenol | NL | NL | 330 U | 1900 U | 1700 U |
| 2-Nitroaniline | 6000000 | 20000000 | 1700 U | 10000 U | 8700 U |
| 2-Nitrophenol | NL | NL | 330 U | 1900 U | 1700 U |
| 3,3'-Dichlorobenzidine | 3800 | 430000 | 670 U | 3900 U | 3400 U |
| 3-Nitroaniline | NL | NL | 1700 U | 10000 U | 8700 U |
| 4,6-Dinitro-2-methylphenol | NL | NL | 1700 U | 10000 U | 8700 U |
| 4-Bromophenyl phenyl ether | NL | NL | 330 U | 1900 U | 1700 U |
| 4-Chloro-3-methylphenol | NL | NL | 330 U | 1900 U | 1700 U |
| 4-Chloroaniline | NL | NL | 330 U | 1900 U | 1700 U |
| 4-Chlorophenyl phenyl ether | NL | NL | 330 U | 1900 U | 1700 U |
| 4-Methylphenol | NL | NL | 330 U | 1900 U | 1700 U |
| 4-Nitroaniline | 86000 | 8200000 | 1700 U | 10000 U | 8700 U |
| 4-Nitrophenol | NL | NL | 1700 U | 10000 U | 8700 U |
| Acenaphthene | 33000000 | 110000000 | 330 U | 1900 U | 1700 U |
| Acenaphthylene | NL | NL | 330 U | 1900 U | 1700 U |
| Acetophenone | 100000000 | 340000000 | 330 U | 1900 U | 1700 U |
| Anthracene | 170000000 | 550000000 | 330 U | 1900 U | 1900 |
| Atrazine | 7500 | 830000 | 330 U | 1900 U | 1700 U |
| Benz(a)anthracene | 2100 | 230000 | 330 U | 3300 | 6400 |
| Benzaldehyde | 100000000 | 340000 | 330 U | 1900 U | 1700 U |
| Benzo(a)pyrene | 210 | 23000 | 330 U | 3200 | 6500 |
| Benzo(b)fluoranthene | 2100 | 230000 | 330 U | 4000 | 7500 |
| Benzo(g,h,i)perylene | NL | NL | 330 U | 2000 | 3300 |
| Benzo(k)fluoranthene | 2100 | 2300000 | 330 U | 2000 | 3300 |
| Bis(2-chloroethoxy)methane | 1800000 | 6200000 | 330 U | 1900 U | 1700 U |
| Bis(2-chloroethyl)ether | 1000 | 110000 | 330 U | 1900 U | 1700 U |
| Bis(2-chloroisopropyl)ether | NL | NL | 330 U | 1900 U | 1700 U |
| Bis(2-ethylhexyl)phthalate | 120000 | 14000000 | 330 U | 1900 U | 1700 U |
| Butyl benzyl phthalate | 910000 | 100000000 | 330 U | 1900 U | 1700 U |
| Caprolactam | 310000000 | 1000000000 | 330 U | 1900 U | 1700 U |
| Carbazole | NL | NL | 330 U | 1900 U | 1700 U |
| Chrysene | 210000 | 23000000 | 330 U | 4600 | 7900 |
| Dibenz(a,h)anthracene | 210 | 23000 | 330 U | 1900 U | 1700 U |
| Dibenzofuran | NL | 3400000 | 330 U | 1900 U | 1700 U |
| Diethyl phthalate | 490000000 | 1600000000 | 330 U | 1900 U | 1700 U |
| Dimethyl phthalate | NL | NL | 330 U | 1900 U | 1700 U |
| Di-n-butyl phthalate | NL | NL | 330 U | 1900 U | 1700 U |
| Di-n-octyl phthalate | NL | NL | 330 U | 1900 U | 1700 U |
| Fluoranthene | 22000000 | 73000000 | 330 U | 9700 | 13000 |
| Fluorene | 22000000 | 73000000 | 330 U | 1900 U | 1700 U |
| Hexachlorobenzene | 1100 | 120000 | 330 U | 1900 U | 1700 U |
| Hexachlorobutadiene | 22000 | 2100000 | 330 U | 1900 U | 1700 U |
| Hexachlorocyclopentadiene | 3700000 | 12000000 | 660 U | 3900 U | 3400 U |
| Hexachloroethane | 43000 | 2100000 | 330 U | 1900 U | 1700 U |
| Indeno(1,2,3-cd)pyrene | 2100 | 230000 | 330 U | 2200 | 3600 |
| Isophorone | 1800000 | 200000000 | 330 U | 1900 U | 1700 U |
| Naphthalene | 18000 | 2000000 | 330 U | 1900 U | 1700 U |
| Nitrobenzene | 24000 | 2700000 | 330 U | 1900 U | 1700 U |
| N-Nitrosodi-n-propylamine | 250 | 27000 | 330 U | 1900 U | 1700 U |
| N-Nitrosodiphenylamine | 350000 | 39000 | 330 U | 1900 U | 1700 U |
| Pentachlorophenol | 2700 | 1000000 | 1700 U | 10000 U | 8700 U |
| Phenanthrene | NL | NL | 330 U | 7500 | 9500 |
| Phenol | 180000000 | 620000000 | 330 U | 1900 U | 1700 U |
| Pyrene | 1700000 | 55000000 | 330 U | 7800 | 11000 |

Data Qualifiers:

U - The analyte was not detected at or above the reporting limit (number listed with "U" qualifier)

NL - Not Listed

Notes:

1 - EPA Regional Screening Level, Industrial Soil: <http://www.epa.gov/region9/superfund/prg/>

2 - EPA Removal Action Levels/Removal Management Levels, On-Site Worker, Soils

Bold Orange - Exceeds EPA RSL, Industrial

Appendix C – Complete Data

- Total Metals – 152 total pages
- Organochlorine Pesticides – 75 total pages
- Semi-Volatile Organic Compounds – 211 total pages
- Contract Laboratory Data, Waste Samples, Organochlorine Pesticides and Semi-Volatile Organic Compounds –
 - Memorandum – 14 total pages
 - Data Report – 22 total pages



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

March 20, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0195, Black Leaf Chemicals
Superfund Emergency Response and Removal

FROM: Mike Wasko
ASB Inorganic Chemistry Section, Acting Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Don Hunter

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 accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Physical Properties (PHYSP)

Physical Properties

EPA 200.2

Total Metals (TMTL)

Total Metals

EPA 200.8



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

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



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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0195, Black Leaf Chemicals

| Sample ID | Laboratory ID | Matrix | Date Collected | Date Received |
|-----------|---------------|-----------------|----------------|---------------|
| BC01SF | E120710-01 | Surface Soil | 2/15/12 12:50 | 2/16/12 17:22 |
| BC02SB | E120710-02 | Subsurface Soil | 2/15/12 13:25 | 2/16/12 17:22 |
| BC02SF | E120710-03 | Surface Soil | 2/15/12 13:10 | 2/16/12 17:22 |
| BC03SF | E120710-04 | Surface Soil | 2/15/12 14:00 | 2/16/12 17:22 |
| BC04SF | E120710-05 | Surface Soil | 2/15/12 14:20 | 2/16/12 17:22 |
| BC05WA | E120710-06 | Waste | 2/15/12 14:50 | 2/16/12 17:22 |
| BC06WA | E120710-07 | Waste | 2/15/12 14:55 | 2/16/12 17:22 |
| BC07WA | E120710-08 | Waste | 2/15/12 15:00 | 2/16/12 17:22 |
| DH1385SF | E120710-09 | Surface Soil | 2/14/12 10:30 | 2/16/12 17:22 |
| DH1389SF | E120710-10 | Surface Soil | 2/14/12 10:00 | 2/16/12 17:22 |
| SF1338SF | E120710-11 | Surface Soil | 2/14/12 11:35 | 2/16/12 17:22 |
| SF1340SF | E120710-12 | Surface Soil | 2/14/12 09:50 | 2/16/12 17:22 |
| SF1340SFD | E120710-13 | Surface Soil | 2/14/12 10:35 | 2/16/12 17:22 |
| SL1700SF | E120710-14 | Surface Soil | 2/15/12 10:10 | 2/16/12 17:22 |
| SL1701SF | E120710-15 | Surface Soil | 2/15/12 08:55 | 2/16/12 17:22 |
| SL1701SFS | E120710-16 | Surface Soil | 2/15/12 08:55 | 2/16/12 17:22 |
| SL1701SFX | E120710-17 | Surface Soil | 2/15/12 09:18 | 2/16/12 17:22 |
| SL1702SF | E120710-18 | Surface Soil | 2/15/12 10:33 | 2/16/12 17:22 |
| SL1703SF | E120710-19 | Surface Soil | 2/15/12 09:38 | 2/16/12 17:22 |
| SL1708SF | E120710-20 | Surface Soil | 2/15/12 10:50 | 2/16/12 17:22 |
| SL1710SF | E120710-21 | Surface Soil | 2/15/12 12:17 | 2/16/12 17:22 |
| SL1712SF | E120710-22 | Surface Soil | 2/15/12 12:40 | 2/16/12 17:22 |
| SL1714SF | E120710-23 | Surface Soil | 2/15/12 13:00 | 2/16/12 17:22 |
| SL1716SF | E120710-24 | Surface Soil | 2/15/12 13:17 | 2/16/12 17:22 |
| SL1718SF | E120710-25 | Surface Soil | 2/15/12 13:33 | 2/16/12 17:22 |
| SL1720SF | E120710-26 | Surface Soil | 2/15/12 13:50 | 2/16/12 17:22 |
| SL1722SF | E120710-27 | Surface Soil | 2/15/12 10:15 | 2/16/12 17:22 |
| SL1724SF | E120710-28 | Surface Soil | 2/15/12 09:55 | 2/16/12 17:22 |
| SL1726SF | E120710-29 | Surface Soil | 2/15/12 09:20 | 2/16/12 17:22 |
| SL1726SFS | E120710-30 | Surface Soil | 2/15/12 09:20 | 2/16/12 17:22 |
| SL1728SF | E120710-31 | Surface Soil | 2/15/12 09:00 | 2/16/12 17:22 |
| SL1732SF | E120710-32 | Surface Soil | 2/14/12 17:10 | 2/16/12 17:22 |
| SL1734SF | E120710-33 | Surface Soil | 2/14/12 16:45 | 2/16/12 17:22 |
| SL1736SF | E120710-34 | Surface Soil | 2/14/12 16:15 | 2/16/12 17:22 |



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| | | | | |
|-----------|------------|--------------|---------------|---------------|
| SL1740SF | E120710-35 | Surface Soil | 2/14/12 14:30 | 2/16/12 17:22 |
| SL1740SFD | E120710-36 | Surface Soil | 2/14/12 14:40 | 2/16/12 17:22 |
| SL1742SF | E120710-37 | Surface Soil | 2/14/12 14:05 | 2/16/12 17:22 |
| SL1742SFX | E120710-38 | Surface Soil | 2/14/12 13:45 | 2/16/12 17:22 |
| SL1748SF | E120710-39 | Surface Soil | 2/14/12 12:15 | 2/16/12 17:22 |
| SL1750SF | E120710-40 | Surface Soil | 2/14/12 12:00 | 2/16/12 17:22 |
| SL1752SF | E120710-41 | Surface Soil | 2/14/12 11:00 | 2/16/12 17:22 |
| WA1518SF | E120710-42 | Surface Soil | 2/14/12 13:10 | 2/16/12 17:22 |
| WA1518SFX | E120710-43 | Surface Soil | 2/14/12 13:35 | 2/16/12 17:22 |
| WA1520SF | E120710-44 | Surface Soil | 2/14/12 14:05 | 2/16/12 17:22 |
| WA1526SF | E120710-45 | Surface Soil | 2/14/12 14:35 | 2/16/12 17:22 |
| WA1534SF | E120710-46 | Surface Soil | 2/15/12 08:55 | 2/16/12 17:22 |
| WA1602SF | E120710-47 | Surface Soil | 2/14/12 15:40 | 2/16/12 17:22 |
| WA1606SF | E120710-48 | Surface Soil | 2/14/12 16:25 | 2/16/12 17:22 |
| WA1608SF | E120710-49 | Surface Soil | 2/14/12 16:50 | 2/16/12 17:22 |
| WA1610SF | E120710-50 | Surface Soil | 2/15/12 10:00 | 2/16/12 17:22 |
| WA1610SFX | E120710-51 | Surface Soil | 2/15/12 10:00 | 2/16/12 17:22 |
| WA1614SF | E120710-52 | Surface Soil | 2/14/12 17:15 | 2/16/12 17:22 |
| WA1616SF | E120710-53 | Surface Soil | 2/15/12 11:00 | 2/16/12 17:22 |
| WA1618SF | E120710-54 | Surface Soil | 2/15/12 10:40 | 2/16/12 17:22 |
| WA1620SF | E120710-55 | Surface Soil | 2/15/12 11:30 | 2/16/12 17:22 |
| WA1620SFS | E120710-56 | Surface Soil | 2/15/12 11:35 | 2/16/12 17:22 |
| WA1624SF | E120710-57 | Surface Soil | 2/15/12 12:00 | 2/16/12 17:22 |
| WA1626SF | E120710-58 | Surface Soil | 2/14/12 17:11 | 2/16/12 17:22 |
| WA1702SF | E120710-59 | Surface Soil | 2/14/12 14:50 | 2/16/12 17:22 |
| WA1702SFD | E120710-60 | Surface Soil | 2/14/12 15:05 | 2/16/12 17:22 |
| WA1702SFX | E120710-61 | Surface Soil | 2/14/12 15:25 | 2/16/12 17:22 |
| WA1704SF | E120710-62 | Surface Soil | 2/14/12 15:45 | 2/16/12 17:22 |
| WA1712SF | E120710-63 | Surface Soil | 2/14/12 16:18 | 2/16/12 17:22 |
| WA1714SF | E120710-64 | Surface Soil | 2/14/12 13:50 | 2/16/12 17:22 |
| WA1716SF | E120710-65 | Surface Soil | 2/14/12 13:34 | 2/16/12 17:22 |
| WA1716SFX | E120710-66 | Surface Soil | 2/14/12 13:34 | 2/16/12 17:22 |
| WA1722SF | E120710-67 | Surface Soil | 2/14/12 12:11 | 2/16/12 17:22 |
| WA1728SF | E120710-68 | Surface Soil | 2/14/12 11:48 | 2/16/12 17:22 |
| WA1732SF | E120710-69 | Surface Soil | 2/14/12 10:24 | 2/16/12 17:22 |
| WA1734SF | E120710-70 | Surface Soil | 2/14/12 09:52 | 2/16/12 17:22 |
| WA1740SF | E120710-71 | Surface Soil | 2/14/12 11:15 | 2/16/12 17:22 |



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DATA QUALIFIER DEFINITIONS

| | |
|------|---|
| 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. |
| QM-1 | Matrix Spike Recovery less than 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. |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC01SF

Lab ID: E120710-01

Station ID: BC01

Matrix: Surface Soil

Date Collected: 2/15/12 12:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 4.4 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 11:51 | EPA 200.8 |
| 7439-92-1 | Lead | 10 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 11:51 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC01SF

Lab ID: E120710-01

Station ID: BC01

Matrix: Surface Soil

Date Collected: 2/15/12 12:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 80 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC02SB

Lab ID: E120710-02

Station ID: BC02

Matrix: Subsurface Soil

Date Collected: 2/15/12 13:25

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.8 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 11:56 | EPA 200.8 |
| 7439-92-1 | Lead | 170 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 12:01 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC02SB

Lab ID: E120710-02

Station ID: BC02

Matrix: Subsurface Soil

Date Collected: 2/15/12 13:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 84 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC02SF

Lab ID: E120710-03

Station ID: BC02

Matrix: Surface Soil

Date Collected: 2/15/12 13:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:06 | EPA 200.8 |
| 7439-92-1 | Lead | 140 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 12:10 | EPA 200.8 |



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Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC02SF

Lab ID: E120710-03

Station ID: BC02

Matrix: Surface Soil

Date Collected: 2/15/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 83 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC03SF

Lab ID: E120710-04

Station ID: BC03

Matrix: Surface Soil

Date Collected: 2/15/12 14:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 1.7 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:15 | EPA 200.8 |
| 7439-92-1 | Lead | 7.6 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:15 | EPA 200.8 |



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Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC03SF

Lab ID: E120710-04

Station ID: BC03

Matrix: Surface Soil

Date Collected: 2/15/12 14:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 93 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC04SF

Lab ID: E120710-05

Station ID: BC04

Matrix: Surface Soil

Date Collected: 2/15/12 14:20

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 0.83 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:30 | EPA 200.8 |
| 7439-92-1 | Lead | 2.7 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:30 | EPA 200.8 |



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Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC04SF

Lab ID: E120710-05

Station ID: BC04

Matrix: Surface Soil

Date Collected: 2/15/12 14:20

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 94 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC05WA

Lab ID: E120710-06

Station ID: BC05

Matrix: Waste

Date Collected: 2/15/12 14:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 0.19 | U | mg/kg | 0.19 | 3/09/12 13:31 | 3/14/12 15:14 | EPA 200.8 |
| 7439-92-1 | Lead | 1.6 | | mg/kg | 0.19 | 3/09/12 13:31 | 3/14/12 15:14 | EPA 200.8 |



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Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC06WA

Lab ID: E120710-07

Station ID: BC06

Matrix: Waste

Date Collected: 2/15/12 14:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg | 0.20 | 3/09/12 13:31 | 3/14/12 15:43 | EPA 200.8 |
| 7439-92-1 | Lead | 3100 | | mg/kg | 50 | 3/09/12 13:31 | 3/14/12 15:19 | EPA 200.8 |



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Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: BC07WA

Lab ID: E120710-08

Station ID: BC07

Matrix: Waste

Date Collected: 2/15/12 15:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 46 | | mg/kg | 0.50 | 3/09/12 13:31 | 3/14/12 16:03 | EPA 200.8 |
| 7439-92-1 | Lead | 450 | | mg/kg | 5.0 | 3/09/12 13:31 | 3/14/12 16:08 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: DH1385SF

Lab ID: E120710-09

Station ID: DH1385

Matrix: Surface Soil

Date Collected: 2/14/12 10:30

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 15 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:35 | EPA 200.8 |
| 7439-92-1 | Lead | 140 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 12:40 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: DH1385SF

Lab ID: E120710-09

Station ID: DH1385

Matrix: Surface Soil

Date Collected: 2/14/12 10:30

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: DH1389SF

Lab ID: E120710-10

Station ID: DH1389

Matrix: Surface Soil

Date Collected: 2/14/12 10:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 11 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:45 | EPA 200.8 |
| 7439-92-1 | Lead | 240 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 12:50 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: DH1389SF

Lab ID: E120710-10

Station ID: DH1389

Matrix: Surface Soil

Date Collected: 2/14/12 10:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SF1338SF

Lab ID: E120710-11

Station ID: SF1338

Matrix: Surface Soil

Date Collected: 2/14/12 11:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.9 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 12:55 | EPA 200.8 |
| 7439-92-1 | Lead | 250 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 13:00 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SF1338SF

Lab ID: E120710-11

Station ID: SF1338

Matrix: Surface Soil

Date Collected: 2/14/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 74 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SF1340SF

Lab ID: E120710-12

Station ID: SF1340

Matrix: Surface Soil

Date Collected: 2/14/12 9:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.1 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 13:24 | EPA 200.8 |
| 7439-92-1 | Lead | 110 | | mg/kg dry | 1.0 | 2/28/12 14:22 | 3/09/12 13:29 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SF1340SF

Lab ID: E120710-12

Station ID: SF1340

Matrix: Surface Soil

Date Collected: 2/14/12 9:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 76 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SF1340SFD

Lab ID: E120710-13

Station ID: SF1340

Matrix: Surface Soil

Date Collected: 2/14/12 10:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.5 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 13:34 | EPA 200.8 |
| 7439-92-1 | Lead | 120 | | mg/kg dry | 1.0 | 2/28/12 14:22 | 3/09/12 13:39 | EPA 200.8 |



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SF1340SFD

Lab ID: E120710-13

Station ID: SF1340

Matrix: Surface Soil

Date Collected: 2/14/12 10:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 74 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1700SF

Lab ID: E120710-14

Station ID: SL1700

Matrix: Surface Soil

Date Collected: 2/15/12 10:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.2 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 13:44 | EPA 200.8 |
| 7439-92-1 | Lead | 120 | | mg/kg dry | 1.0 | 2/28/12 14:22 | 3/09/12 13:49 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1700SF

Lab ID: E120710-14

Station ID: SL1700

Matrix: Surface Soil

Date Collected: 2/15/12 10:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 79 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1701SF

Lab ID: E120710-15

Station ID: SL1701

Matrix: Surface Soil

Date Collected: 2/15/12 8:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.3 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 13:54 | EPA 200.8 |
| 7439-92-1 | Lead | 130 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 13:59 | EPA 200.8 |



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1701SF

Lab ID: E120710-15

Station ID: SL1701

Matrix: Surface Soil

Date Collected: 2/15/12 8:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 80 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1701SFS

Lab ID: E120710-16

Station ID: SL1701

Matrix: Surface Soil

Date Collected: 2/15/12 8:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.4 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 14:03 | EPA 200.8 |
| 7439-92-1 | Lead | 130 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 14:08 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1701SFS

Lab ID: E120710-16

Station ID: SL1701

Matrix: Surface Soil

Date Collected: 2/15/12 8:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 80 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1701SFX

Lab ID: E120710-17

Station ID: SL1701X

Matrix: Surface Soil

Date Collected: 2/15/12 9:18

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 14:23 | EPA 200.8 |
| 7439-92-1 | Lead | 140 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 14:28 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1701SFX

Lab ID: E120710-17

Station ID: SL1701X

Matrix: Surface Soil

Date Collected: 2/15/12 9:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 78 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1702SF

Lab ID: E120710-18

Station ID: SL1702

Matrix: Surface Soil

Date Collected: 2/15/12 10:33

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.1 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 14:33 | EPA 200.8 |
| 7439-92-1 | Lead | 100 | | mg/kg dry | 0.99 | 2/28/12 14:22 | 3/09/12 14:38 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1702SF

Lab ID: E120710-18

Station ID: SL1702

Matrix: Surface Soil

Date Collected: 2/15/12 10:33

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1703SF

Lab ID: E120710-19

Station ID: SL1703

Matrix: Surface Soil

Date Collected: 2/15/12 9:38

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 14:43 | EPA 200.8 |
| 7439-92-1 | Lead | 180 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 14:48 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1703SF

Lab ID: E120710-19

Station ID: SL1703

Matrix: Surface Soil

Date Collected: 2/15/12 9:38

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 77 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1708SF

Lab ID: E120710-20

Station ID: SL1708

Matrix: Surface Soil

Date Collected: 2/15/12 10:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 6.7 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 14:53 | EPA 200.8 |
| 7439-92-1 | Lead | 240 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 14:58 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1708SF

Lab ID: E120710-20

Station ID: SL1708

Matrix: Surface Soil

Date Collected: 2/15/12 10:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1710SF

Lab ID: E120710-21

Station ID: SL1710

Matrix: Surface Soil

Date Collected: 2/15/12 12:17

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.4 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 15:02 | EPA 200.8 |
| 7439-92-1 | Lead | 260 | J, QM-1 | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 15:07 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1710SF

Lab ID: E120710-21

Station ID: SL1710

Matrix: Surface Soil

Date Collected: 2/15/12 12:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 80 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1712SF

Lab ID: E120710-22

Station ID: SL1712

Matrix: Surface Soil

Date Collected: 2/15/12 12:40

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.2 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 15:32 | EPA 200.8 |
| 7439-92-1 | Lead | 230 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 15:37 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1712SF

Lab ID: E120710-22

Station ID: SL1712

Matrix: Surface Soil

Date Collected: 2/15/12 12:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 78 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1714SF

Lab ID: E120710-23

Station ID: SL1714

Matrix: Surface Soil

Date Collected: 2/15/12 13:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.3 | | mg/kg dry | 0.20 | 2/28/12 14:22 | 3/09/12 15:42 | EPA 200.8 |
| 7439-92-1 | Lead | 260 | | mg/kg dry | 2.5 | 2/28/12 14:22 | 3/09/12 15:47 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1714SF

Lab ID: E120710-23

Station ID: SL1714

Matrix: Surface Soil

Date Collected: 2/15/12 13:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 76 | | % | 0.0 | 2/24/12 15:02 | 2/27/12 15:35 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1716SF

Lab ID: E120710-24

Station ID: SL1716

Matrix: Surface Soil

Date Collected: 2/15/12 13:17

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.8 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 12:54 | EPA 200.8 |
| 7439-92-1 | Lead | 270 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 12:59 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1716SF

Lab ID: E120710-24

Station ID: SL1716

Matrix: Surface Soil

Date Collected: 2/15/12 13:17

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1718SF

Lab ID: E120710-25

Station ID: SL1718

Matrix: Surface Soil

Date Collected: 2/15/12 13:33

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 13:14 | EPA 200.8 |
| 7439-92-1 | Lead | 250 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 13:19 | EPA 200.8 |



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1718SF

Lab ID: E120710-25

Station ID: SL1718

Matrix: Surface Soil

Date Collected: 2/15/12 13:33

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1720SF

Lab ID: E120710-26

Station ID: SL1720

Matrix: Surface Soil

Date Collected: 2/15/12 13:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.2 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 13:34 | EPA 200.8 |
| 7439-92-1 | Lead | 190 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 13:38 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1720SF

Lab ID: E120710-26

Station ID: SL1720

Matrix: Surface Soil

Date Collected: 2/15/12 13:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1722SF

Lab ID: E120710-27

Station ID: SL1722

Matrix: Surface Soil

Date Collected: 2/15/12 10:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.5 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 13:43 | EPA 200.8 |
| 7439-92-1 | Lead | 260 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 13:48 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1722SF

Lab ID: E120710-27

Station ID: SL1722

Matrix: Surface Soil

Date Collected: 2/15/12 10:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 80 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1724SF

Lab ID: E120710-28

Station ID: SL1724

Matrix: Surface Soil

Date Collected: 2/15/12 9:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 13:53 | EPA 200.8 |
| 7439-92-1 | Lead | 320 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 13:58 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1724SF

Lab ID: E120710-28

Station ID: SL1724

Matrix: Surface Soil

Date Collected: 2/15/12 9:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 80 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1726SF

Lab ID: E120710-29

Station ID: SL1726

Matrix: Surface Soil

Date Collected: 2/15/12 9:20

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 14:03 | EPA 200.8 |
| 7439-92-1 | Lead | 330 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 14:08 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1726SF

Lab ID: E120710-29

Station ID: SL1726

Matrix: Surface Soil

Date Collected: 2/15/12 9:20

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1726SFS

Lab ID: E120710-30

Station ID: SL1726

Matrix: Surface Soil

Date Collected: 2/15/12 9:20

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.6 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 14:13 | EPA 200.8 |
| 7439-92-1 | Lead | 310 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 14:18 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1726SFS

Lab ID: E120710-30

Station ID: SL1726

Matrix: Surface Soil

Date Collected: 2/15/12 9:20

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1728SF

Lab ID: E120710-31

Station ID: SL1728

Matrix: Surface Soil

Date Collected: 2/15/12 9:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.5 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 14:33 | EPA 200.8 |
| 7439-92-1 | Lead | 160 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 14:38 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1728SF

Lab ID: E120710-31

Station ID: SL1728

Matrix: Surface Soil

Date Collected: 2/15/12 9:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1732SF

Lab ID: E120710-32

Station ID: SL1732

Matrix: Surface Soil

Date Collected: 2/14/12 17:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 14:43 | EPA 200.8 |
| 7439-92-1 | Lead | 180 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 14:48 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1732SF

Lab ID: E120710-32

Station ID: SL1732

Matrix: Surface Soil

Date Collected: 2/14/12 17:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1734SF

Lab ID: E120710-33

Station ID: SL1734

Matrix: Surface Soil

Date Collected: 2/14/12 16:45

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 6.4 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 14:53 | EPA 200.8 |
| 7439-92-1 | Lead | 170 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 14:58 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1734SF

Lab ID: E120710-33

Station ID: SL1734

Matrix: Surface Soil

Date Collected: 2/14/12 16:45

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 83 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1736SF

Lab ID: E120710-34

Station ID: SL1736

Matrix: Surface Soil

Date Collected: 2/14/12 16:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.4 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 15:02 | EPA 200.8 |
| 7439-92-1 | Lead | 120 | | mg/kg dry | 1.0 | 3/08/12 10:28 | 3/12/12 15:07 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1736SF

Lab ID: E120710-34

Station ID: SL1736

Matrix: Surface Soil

Date Collected: 2/14/12 16:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1740SF

Lab ID: E120710-35

Station ID: SL1740

Matrix: Surface Soil

Date Collected: 2/14/12 14:30

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.0 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 15:34 | EPA 200.8 |
| 7439-92-1 | Lead | 76 | | mg/kg dry | 0.99 | 3/08/12 10:28 | 3/12/12 15:39 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1740SF

Lab ID: E120710-35

Station ID: SL1740

Matrix: Surface Soil

Date Collected: 2/14/12 14:30

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 81 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1740SFD

Lab ID: E120710-36

Station ID: SL1740

Matrix: Surface Soil

Date Collected: 2/14/12 14:40

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.5 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 15:44 | EPA 200.8 |
| 7439-92-1 | Lead | 92 | | mg/kg dry | 0.99 | 3/08/12 10:28 | 3/12/12 15:49 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1740SFD

Lab ID: E120710-36

Station ID: SL1740

Matrix: Surface Soil

Date Collected: 2/14/12 14:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1742SF

Lab ID: E120710-37

Station ID: SL1742

Matrix: Surface Soil

Date Collected: 2/14/12 14:05

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.3 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 15:54 | EPA 200.8 |
| 7439-92-1 | Lead | 230 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 15:59 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1742SF

Lab ID: E120710-37

Station ID: SL1742

Matrix: Surface Soil

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 80 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1742SFX

Lab ID: E120710-38

Station ID: SL1742X

Matrix: Surface Soil

Date Collected: 2/14/12 13:45

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.2 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 16:04 | EPA 200.8 |
| 7439-92-1 | Lead | 320 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 16:08 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1742SFX

Lab ID: E120710-38

Station ID: SL1742X

Matrix: Surface Soil

Date Collected: 2/14/12 13:45

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 81 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1748SF

Lab ID: E120710-39

Station ID: SL1748

Matrix: Surface Soil

Date Collected: 2/14/12 12:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 50 | | mg/kg dry | 1.0 | 3/08/12 10:28 | 3/12/12 16:13 | EPA 200.8 |
| 7439-92-1 | Lead | 420 | | mg/kg dry | 5.0 | 3/08/12 10:28 | 3/12/12 16:18 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1748SF

Lab ID: E120710-39

Station ID: SL1748

Matrix: Surface Soil

Date Collected: 2/14/12 12:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1750SF

Lab ID: E120710-40

Station ID: SL1750

Matrix: Surface Soil

Date Collected: 2/14/12 12:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 16:33 | EPA 200.8 |
| 7439-92-1 | Lead | 360 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 16:38 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1750SF

Lab ID: E120710-40

Station ID: SL1750

Matrix: Surface Soil

Date Collected: 2/14/12 12:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 75 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1752SF

Lab ID: E120710-41

Station ID: SL1752

Matrix: Surface Soil

Date Collected: 2/14/12 11:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.8 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 16:43 | EPA 200.8 |
| 7439-92-1 | Lead | 410 | | mg/kg dry | 4.9 | 3/08/12 10:28 | 3/12/12 16:48 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: SL1752SF

Lab ID: E120710-41

Station ID: SL1752

Matrix: Surface Soil

Date Collected: 2/14/12 11:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1518SF

Lab ID: E120710-42

Station ID: WA1518

Matrix: Surface Soil

Date Collected: 2/14/12 13:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 10 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 16:53 | EPA 200.8 |
| 7439-92-1 | Lead | 330 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 16:58 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1518SF

Lab ID: E120710-42

Station ID: WA1518

Matrix: Surface Soil

Date Collected: 2/14/12 13:10

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 76 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1518SFX

Lab ID: E120710-43

Station ID: WA1518X

Matrix: Surface Soil

Date Collected: 2/14/12 13:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:28 | 3/12/12 17:03 | EPA 200.8 |
| 7439-92-1 | Lead | 270 | | mg/kg dry | 2.5 | 3/08/12 10:28 | 3/12/12 17:08 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1518SFX

Lab ID: E120710-43

Station ID: WA1518X

Matrix: Surface Soil

Date Collected: 2/14/12 13:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/01/12 15:10 | 3/02/12 13:03 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1520SF

Lab ID: E120710-44

Station ID: WA1520

Matrix: Surface Soil

Date Collected: 2/14/12 14:05

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 6.5 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 11:13 | EPA 200.8 |
| 7439-92-1 | Lead | 160 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 11:18 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1520SF

Lab ID: E120710-44

Station ID: WA1520

Matrix: Surface Soil

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 79 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1526SF

Lab ID: E120710-45

Station ID: WA1526

Matrix: Surface Soil

Date Collected: 2/14/12 14:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.3 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 11:32 | EPA 200.8 |
| 7439-92-1 | Lead | 290 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 11:37 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1526SF

Lab ID: E120710-45

Station ID: WA1526

Matrix: Surface Soil

Date Collected: 2/14/12 14:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 75 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1534SF

Lab ID: E120710-46

Station ID: WA1534

Matrix: Surface Soil

Date Collected: 2/15/12 8:55

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.1 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 11:52 | EPA 200.8 |
| 7439-92-1 | Lead | 210 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 11:57 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1534SF

Lab ID: E120710-46

Station ID: WA1534

Matrix: Surface Soil

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 75 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1602SF

Lab ID: E120710-47

Station ID: WA1602

Matrix: Surface Soil

Date Collected: 2/14/12 15:40

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.5 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 12:02 | EPA 200.8 |
| 7439-92-1 | Lead | 240 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 12:07 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1602SF

Lab ID: E120710-47

Station ID: WA1602

Matrix: Surface Soil

Date Collected: 2/14/12 15:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 74 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1606SF

Lab ID: E120710-48

Station ID: WA1606

Matrix: Surface Soil

Date Collected: 2/14/12 16:25

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 12:12 | EPA 200.8 |
| 7439-92-1 | Lead | 150 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 12:17 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1606SF

Lab ID: E120710-48

Station ID: WA1606

Matrix: Surface Soil

Date Collected: 2/14/12 16:25

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1608SF

Lab ID: E120710-49

Station ID: WA1608

Matrix: Surface Soil

Date Collected: 2/14/12 16:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 11 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 12:22 | EPA 200.8 |
| 7439-92-1 | Lead | 220 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 12:27 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1608SF

Lab ID: E120710-49

Station ID: WA1608

Matrix: Surface Soil

Date Collected: 2/14/12 16:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 76 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1610SF

Lab ID: E120710-50

Station ID: WA1610

Matrix: Surface Soil

Date Collected: 2/15/12 10:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.1 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 12:32 | EPA 200.8 |
| 7439-92-1 | Lead | 480 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 12:36 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1610SF

Lab ID: E120710-50

Station ID: WA1610

Matrix: Surface Soil

Date Collected: 2/15/12 10:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 73 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1610SFX

Lab ID: E120710-51

Station ID: WA1610X

Matrix: Surface Soil

Date Collected: 2/15/12 10:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 12:51 | EPA 200.8 |
| 7439-92-1 | Lead | 220 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 12:56 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1610SFX

Lab ID: E120710-51

Station ID: WA1610X

Matrix: Surface Soil

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 80 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1614SF

Lab ID: E120710-52

Station ID: WA1614

Matrix: Surface Soil

Date Collected: 2/14/12 17:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 11 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 13:01 | EPA 200.8 |
| 7439-92-1 | Lead | 350 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 13:06 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1614SF

Lab ID: E120710-52

Station ID: WA1614

Matrix: Surface Soil

Date Collected: 2/14/12 17:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 76 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1616SF

Lab ID: E120710-53

Station ID: WA1616

Matrix: Surface Soil

Date Collected: 2/15/12 11:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.4 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 13:11 | EPA 200.8 |
| 7439-92-1 | Lead | 490 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 13:16 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1616SF

Lab ID: E120710-53

Station ID: WA1616

Matrix: Surface Soil

Date Collected: 2/15/12 11:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 76 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1618SF

Lab ID: E120710-54

Station ID: WA1618

Matrix: Surface Soil

Date Collected: 2/15/12 10:40

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 12 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 13:21 | EPA 200.8 |
| 7439-92-1 | Lead | 390 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 13:26 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1618SF

Lab ID: E120710-54

Station ID: WA1618

Matrix: Surface Soil

Date Collected: 2/15/12 10:40

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1620SF

Lab ID: E120710-55

Station ID: WA1620

Matrix: Surface Soil

Date Collected: 2/15/12 11:30

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.5 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 13:51 | EPA 200.8 |
| 7439-92-1 | Lead | 590 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 13:56 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1620SF

Lab ID: E120710-55

Station ID: WA1620

Matrix: Surface Soil

Date Collected: 2/15/12 11:30

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 73 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1620SFS

Lab ID: E120710-56

Station ID: WA1620

Matrix: Surface Soil

Date Collected: 2/15/12 11:35

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.1 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 14:00 | EPA 200.8 |
| 7439-92-1 | Lead | 520 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 14:05 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1620SFS

Lab ID: E120710-56

Station ID: WA1620

Matrix: Surface Soil

Date Collected: 2/15/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 75 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1624SF

Lab ID: E120710-57

Station ID: WA1624

Matrix: Surface Soil

Date Collected: 2/15/12 12:00

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.4 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 14:10 | EPA 200.8 |
| 7439-92-1 | Lead | 460 | | mg/kg dry | 4.9 | 3/08/12 10:33 | 3/13/12 14:15 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1624SF

Lab ID: E120710-57

Station ID: WA1624

Matrix: Surface Soil

Date Collected: 2/15/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1626SF

Lab ID: E120710-58

Station ID: WA1626

Matrix: Surface Soil

Date Collected: 2/14/12 17:11

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.5 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 14:20 | EPA 200.8 |
| 7439-92-1 | Lead | 370 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 14:25 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1626SF

Lab ID: E120710-58

Station ID: WA1626

Matrix: Surface Soil

Date Collected: 2/14/12 17:11

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1702SF

Lab ID: E120710-59

Station ID: WA1702

Matrix: Surface Soil

Date Collected: 2/14/12 14:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.4 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 14:30 | EPA 200.8 |
| 7439-92-1 | Lead | 210 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 14:35 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1702SF

Lab ID: E120710-59

Station ID: WA1702

Matrix: Surface Soil

Date Collected: 2/14/12 14:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 80 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1702SFD

Lab ID: E120710-60

Station ID: WA1702

Matrix: Surface Soil

Date Collected: 2/14/12 15:05

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.8 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 14:50 | EPA 200.8 |
| 7439-92-1 | Lead | 360 | | mg/kg dry | 4.9 | 3/08/12 10:33 | 3/13/12 14:55 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1702SFD

Lab ID: E120710-60

Station ID: WA1702

Matrix: Surface Soil

Date Collected: 2/14/12 15:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 79 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1702SFX

Lab ID: E120710-61

Station ID: WA1702X

Matrix: Surface Soil

Date Collected: 2/14/12 15:25

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.8 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 15:00 | EPA 200.8 |
| 7439-92-1 | Lead | 370 | | mg/kg dry | 5.0 | 3/08/12 10:33 | 3/13/12 15:05 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1702SFX

Lab ID: E120710-61

Station ID: WA1702X

Matrix: Surface Soil

Date Collected: 2/14/12 15:25

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 81 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1704SF

Lab ID: E120710-62

Station ID: WA1704

Matrix: Surface Soil

Date Collected: 2/14/12 15:45

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.8 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 15:10 | EPA 200.8 |
| 7439-92-1 | Lead | 170 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 15:15 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1704SF

Lab ID: E120710-62

Station ID: WA1704

Matrix: Surface Soil

Date Collected: 2/14/12 15:45

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 81 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1712SF

Lab ID: E120710-63

Station ID: WA1712

Matrix: Surface Soil

Date Collected: 2/14/12 16:18

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.4 | | mg/kg dry | 0.20 | 3/08/12 10:33 | 3/13/12 15:20 | EPA 200.8 |
| 7439-92-1 | Lead | 300 | | mg/kg dry | 2.5 | 3/08/12 10:33 | 3/13/12 15:25 | EPA 200.8 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1712SF

Lab ID: E120710-63

Station ID: WA1712

Matrix: Surface Soil

Date Collected: 2/14/12 16:18

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/05/12 10:07 | 3/07/12 11:08 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1714SF

Lab ID: E120710-64

Station ID: WA1714

Matrix: Surface Soil

Date Collected: 2/14/12 13:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.0 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 13:10 | EPA 200.8 |
| 7439-92-1 | Lead | 190 | | mg/kg dry | 2.5 | 3/09/12 13:27 | 3/14/12 13:15 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1714SF

Lab ID: E120710-64

Station ID: WA1714

Matrix: Surface Soil

Date Collected: 2/14/12 13:50

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1716SF

Lab ID: E120710-65

Station ID: WA1716

Matrix: Surface Soil

Date Collected: 2/14/12 13:34

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 7.1 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 13:20 | EPA 200.8 |
| 7439-92-1 | Lead | 240 | | mg/kg dry | 2.5 | 3/09/12 13:27 | 3/14/12 13:25 | EPA 200.8 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1716SF

Lab ID: E120710-65

Station ID: WA1716

Matrix: Surface Soil

Date Collected: 2/14/12 13:34

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1716SFX

Lab ID: E120710-66

Station ID: WA1716X

Matrix: Surface Soil

Date Collected: 2/14/12 13:34

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 6.7 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 13:30 | EPA 200.8 |
| 7439-92-1 | Lead | 180 | | mg/kg dry | 2.5 | 3/09/12 13:27 | 3/14/12 13:35 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1716SFX

Lab ID: E120710-66

Station ID: WA1716X

Matrix: Surface Soil

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1722SF

Lab ID: E120710-67

Station ID: WA1722

Matrix: Surface Soil

Date Collected: 2/14/12 12:11

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.2 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 13:50 | EPA 200.8 |
| 7439-92-1 | Lead | 200 | | mg/kg dry | 2.5 | 3/09/12 13:27 | 3/14/12 13:55 | EPA 200.8 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1722SF

Lab ID: E120710-67

Station ID: WA1722

Matrix: Surface Soil

Date Collected: 2/14/12 12:11

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1728SF

Lab ID: E120710-68

Station ID: WA1728

Matrix: Surface Soil

Date Collected: 2/14/12 11:48

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 8.0 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 13:59 | EPA 200.8 |
| 7439-92-1 | Lead | 840 | | mg/kg dry | 10 | 3/09/12 13:27 | 3/14/12 14:04 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1728SF

Lab ID: E120710-68

Station ID: WA1728

Matrix: Surface Soil

Date Collected: 2/14/12 11:48

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1732SF

Lab ID: E120710-69

Station ID: WA1732

Matrix: Surface Soil

Date Collected: 2/14/12 10:24

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 6.6 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 14:09 | EPA 200.8 |
| 7439-92-1 | Lead | 170 | | mg/kg dry | 2.5 | 3/09/12 13:27 | 3/14/12 14:14 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1732SF

Lab ID: E120710-69

Station ID: WA1732

Matrix: Surface Soil

Date Collected: 2/14/12 10:24

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1734SF

Lab ID: E120710-70

Station ID: WA1734

Matrix: Surface Soil

Date Collected: 2/14/12 9:52

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 9.6 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 14:29 | EPA 200.8 |
| 7439-92-1 | Lead | 110 | | mg/kg dry | 1.0 | 3/09/12 13:27 | 3/14/12 14:34 | EPA 200.8 |



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1734SF

Lab ID: E120710-70

Station ID: WA1734

Matrix: Surface Soil

Date Collected: 2/14/12 9:52

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| E1642941 | % Solids | 77 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1740SF

Lab ID: E120710-71

Station ID: WA1740

Matrix: Surface Soil

Date Collected: 2/14/12 11:15

| <i>CAS Number</i> | <i>Analyte</i> | <i>Results</i> | <i>Qualifiers</i> | <i>Units</i> | <i>MRL</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Method</i> |
|-----------------------|----------------|----------------|-------------------|--------------|------------|------------------|------------------|---------------|
| 7440-38-2 | Arsenic | 11 | | mg/kg dry | 0.20 | 3/09/12 13:27 | 3/14/12 14:49 | EPA 200.8 |
| 7439-92-1 | Lead | 270 | | mg/kg dry | 2.5 | 3/09/12 13:27 | 3/14/12 14:54 | EPA 200.8 |



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties

Project: 12-0195, Black Leaf Chemicals

Sample ID: WA1740SF

Lab ID: E120710-71

Station ID: WA1740

Matrix: Surface Soil

Date Collected: 2/14/12 11:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|---------------|----------|---------|------------|-------|-----|------------------|------------------|-----------|
| E1642941 | % Solids | 78 | | % | 0.0 | 3/07/12 15:40 | 3/09/12 10:40 | EPA 200.2 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|---------|-----------------|-----------|---------------------------------------|---------------|---------------------------------------|-------------|------|-----------|-------|
| Batch 1202159 - M 200.2 Metals Soil | | | | | | | | | | |
| Blank (1202159-BLK1) | | | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |
| Blank (1202159-BLK2) | | | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |
| LCS (1202159-BS1) | | | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | 51.165 | 1.0 | mg/kg dry | 50.000 | | 102 | 85-115 | | | |
| Lead | 101.58 | 1.0 | " | 100.00 | | 102 | 85-115 | | | |
| Matrix Spike (1202159-MS1) | | | | Source: E120710-11RE1 | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | 55.057 | 2.5 | mg/kg dry | 49.039 | 8.5735 | 94.8 | 70-130 | | | |
| Lead | 335.79 | 2.5 | " | 98.078 | 250.78 | 86.7 | 70-130 | | | |
| Matrix Spike (1202159-MS2) | | | | Source: E120710-21RE1 | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | 55.241 | 2.5 | mg/kg dry | 49.476 | 8.2927 | 94.9 | 70-130 | | | |
| Lead | 322.00 | 2.5 | " | 98.951 | 264.25 | 58.4 | 70-130 | | | QM-1 |
| Matrix Spike Dup (1202159-MSD1) | | | | Source: E120710-11RE1 | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | 57.015 | 2.5 | mg/kg dry | 49.029 | 8.5735 | 98.8 | 70-130 | 3.49 | 20 | |
| Lead | 342.84 | 2.5 | " | 98.058 | 250.78 | 93.9 | 70-130 | 2.08 | 20 | |
| Matrix Spike Dup (1202159-MSD2) | | | | Source: E120710-21RE1 | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | 53.893 | 2.5 | mg/kg dry | 49.388 | 8.2927 | 92.3 | 70-130 | 2.47 | 20 | |
| Lead | 334.48 | 2.5 | " | 98.775 | 264.25 | 71.1 | 70-130 | 3.80 | 20 | |
| MRL Verification (1202159-PS1) | | | | Prepared: 02/28/12 Analyzed: 03/09/12 | | | | | | |
| EPA 200.8 | | | | | | | | | | |
| Arsenic | 0.10200 | 0.10 | mg/kg dry | 0.10000 | | 102 | 65-135 | | | MRL-3 |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1202159 - M 200.2 Metals Soil

MRL Verification (1202159-PS1)

Prepared: 02/28/12 Analyzed: 03/09/12

| | | | | | | | | | | |
|------|---------|------|-----------|---------|--|-----|--------|--|--|-------|
| Lead | 0.10870 | 0.10 | mg/kg dry | 0.10000 | | 109 | 65-135 | | | MRL-3 |
|------|---------|------|-----------|---------|--|-----|--------|--|--|-------|

Batch 1203037 - M 200.2 Metals Soil

Blank (1203037-BLK1)

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-----------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

Blank (1203037-BLK2)

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-----------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

LCS (1203037-BS1)

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--|-----|--------|--|--|--|
| Arsenic | 51.864 | 1.0 | mg/kg dry | 50.000 | | 104 | 85-115 | | | |
| Lead | 104.31 | 1.0 | " | 100.00 | | 104 | 85-115 | | | |

Matrix Spike (1203037-MS1)

Source: E120710-24RE1

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|--|--|--|
| Arsenic | 57.005 | 2.5 | mg/kg dry | 49.145 | 10.235 | 95.2 | 70-130 | | | |
| Lead | 385.50 | 2.5 | " | 98.290 | 266.25 | 121 | 70-130 | | | |

Matrix Spike (1203037-MS2)

Source: E120710-34RE1

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|--|--|--|
| Arsenic | 48.323 | 2.5 | mg/kg dry | 49.860 | 7.7036 | 81.5 | 70-130 | | | |
| Lead | 204.30 | 2.5 | " | 99.721 | 119.76 | 84.8 | 70-130 | | | |

Matrix Spike Dup (1203037-MSD1)

Source: E120710-24RE1

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|------|----|--|
| Arsenic | 56.168 | 2.5 | mg/kg dry | 49.613 | 10.235 | 92.6 | 70-130 | 1.48 | 20 | |
| Lead | 379.18 | 2.5 | " | 99.226 | 266.25 | 114 | 70-130 | 1.65 | 20 | |



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: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1203037 - M 200.2 Metals Soil

Matrix Spike Dup (1203037-MSD2)

Source: E120710-34RE1

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|------|----|--|
| Arsenic | 49.200 | 2.5 | mg/kg dry | 49.662 | 7.7036 | 83.6 | 70-130 | 1.80 | 20 | |
| Lead | 206.51 | 2.5 | " | 99.325 | 119.76 | 87.3 | 70-130 | 1.08 | 20 | |

MRL Verification (1203037-PS1)

Prepared: 03/08/12 Analyzed: 03/12/12

EPA 200.8

| | | | | | | | | | | |
|---------|----------|------|-----------|---------|--|------|--------|--|--|----------------|
| Arsenic | 0.050735 | 0.10 | mg/kg dry | 0.10000 | | 50.7 | 65-135 | | | MRL-3, QR-1, U |
| Lead | 0.12189 | 0.10 | " | 0.10000 | | 122 | 65-135 | | | MRL-3 |

Batch 1203038 - M 200.2 Metals Soil

Blank (1203038-BLK1)

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-----------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

Blank (1203038-BLK2)

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-----------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

LCS (1203038-BS1)

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--|------|--------|--|--|--|
| Arsenic | 49.533 | 1.0 | mg/kg dry | 50.000 | | 99.1 | 85-115 | | | |
| Lead | 103.15 | 1.0 | " | 100.00 | | 103 | 85-115 | | | |

Matrix Spike (1203038-MS1)

Source: E120710-44RE1

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|--|--|--|
| Arsenic | 53.166 | 2.5 | mg/kg dry | 49.930 | 7.0805 | 92.3 | 70-130 | | | |
| Lead | 251.32 | 2.5 | " | 99.860 | 164.59 | 86.9 | 70-130 | | | |

Matrix Spike (1203038-MS2)

Source: E120710-54RE1

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|--|--|------|
| Arsenic | 58.036 | 4.9 | mg/kg dry | 49.290 | 12.872 | 91.6 | 70-130 | | | |
| Lead | 525.31 | 4.9 | " | 98.580 | 391.69 | 136 | 70-130 | | | XM-1 |



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Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1203038 - M 200.2 Metals Soil

Matrix Spike Dup (1203038-MSD1)

Source: E120710-44RE1

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|-------|----|--|
| Arsenic | 51.233 | 2.5 | mg/kg dry | 49.436 | 7.0805 | 89.3 | 70-130 | 3.70 | 20 | |
| Lead | 248.96 | 2.5 | " | 98.873 | 164.59 | 85.3 | 70-130 | 0.944 | 20 | |

Matrix Spike Dup (1203038-MSD2)

Source: E120710-54RE1

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|------|----|------|
| Arsenic | 59.164 | 4.9 | mg/kg dry | 49.271 | 12.872 | 94.0 | 70-130 | 1.92 | 20 | |
| Lead | 516.90 | 4.9 | " | 98.542 | 391.69 | 127 | 70-130 | 1.61 | 20 | XM-1 |

MRL Verification (1203038-PS1)

Prepared: 03/08/12 Analyzed: 03/13/12

EPA 200.8

| | | | | | | | | | | |
|---------|---------|------|-----------|---------|--|-----|--------|--|--|-------|
| Arsenic | 0.10469 | 0.10 | mg/kg dry | 0.10000 | | 105 | 65-135 | | | MRL-3 |
| Lead | 0.10953 | 0.10 | " | 0.10000 | | 110 | 65-135 | | | MRL-3 |

Batch 1203050 - M 200.2 Metals Soil

Blank (1203050-BLK1)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-----------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

Blank (1203050-BLK2)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-----------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg dry | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

LCS (1203050-BS1)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--|-----|--------|--|--|--|
| Arsenic | 52.189 | 1.0 | mg/kg dry | 50.000 | | 104 | 85-115 | | | |
| Lead | 102.87 | 1.0 | " | 100.00 | | 103 | 85-115 | | | |

Matrix Spike (1203050-MS1)

Source: E120710-69

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|--|--|--|
| Arsenic | 52.632 | 2.5 | mg/kg dry | 49.682 | 6.5578 | 92.7 | 70-130 | | | |
| Lead | 297.21 | 2.5 | " | 99.364 | 188.94 | 109 | 70-130 | | | |



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Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1203050 - M 200.2 Metals Soil

Matrix Spike Dup (1203050-MSD1)

Source: E120710-69

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-----------|--------|--------|------|--------|--------|----|--|
| Arsenic | 52.666 | 2.5 | mg/kg dry | 49.741 | 6.5578 | 92.7 | 70-130 | 0.0663 | 20 | |
| Lead | 274.11 | 2.5 | " | 99.483 | 188.94 | 85.6 | 70-130 | 8.08 | 20 | |

MRL Verification (1203050-PS1)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|----------|------|-----------|---------|--|------|--------|--|--|-------------|
| Arsenic | 0.076218 | 0.10 | mg/kg dry | 0.10000 | | 76.2 | 65-135 | | | MRL-3, U |
| Lead | 0.10481 | 0.10 | " | 0.10000 | | 105 | 65-135 | | | MRL-3 |

Batch 1203051 - M 200.2 Metals Waste

Blank (1203051-BLK1)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|---|------|-------|--|--|--|--|--|--|---|
| Arsenic | U | 0.10 | mg/kg | | | | | | | U |
| Lead | U | 0.10 | " | | | | | | | U |

LCS (1203051-BS1)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-------|--------|--|-----|--------|--|--|--|
| Arsenic | 50.408 | 1.0 | mg/kg | 50.000 | | 101 | 85-115 | | | |
| Lead | 103.92 | 1.0 | " | 100.00 | | 104 | 85-115 | | | |

Matrix Spike (1203051-MS1)

Source: E120710-07

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|------|--------|----|-------|--------|--------|-----|--------|--|--|------|
| Lead | 3217.6 | 49 | mg/kg | 98.971 | 3070.7 | 148 | 70-130 | | | XM-1 |
|------|--------|----|-------|--------|--------|-----|--------|--|--|------|

Matrix Spike (1203051-MS2)

Source: E120710-07RE1

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-------|--------|--------|------|--------|--|--|--|
| Arsenic | 51.397 | 2.5 | mg/kg | 49.485 | 10.403 | 82.8 | 70-130 | | | |
|---------|--------|-----|-------|--------|--------|------|--------|--|--|--|

Matrix Spike Dup (1203051-MSD1)

Source: E120710-07

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|------|--------|----|-------|--------|--------|-----|--------|------|----|------|
| Lead | 3258.7 | 50 | mg/kg | 99.344 | 3070.7 | 189 | 70-130 | 1.27 | 20 | XM-1 |
|------|--------|----|-------|--------|--------|-----|--------|------|----|------|

Matrix Spike Dup (1203051-MSD2)

Source: E120710-07RE1

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|--------|-----|-------|--------|--------|------|--------|------|----|--|
| Arsenic | 56.005 | 2.5 | mg/kg | 49.672 | 10.403 | 91.8 | 70-130 | 8.58 | 20 | |
|---------|--------|-----|-------|--------|--------|------|--------|------|----|--|



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Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SEDS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1203051 - M 200.2 Metals Waste

MRL Verification (1203051-PS1)

Prepared: 03/09/12 Analyzed: 03/14/12

EPA 200.8

| | | | | | | | | | | |
|---------|---------|------|-------|---------|--|-----|--------|--|--|----------------|
| Arsenic | 0.15109 | 0.10 | mg/kg | 0.10000 | | 151 | 65-135 | | | MRL-6, QR-2 |
| Lead | 0.11949 | 0.10 | " | 0.10000 | | 119 | 65-135 | | | MRL-6 |



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Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SEDS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1202144 - M % Solids

Duplicate (1202144-DUP1)

Source: E120710-23

Prepared: 02/24/12 Analyzed: 02/27/12

EPA 200.2

| | | | | | | | | | | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|
| % Solids | 76.213 | 0.0 | % | | 75.842 | | | 0.488 | 10 | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|

Batch 1203009 - M % Solids

Duplicate (1203009-DUP1)

Source: E120710-43

Prepared: 03/01/12 Analyzed: 03/02/12

EPA 200.2

| | | | | | | | | | | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|
| % Solids | 77.248 | 0.0 | % | | 77.704 | | | 0.589 | 10 | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|

Batch 1203017 - M % Solids

Duplicate (1203017-DUP1)

Source: E120710-63

Prepared: 03/05/12 Analyzed: 03/07/12

EPA 200.2

| | | | | | | | | | | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|
| % Solids | 77.779 | 0.0 | % | | 77.657 | | | 0.157 | 10 | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|

Batch 1203049 - M % Solids

Duplicate (1203049-DUP1)

Source: E120710-68

Prepared: 03/07/12 Analyzed: 03/09/12

EPA 200.2

| | | | | | | | | | | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|
| % Solids | 77.688 | 0.0 | % | | 77.500 | | | 0.242 | 10 | |
|----------|--------|-----|---|--|--------|--|--|-------|----|--|



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D.A.R.T. Id: 12-0195

Project: 12-0195, Black Leaf Chemicals - Reported by Mike Wasko

Notes and Definitions for QC Samples

| | |
|-------|--|
| U | The analyte was not detected at or above the reporting limit. |
| MRL-3 | MRL verification for Soil matrix |
| MRL-6 | MRL verification for Waste matrix |
| QM-1 | Matrix Spike Recovery less than method control limits |
| QR-1 | MRL verification recovery less than lower control limits. |
| QR-2 | MRL verification recovery greater than upper control limits. |
| XM-1 | Sample background/spike ratio higher than method evaluation criteria |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

April 4, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0221, Black Leaf Chemicals
Superfund Emergency Response and Removal

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Don Hunter

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

Analyses Included in this report:

Method Used:

Organochlorine Pesticides (OCP)

Organochlorine pesticides

CLP Pesticides



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Report Narrative for Work Order C121007, Project: 12-0221
Site Name: Black Leaf Chemicals, Louisville, KY
CLP Case No. 42229, ELEMENT Sample Nos. C121007-01 through C121007-69

Organic Analysis: ALS Laboratory Group (DataChem), Salt Lake City, UT

The ESAT Work Team reviewed data for sixty-eight (68) soil samples analyzed for semi-volatile extractable organic compounds and pesticide compounds per CLP statement of work SOM01.2. The analytical results were reported in four sample delivery groups (SDGs) by the laboratory. In addition to the field samples, the laboratory analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods. The samples were collected on 02/14/12 and 02/15/12, and were received by the laboratory on 02/16/12. The final data package was received on 03/08/12 by the USEPA Quality Assurance Section, Region 4 SEDS/MTSB.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Semi-volatile Extractable Organic Compounds

The laboratory scored within warning limits for all spiked analytes in the PES except for 2,4-dichlorophenol, anthracene, and benzo(a)anthracene which were all scored as warning low. Any positive detects for these compounds were qualified "J" (CLP25), and any non-detects were qualified "R" (CLP25).

The percent recoveries of the DMC 4-chloroaniline-d4 was within the quality control limits established by the method and less than 10% for samples C121007-01, 06, 07, 08, 09, 11, 12, 13, 15, 18, 23, 25, 28, 29, 30, 31, 32, 33, 36, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 54, 55, 58, 61, 62, 63, 65, 67, and 68. The compounds associated with this DMC, 4-chloroaniline, hexachlorocyclopentadiene, and 3, 3'-dichlorobenzidine were qualified "J" (QS-4) in each of these samples.

The laboratory reported zero percent recovery for the DMC 4-chloroaniline-d4 in samples C121007-14, 16, 17, 19, 20, 21, 26, 27, 38, and 50. For these samples, the compounds associated with this DMC, 4-chloroaniline, hexachlorocyclopentadiene, and 3, 3'-dichlorobenzidine were qualified "R" (QS-4).

The percent recoveries of the DMC 4,6-dinitro-2-methylphenol-d2 was within the quality control limits



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established by the method and less than 10% for samples C121007-04, 05, 06, 07, 09, 42, 49, and 62. The compound associated with this DMC, 4,6-dinitro-2-methylphenol was qualified "J" (QS-4) in each of these samples.

The percent recoveries of the DMC 4-methylphenol-d8 was within the quality control limits established by the method and less than 10% for sample C121007-26. The compounds associated with this DMC, 2-methylphenol, 4-methylphenol, 2,4-dimethylphenol were qualified "J" (QS-4) in this sample.

The percent recoveries of the DMC 4-methylphenol-d8 was less than the quality control limit established by the method and less than 10% for sample C121007-14. The compounds associated with this DMC, 2-methylphenol, 4-methylphenol, 2,4-dimethylphenol were qualified "R" (QS-4) in this sample.

Low DMC recoveries were observed in samples C121007-01, 03, 07, 11, 17, 19, 21, 40, 42, 43, and 50. All results associated with out of control DMCs were qualified "J" (QS-3) in these samples.

Internal standard area counts for chrysene-d12 and/or perylene were less than the quality control limit in samples C121007-20, 24, 25, 28, 29, and 30. The extracts were re-analyzed with similar results and low internal standard area counts observed suggesting a matrix effect. All results associated with out of control internal standards were qualified "J" (QI-1) in each of these samples.

The pyrene results were qualified "J" (QM-3) in samples C121007-38 and 63 due to poor precision in the matrix spike/ matrix spike duplicate (MS/MSD) performed for these two samples.

In the MS/MSD pair, the laboratory reported a low percent recovery for the compound 4-chloro-3-methylphenol for sample C121007-37. The non-detected result for this compound was qualified "UJ" (QM-1).

Due to matrix affects, the laboratory was required to dilute the sample extracts prior to the gel permeation cleanup procedure due to extract viscosity for samples C121007-02, 10, 22, 51, 56, 57, 59, and 60. As a result, the reporting limits for these samples are elevated even though all target analytes were present at less than the adjusted CRQL.

Pesticide Compounds

Pesticide results were "N,CLP12" qualified whenever the percent difference between analytical column results exceeds 25% but is less than 70%. Pesticide results were qualified "U" (CLP13) at a higher reporting limit whenever a peak was present within the retention time window established on both columns for that pesticide, but the percent difference exceeded 70%. Six spiked analytes to include: alpha-BHC, delta-BHC, gamma-BHC, heptachlor, dieldrin and alpha-chlordane in the PES had percent differences exceeding 25%. Higher percent differences with the attached "N" qualifier may be indicative of a false positive result. Conversely, higher percent differences leading to "U" qualification could potentially be a false negative due



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to a coelution affecting only one column.

The dieldrin and 4,4'-DDT results in sample C121007-38, and the 4,4'-DDT result in sample C121007-37 were qualified "J" (QM-3) due to poor precision observed in the MS/MSD performed for these samples.

GC/MS confirmed the presence of 4,4'-DDE in sample C121007-04 and dieldrin in sample C121007-44 and both of these results were qualified "D-1".

Due to matrix affects, the laboratory was required to dilute the sample extracts prior to the gel permeation cleanup procedure due to extract viscosity for samples C121007-02 and 22. As a result, the reporting limits for these samples are elevated even though all target analytes were present at less than the adjusted CRQL.

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

cc: Nardina Turner



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

| Sample ID | Laboratory ID | MD# | D# | Matrix | Date Collected |
|-----------|---------------|-----|------|-----------------|----------------|
| BC01SF | C121007-01 | | 6N51 | Surface Soil | 2/15/12 12:50 |
| BC02SB | C121007-02 | | 6N53 | Subsurface Soil | 2/15/12 13:25 |
| BC02SF | C121007-03 | | 6N54 | Surface Soil | 2/15/12 13:10 |
| BC03SF | C121007-04 | | 6N55 | Surface Soil | 2/15/12 14:00 |
| BC04SF | C121007-05 | | 6N56 | Surface Soil | 2/15/12 14:20 |
| DH1385SF | C121007-06 | | 6N11 | Surface Soil | 2/14/12 10:30 |
| DH1389SF | C121007-07 | | 6N12 | Surface Soil | 2/14/12 10:00 |
| SF1338SF | C121007-08 | | 6N59 | Surface Soil | 2/14/12 11:35 |
| SF1340SF | C121007-09 | | 6N13 | Surface Soil | 2/14/12 09:50 |
| SF1340SFD | C121007-10 | | 6N58 | Surface Soil | 2/14/12 10:35 |
| SL1700SF | C121007-11 | | 6N14 | Surface Soil | 2/15/12 10:10 |
| SL1701SF | C121007-12 | | 6N15 | Surface Soil | 2/15/12 08:55 |
| SL1701SFS | C121007-13 | | 6N77 | Surface Soil | 2/15/12 08:55 |
| SL1701SFX | C121007-14 | | 6N78 | Surface Soil | 2/15/12 09:18 |
| SL1702SF | C121007-15 | | 6N16 | Surface Soil | 2/15/12 10:33 |
| SL1703SF | C121007-16 | | 6N17 | Surface Soil | 2/15/12 09:38 |
| SL1708SF | C121007-17 | | 6N18 | Surface Soil | 2/15/12 10:50 |
| SL1710SF | C121007-18 | | 6N72 | Surface Soil | 2/15/12 12:17 |
| SL1712SF | C121007-19 | | 6N73 | Surface Soil | 2/15/12 12:40 |
| SL1714SF | C121007-20 | | 6N19 | Surface Soil | 2/15/12 13:00 |
| SL1716SF | C121007-21 | | 6N20 | Surface Soil | 2/15/12 13:17 |
| SL1718SF | C121007-22 | | 6N50 | Surface Soil | 2/15/12 13:33 |
| SL1720SF | C121007-23 | | 6N74 | Surface Soil | 2/15/12 13:50 |
| SL1722SF | C121007-24 | | 6N21 | Surface Soil | 2/15/12 10:15 |
| SL1724SF | C121007-25 | | 6N22 | Surface Soil | 2/15/12 09:55 |
| SL1726SF | C121007-26 | | 6N23 | Surface Soil | 2/15/12 09:20 |
| SL1726SFS | C121007-27 | | 6N76 | Surface Soil | 2/15/12 09:20 |
| SL1728SF | C121007-28 | | 6N24 | Surface Soil | 2/15/12 09:00 |
| SL1732SF | C121007-29 | | 6N25 | Surface Soil | 2/14/12 17:10 |
| SL1734SF | C121007-30 | | 6N26 | Surface Soil | 2/14/12 16:45 |
| SL1736SF | C121007-31 | | 6N27 | Surface Soil | 2/14/12 16:15 |
| SL1740SF | C121007-32 | | 6N28 | Surface Soil | 2/14/12 14:30 |
| SL1740SFD | C121007-33 | | 6N63 | Surface Soil | 2/14/12 14:40 |
| SL1742SF | C121007-34 | | 6N29 | Surface Soil | 2/14/12 14:05 |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

| | | | | |
|-----------|------------|------|--------------|---------------|
| SL1742SFX | C121007-35 | 6N66 | Surface Soil | 2/14/12 13:45 |
| SL1748SF | C121007-36 | 6N30 | Surface Soil | 2/14/12 12:15 |
| SL1750SF | C121007-37 | 6N61 | Surface Soil | 2/14/12 12:00 |
| SL1752SF | C121007-38 | 6N57 | Surface Soil | 2/14/12 11:00 |
| WA1518SF | C121007-39 | 6N31 | Surface Soil | 2/14/12 13:10 |
| WA1518SFX | C121007-40 | 6N64 | Surface Soil | 2/14/12 13:35 |
| WA1520SF | C121007-41 | 6N32 | Surface Soil | 2/14/12 14:05 |
| WA1526SF | C121007-42 | 6N65 | Surface Soil | 2/14/12 14:35 |
| WA1534SF | C121007-43 | 6N70 | Surface Soil | 2/15/12 08:55 |
| WA1602SF | C121007-44 | 6N33 | Surface Soil | 2/14/12 15:40 |
| WA1606SF | C121007-45 | 6N34 | Surface Soil | 2/14/12 16:25 |
| WA1608SF | C121007-46 | 6N69 | Surface Soil | 2/14/12 16:50 |
| WA1610SF | C121007-47 | 6N35 | Surface Soil | 2/15/12 10:00 |
| WA1610SFX | C121007-48 | 6N75 | Surface Soil | 2/15/12 10:00 |
| WA1614SF | C121007-49 | 6N36 | Surface Soil | 2/14/12 17:15 |
| WA1616SF | C121007-50 | 6N37 | Surface Soil | 2/15/12 11:00 |
| WA1618SF | C121007-51 | 6N71 | Surface Soil | 2/15/12 10:40 |
| WA1620SF | C121007-52 | 6N38 | Surface Soil | 2/15/12 11:30 |
| WA1620SFS | C121007-53 | 6N83 | Surface Soil | 2/15/12 11:35 |
| WA1624SF | C121007-54 | 6N39 | Surface Soil | 2/15/12 12:00 |
| WA1626SF | C121007-55 | 6N40 | Surface Soil | 2/14/12 17:11 |
| WA1702SF | C121007-56 | 6N41 | Surface Soil | 2/14/12 14:50 |
| WA1702SFD | C121007-57 | 6N67 | Surface Soil | 2/14/12 15:05 |
| WA1702SFX | C121007-58 | 6N68 | Surface Soil | 2/14/12 15:25 |
| WA1704SF | C121007-59 | 6N42 | Surface Soil | 2/14/12 15:45 |
| WA1712SF | C121007-60 | 6N43 | Surface Soil | 2/14/12 16:18 |
| WA1714SF | C121007-61 | 6N44 | Surface Soil | 2/14/12 13:50 |
| WA1716SF | C121007-62 | 6N45 | Surface Soil | 2/14/12 13:34 |
| WA1716SFX | C121007-63 | 6N62 | Surface Soil | 2/14/12 13:34 |
| WA1722SF | C121007-64 | 6N60 | Surface Soil | 2/14/12 12:11 |
| WA1728SF | C121007-65 | 6N46 | Surface Soil | 2/14/12 11:48 |
| WA1732SF | C121007-66 | 6N47 | Surface Soil | 2/14/12 10:24 |
| WA1734SF | C121007-67 | 6N48 | Surface Soil | 2/14/12 09:52 |
| WA1740SF | C121007-68 | 6N49 | Surface Soil | 2/14/12 11:15 |



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DATA QUALIFIER DEFINITIONS

| | |
|-------|---|
| U | The analyte was not detected at or above the reporting limit. |
| CLP01 | Concentration reported is less than the lowest standard on calibration curve |
| CLP12 | Difference between GC columns above method warning limit |
| CLP13 | Difference between GC columns above method action limit |
| D-1 | The analyte is determined to be present. The presence of the analyte was confirmed by GC/MS. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| N | There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. |
| NJ | Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value. |
| 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. |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC01SF

Lab ID: C121007-01

MD No:

Station ID: BC01

Matrix: Surface Soil

D No: 6N51 DATAC

Date Collected: 2/15/12 12:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 28 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 9.9 | U, CLP13 | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 86 | | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 29 | N, CLP12 | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.6 | U | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.6 | U | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.6 | U | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.6 | U | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 3.4 | NJ, CLP01, CLP12 | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.6 | U | ug/kg dry | 4.6 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.4 | U | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 4.3 | U, CLP13 | ug/kg dry | 2.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 24 | U | ug/kg dry | 24 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 240 | U | ug/kg dry | 240 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SB

Lab ID: C121007-02

MD No:

Station ID: BC02

Matrix: Subsurface Soil

D No: 6N53 DATAC

Date Collected: 2/15/12 13:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 16 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 38 | U | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 19 | U | ug/kg dry | 19 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 190 | U | ug/kg dry | 190 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 1900 | U | ug/kg dry | 1900 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SF

Lab ID: C121007-03

MD No:

Station ID: BC02

Matrix: Surface Soil

D No: 6N54 DATAC

Date Collected: 2/15/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 17 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 21 | N, CLP12 | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 76 | N, CLP12 | ug/kg dry | 38 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 50 | | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.65 | NJ, CLP01, CLP12 | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 4.2 | U, CLP13 | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 200 | U | ug/kg dry | 200 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC03SF

Lab ID: C121007-04

MD No:

Station ID: BC03

Matrix: Surface Soil

D No: 6N55 DATAC

Date Collected: 2/15/12 14:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 7.7 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 32 | NJ, CLP01, CLP12 | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 190 | D-1 | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 250 | | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 23 | NJ, CLP01, CLP12 | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 35 | U | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 35 | U | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 35 | U | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 35 | U | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 35 | U | ug/kg dry | 35 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 180 | U | ug/kg dry | 180 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 1800 | U | ug/kg dry | 1800 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC04SF

Lab ID: C121007-05

MD No:

Station ID: BC04

Matrix: Surface Soil

D No: 6N56 DATAC

Date Collected: 2/15/12 14:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 6.5 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.38 | NJ, CLP01, CLP12 | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 3.5 | U | ug/kg dry | 3.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 1.8 | U | ug/kg dry | 1.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 18 | U | ug/kg dry | 18 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 180 | U | ug/kg dry | 180 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1385SF

Lab ID: C121007-06

MD No:

Station ID: DH1385

Matrix: Surface Soil

D No: 6N11 DATAC

Date Collected: 2/14/12 10:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | N, CLP12 | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1389SF

Lab ID: C121007-07

MD No:

Station ID: DH1389

Matrix: Surface Soil

D No: 6N12 DATAC

Date Collected: 2/14/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 13 | | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 22 | N, CLP12 | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 1.4 | J, CLP01 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1338SF

Lab ID: C121007-08

MD No:

Station ID: SF1338

Matrix: Surface Soil

D No: 6N59 DATAC

Date Collected: 2/14/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 26 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 7.2 | | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 15 | | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 4.6 | U, CLP13 | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 9.9 | | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 3.6 | NJ, CLP01, CLP12 | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 4.3 | | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 23 | U | ug/kg dry | 23 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 230 | U | ug/kg dry | 230 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SF

Lab ID: C121007-09

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N13 DATAC

Date Collected: 2/14/12 9:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 20 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 7.3 | N, CLP12 | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 6.1 | | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 4.3 | U, CLP13 | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.25 | J, CLP01 | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 4.7 | U, CLP13 | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 2.1 | NJ, CLP01, CLP12 | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 3.3 | | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SFD

Lab ID: C121007-10

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N58 DATAC

Date Collected: 2/14/12 10:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 26 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 8.0 | | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 10 | | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 3.0 | U, CLP13 | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 9.8 | | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 1.6 | J, CLP01 | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 3.1 | | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1700SF

Lab ID: C121007-11

MD No:

Station ID: SL1700

Matrix: Surface Soil

D No: 6N14 DATAC

Date Collected: 2/15/12 10:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 3.6 | J, CLP01 | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 5.9 | | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SF

Lab ID: C121007-12

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N15 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.5 | U, CLP13 | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 17 | N, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 32 | | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.36 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 1.1 | J, CLP01 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 0.50 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.45 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFS

Lab ID: C121007-13

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N77 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 19 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 4.8 | | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 7.0 | | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.26 | J, CLP01 | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 0.86 | J, CLP01 | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 20 | U | ug/kg dry | 20 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 200 | U | ug/kg dry | 200 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFX

Lab ID: C121007-14

MD No:

Station ID: SL1701X

Matrix: Surface Soil

D No: 6N78 DATAC

Date Collected: 2/15/12 9:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 1.3 | NJ, CLP01, CLP12 | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 2.4 | J, CLP01 | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.23 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 2.2 | NJ, CLP01, CLP12 | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 0.48 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1702SF

Lab ID: C121007-15

MD No:

Station ID: SL1702

Matrix: Surface Soil

D No: 6N16 DATAC

Date Collected: 2/15/12 10:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 26 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 7.9 | U, CLP13 | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 12 | | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1703SF

Lab ID: C121007-16

MD No:

Station ID: SL1703

Matrix: Surface Soil

D No: 6N17 DATAC

Date Collected: 2/15/12 9:38

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/27/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 0.81 | NJ, CLP01, CLP12 | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 6.2 | | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 0.63 | NJ, CLP01, CLP12 | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 1.1 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.33 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.65 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/27/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1708SF

Lab ID: C121007-17

MD No:

Station ID: SL1708

Matrix: Surface Soil

D No: 6N18 DATAC

Date Collected: 2/15/12 10:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 5.7 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 2.5 | NJ, CLP12, CLP01 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 0.76 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 1.1 | J, CLP01 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1710SF

Lab ID: C121007-18

MD No:

Station ID: SL1710

Matrix: Surface Soil

D No: 6N72 DATAC

Date Collected: 2/15/12 12:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 31 | | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 67 | | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 4.6 | U, CLP13 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 7.2 | | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 5.7 | | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 1.4 | NJ, CLP01, CLP12 | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 6.5 | N, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1712SF

Lab ID: C121007-19

MD No:

Station ID: SL1712

Matrix: Surface Soil

D No: 6N73 DATAC

Date Collected: 2/15/12 12:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 5.0 | | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 9.2 | | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 0.90 | J, CLP01 | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1714SF

Lab ID: C121007-20

MD No:

Station ID: SL1714

Matrix: Surface Soil

D No: 6N19 DATAC

Date Collected: 2/15/12 13:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 6.4 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 13 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 13 | U, CLP13 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 13 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 9.3 | | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 1.4 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1716SF

Lab ID: C121007-21

MD No:

Station ID: SL1716

Matrix: Surface Soil

D No: 6N20 DATAC

Date Collected: 2/15/12 13:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 7.4 | | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | N, CLP12 | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 85 | N, CLP12 | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 20 | N, CLP12 | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 2.5 | NJ, CLP01, CLP12 | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 69 | | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.87 | J, CLP01 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 7.9 | N, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1718SF

Lab ID: C121007-22

MD No:

Station ID: SL1718

Matrix: Surface Soil

D No: 6N50 DATAC

Date Collected: 2/15/12 13:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 220 | U | ug/kg dry | 220 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1720SF

Lab ID: C121007-23

MD No:

Station ID: SL1720

Matrix: Surface Soil

D No: 6N74 DATAC

Date Collected: 2/15/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 21 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 49 | N, CLP12 | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 37 | | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | U | ug/kg dry | 4.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 1.4 | J, CLP01 | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.56 | J, CLP01 | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1722SF

Lab ID: C121007-24

MD No:

Station ID: SL1722

Matrix: Surface Soil

D No: 6N21 DATAC

Date Collected: 2/15/12 10:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 1.4 | J, CLP01 | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 8.9 | | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 16 | | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 0.65 | J, CLP01 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 5.0 | U, CLP13 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 13 | | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 5.1 | | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.36 | J, CLP01 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.64 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1724SF

Lab ID: C121007-25

MD No:

Station ID: SL1724

Matrix: Surface Soil

D No: 6N22 DATAC

Date Collected: 2/15/12 9:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 15 | | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 21 | | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 1.4 | J, CLP01 | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 1.4 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.95 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SF

Lab ID: C121007-26

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N23 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 5.3 | U, CLP13 | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 11 | | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 14 | | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 1.9 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | | ug/kg dry | 4.0 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.5 | N, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SFS

Lab ID: C121007-27

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N76 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 7.5 | | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 0.54 | J, CLP01 | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 0.58 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1728SF

Lab ID: C121007-28

MD No:

Station ID: SL1728

Matrix: Surface Soil

D No: 6N24 DATAC

Date Collected: 2/15/12 9:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 5.5 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 8.9 | N, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 4.2 | U, CLP13 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 1.3 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 4.2 | | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.37 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 1.4 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1732SF

Lab ID: C121007-29

MD No:

Station ID: SL1732

Matrix: Surface Soil

D No: 6N25 DATAC

Date Collected: 2/14/12 17:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 4.2 | N, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 6.0 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 3.9 | N, CLP12 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 0.83 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 0.65 | J, CLP01 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.5 | | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.96 | J, CLP01 | ug/kg dry | 2.1 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1734SF

Lab ID: C121007-30

MD No:

Station ID: SL1734

Matrix: Surface Soil

D No: 6N26 DATAC

Date Collected: 2/14/12 16:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 220 | | % | 220 | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 1.6 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 6.8 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 1.3 | J, CLP01 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1736SF

Lab ID: C121007-31

MD No:

Station ID: SL1736

Matrix: Surface Soil

D No: 6N27 DATAC

Date Collected: 2/14/12 16:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 14 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 9.2 | U, CLP13 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 200 | N, CLP12 | ug/kg dry | 22 | 2/18/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 120 | | ug/kg dry | 22 | 2/18/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.51 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 15 | | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SF

Lab ID: C121007-32

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N28 DATAC

Date Collected: 2/14/12 14:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 5.1 | | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 6.8 | N, CLP12 | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 1.7 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.30 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SFD

Lab ID: C121007-33

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N63 DATAC

Date Collected: 2/14/12 14:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 21 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 4.7 | U, CLP13 | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 0.83 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SF

Lab ID: C121007-34

MD No:

Station ID: SL1742

Matrix: Surface Soil

D No: 6N29 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 61 | U, CLP13 | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 8.2 | NJ, CLP01, CLP12 | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 36 | J, CLP01 | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 160 | N, CLP12 | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 17 | J, CLP01 | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 41 | U | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 41 | U | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 41 | U | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 41 | U | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 41 | U | ug/kg dry | 41 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 120 | N, CLP12 | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 3.6 | NJ, CLP01, CLP12 | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 21 | U | ug/kg dry | 21 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SFX

Lab ID: C121007-35

MD No:

Station ID: SL1742X

Matrix: Surface Soil

D No: 6N66 DATAC

Date Collected: 2/14/12 13:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 20 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 40 | U | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 41 | N, CLP12 | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 51 | | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 330 | U, CLP13 | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 43 | | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 40 | U | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 40 | U | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 40 | U | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 40 | U | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 40 | U | ug/kg dry | 40 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 350 | | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 11 | J, CLP01 | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 200 | U | ug/kg dry | 200 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2000 | U | ug/kg dry | 2000 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1748SF

Lab ID: C121007-36

MD No:

Station ID: SL1748

Matrix: Surface Soil

D No: 6N30 DATAC

Date Collected: 2/14/12 12:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 19 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 53 | | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 140 | | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 2800 | | ug/kg dry | 410 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 41 | U | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 41 | U | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 41 | U | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 41 | U | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 41 | U | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 41 | U | ug/kg dry | 41 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 5.9 | J, CLP01 | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 21 | U | ug/kg dry | 21 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1750SF

Lab ID: C121007-37

MD No:

Station ID: SL1750

Matrix: Surface Soil

D No: 6N61 DATAC

Date Collected: 2/14/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 26 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 43 | NJ, CLP01, CLP12, QM-3 | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1752SF

Lab ID: C121007-38

MD No:

Station ID: SL1752

Matrix: Surface Soil

D No: 6N57 DATAC

Date Collected: 2/14/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 27 | | % | | 2/18/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 5.1 | | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 38 | N, CLP12 | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 70 | J, QM-3 | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 5.0 | N, CLP12 | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 1.3 | NJ, CLP01, CLP12, QM-3 | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 4.6 | | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SF

Lab ID: C121007-39

MD No:

Station ID: WA1518

Matrix: Surface Soil

D No: 6N31 DATAC

Date Collected: 2/14/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 90 | N, CLP12 | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 340 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 830 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 62 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 15 | J, CLP01 | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 10 | NJ, CLP01, CLP12 | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SFX

Lab ID: C121007-40

MD No:

Station ID: WA1518X

Matrix: Surface Soil

D No: 6N64 DATAC

Date Collected: 2/14/12 13:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 8.0 | U, CLP13 | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 32 | | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 24 | | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 1.8 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 18 | | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 3.6 | N, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.97 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1520SF

Lab ID: C121007-41

MD No:

Station ID: WA1520

Matrix: Surface Soil

D No: 6N32 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 8.2 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 9.7 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 3.6 | U, CLP13 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 12 | N, CLP12 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 0.48 | NJ, CLP01, CLP12 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 3.7 | N, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1526SF

Lab ID: C121007-42

MD No:

Station ID: WA1526

Matrix: Surface Soil

D No: 6N65 DATAC

Date Collected: 2/14/12 14:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 27 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 120 | | ug/kg dry | 45 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 53 | | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 81 | | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 23 | U | ug/kg dry | 23 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 230 | U | ug/kg dry | 230 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1534SF

Lab ID: C121007-43

MD No:

Station ID: WA1534

Matrix: Surface Soil

D No: 6N70 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.6 | J, CLP01 | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 270 | | ug/kg dry | 22 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 76 | | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 0.46 | J, CLP01 | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 16 | | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 2.6 | J, CLP01 | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 1.3 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1602SF

Lab ID: C121007-44

MD No:

Station ID: WA1602

Matrix: Surface Soil

D No: 6N33 DATAC

Date Collected: 2/14/12 15:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 21 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 170 | | ug/kg dry | 42 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 77 | | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 4.7 | N, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 0.48 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 21 | U, CLP13 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 0.75 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 800 | D-1 | ug/kg dry | 42 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 0.54 | J, CLP01 | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 14 | | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 3.3 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 14 | | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1606SF

Lab ID: C121007-45

MD No:

Station ID: WA1606

Matrix: Surface Soil

D No: 6N34 DATAC

Date Collected: 2/14/12 16:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 110 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 51 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 3.5 | U, CLP13 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 23 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 5.3 | N, CLP12 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 5.5 | | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 1.0 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 1.4 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1608SF

Lab ID: C121007-46

MD No:

Station ID: WA1608

Matrix: Surface Soil

D No: 6N69 DATAC

Date Collected: 2/14/12 16:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 290 | | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 110 | | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 0.71 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 23 | | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 6.3 | U, CLP13 | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.8 | U, CLP13 | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SF

Lab ID: C121007-47

MD No:

Station ID: WA1610

Matrix: Surface Soil

D No: 6N35 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 39 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 330 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 150 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 0.53 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 42 | U, CLP13 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 0.78 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 0.55 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 88 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 0.55 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 62 | | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 4.0 | | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 46 | | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SFX

Lab ID: C121007-48

MD No:

Station ID: WA1610X

Matrix: Surface Soil

D No: 6N75 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 21 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 12 | | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 1.8 | NJ, CLP01, CLP12 | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 3.9 | U | ug/kg dry | 3.9 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 0.92 | J, CLP01 | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.0 | U | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.79 | NJ, CLP01, CLP12 | ug/kg dry | 2.0 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 20 | U | ug/kg dry | 20 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 200 | U | ug/kg dry | 200 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1614SF

Lab ID: C121007-49

MD No:

Station ID: WA1614

Matrix: Surface Soil

D No: 6N36 DATAC

Date Collected: 2/14/12 17:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 27 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.3 | J, CLP01 | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 270 | | ug/kg dry | 45 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 120 | | ug/kg dry | 45 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 22 | | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1616SF

Lab ID: C121007-50

MD No:

Station ID: WA1616

Matrix: Surface Soil

D No: 6N37 DATAC

Date Collected: 2/15/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 26 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 220 | | ug/kg dry | 45 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 130 | | ug/kg dry | 45 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 0.83 | NJ, CLP01, CLP12 | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 4.5 | U, CLP13 | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 0.92 | J, CLP01 | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 8.9 | N, CLP12 | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 2.2 | J, CLP01 | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 10 | U, CLP13 | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.5 | U | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 1.8 | J, CLP01 | ug/kg dry | 4.5 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 3.6 | | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.3 | U | ug/kg dry | 2.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 23 | U | ug/kg dry | 23 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1618SF

Lab ID: C121007-51

MD No:

Station ID: WA1618

Matrix: Surface Soil

D No: 6N71 DATAC

Date Collected: 2/15/12 10:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 21 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 380 | | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 260 | | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 0.51 | NJ, CLP01, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 120 | U, CLP13 | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 95 | | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 31 | U, CLP13 | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.1 | U | ug/kg dry | 4.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.1 | U | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 170 | | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 4.0 | | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 30 | N, CLP12 | ug/kg dry | 2.1 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 210 | U | ug/kg dry | 210 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SF

Lab ID: C121007-52

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N38 DATAC

Date Collected: 2/15/12 11:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 150 | | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 130 | | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 10 | NJ, CLP01, CLP12 | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SFS

Lab ID: C121007-53

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N83 DATAC

Date Collected: 2/15/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/21/12 | 2/26/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 41 | U | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 130 | | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 110 | | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 40 | NJ, CLP01, CLP12 | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 41 | U | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 41 | U | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 41 | U | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 41 | U | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 41 | U | ug/kg dry | 41 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 21 | U | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 4.8 | NJ, CLP01, CLP12 | ug/kg dry | 21 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/26/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1624SF

Lab ID: C121007-54

MD No:

Station ID: WA1624

Matrix: Surface Soil

D No: 6N39 DATAC

Date Collected: 2/15/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.5 | J, CLP01 | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 200 | | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 87 | | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 26 | | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.4 | U | ug/kg dry | 4.4 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1626SF

Lab ID: C121007-55

MD No:

Station ID: WA1626

Matrix: Surface Soil

D No: 6N40 DATAC

Date Collected: 2/14/12 17:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 13 | U, CLP13 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 300 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 340 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 0.60 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 67 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 6.1 | U, CLP13 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.3 | U, CLP13 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SF

Lab ID: C121007-56

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N41 DATAC

Date Collected: 2/14/12 14:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 54 | N, CLP12 | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 62 | N, CLP12 | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 14 | NJ, CLP01, CLP12 | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 6.6 | NJ, CLP01, CLP12 | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 44 | U | ug/kg dry | 44 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SFD

Lab ID: C121007-57

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N67 DATAC

Date Collected: 2/14/12 15:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 20 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 41 | U | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 81 | | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 65 | N, CLP12 | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 20 | J, CLP01 | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 41 | U | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 41 | U | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 41 | U | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 41 | U | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 41 | U | ug/kg dry | 41 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 21 | U | ug/kg dry | 21 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 210 | U | ug/kg dry | 210 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SEFX

Lab ID: C121007-58

MD No:

Station ID: WA1702X

Matrix: Surface Soil

D No: 6N68 DATAC

Date Collected: 2/14/12 15:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 18 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 23 | | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 12 | | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 2.1 | J, CLP01 | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 0.53 | J, CLP01 | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 3.8 | U | ug/kg dry | 3.8 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 200 | U | ug/kg dry | 200 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1704SF

Lab ID: C121007-59

MD No:

Station ID: WA1704

Matrix: Surface Soil

D No: 6N42 DATAC

Date Collected: 2/14/12 15:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 41 | NJ, CLP01, CLP12 | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 39 | NJ, CLP01, CLP12 | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 16 | NJ, CLP01, CLP12 | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 43 | U | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1712SF

Lab ID: C121007-60

MD No:

Station ID: WA1712

Matrix: Surface Soil

D No: 6N43 DATAC

Date Collected: 2/14/12 16:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 110 | | ug/kg dry | 43 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 56 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 73 | U, CLP13 | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 0.62 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 7.6 | U, CLP13 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 11 | U, CLP13 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 98 | | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 9.4 | | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 58 | | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 5.9 | J, CLP01 | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1714SF

Lab ID: C121007-61

MD No:

Station ID: WA1714

Matrix: Surface Soil

D No: 6N44 DATAC

Date Collected: 2/14/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 5.7 | U, CLP13 | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 110 | | ug/kg dry | 42 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 65 | | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 0.50 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 29 | N, CLP12 | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 12 | U, CLP13 | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 30 | | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 9.4 | N, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SF

Lab ID: C121007-62

MD No:

Station ID: WA1716

Matrix: Surface Soil

D No: 6N45 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 48 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 29 | N, CLP12 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 7.8 | U, CLP13 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 20 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 3.8 | NJ, CLP01, CLP12 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SFX

Lab ID: C121007-63

MD No:

Station ID: WA1716X

Matrix: Surface Soil

D No: 6N62 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 14 | | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 11 | N, CLP12 | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.5 | U, CLP13 | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | NJ, CLP01, CLP12 | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1722SF

Lab ID: C121007-64

MD No:

Station ID: WA1722

Matrix: Surface Soil

D No: 6N60 DATAC

Date Collected: 2/14/12 12:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|------|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 120 | | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 62 | | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 1400 | | ug/kg dry | 420 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 42 | U | ug/kg dry | 42 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 10 | J, CLP01 | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 22 | U | ug/kg dry | 22 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 220 | U | ug/kg dry | 220 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1728SF

Lab ID: C121007-65

MD No:

Station ID: WA1728

Matrix: Surface Soil

D No: 6N46 DATAC

Date Collected: 2/14/12 11:48

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 74 | | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 51 | | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 7.4 | N, CLP12 | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.2 | U | ug/kg dry | 4.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 1.9 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 0.22 | J, CLP01 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1732SF

Lab ID: C121007-66

MD No:

Station ID: WA1732

Matrix: Surface Soil

D No: 6N47 DATAC

Date Collected: 2/14/12 10:24

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 21 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 16 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 8.0 | N, CLP12 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 2.5 | N, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 1.1 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1734SF

Lab ID: C121007-67

MD No:

Station ID: WA1734

Matrix: Surface Soil

D No: 6N48 DATAC

Date Collected: 2/14/12 9:52

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/28/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 8.8 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 9.0 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 29 | | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.3 | U | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 0.81 | J, CLP01 | ug/kg dry | 4.3 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.2 | U | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 3.0 | | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 1.0 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 0.86 | NJ, CLP01, CLP12 | ug/kg dry | 2.2 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 22 | U | ug/kg dry | 22 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/28/12 | CLP SOM01.2 P |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1740SF

Lab ID: C121007-68

MD No:

Station ID: WA1740

Matrix: Surface Soil

D No: 6N49 DATAC

Date Collected: 2/14/12 11:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------|---------|------------|-----------|-----|----------|----------|----------------|
| E1644012 | % Moisture | 18 | | % | | 2/20/12 | 3/02/12 | CLP Pesticides |
| 72-54-8 | 4,4'-DDD (p,p'-DDD) | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-55-9 | 4,4'-DDE (p,p'-DDE) | 13 | | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 50-29-3 | 4,4'-DDT (p,p'-DDT) | 17 | | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 309-00-2 | Aldrin | 64 | | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-84-6 | alpha-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5103-71-9 | alpha-Chlordane | 11 | U, CLP13 | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-85-7 | beta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 319-86-8 | delta-BHC | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 60-57-1 | Dieldrin | 42 | | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 959-98-8 | Endosulfan I (alpha) | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 33213-65-9 | Endosulfan II (beta) | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1031-07-8 | Endosulfan Sulfate | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-20-8 | Endrin | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 7421-93-4 | Endrin aldehyde | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 53494-70-5 | Endrin ketone | 4.0 | U | ug/kg dry | 4.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 5566-34-7 | gamma-Chlordane | 16 | | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 76-44-8 | Heptachlor | 3.2 | | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 1024-57-3 | Heptachlor epoxide | 2.7 | N, CLP12 | ug/kg dry | 2.0 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 72-43-5 | Methoxychlor | 20 | U | ug/kg dry | 20 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |
| 8001-35-2 | Toxaphene | 200 | U | ug/kg dry | 200 | 2/20/12 | 3/02/12 | CLP SOM01.2 P |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

April 4, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0221, Black Leaf Chemicals
Superfund Emergency Response and Removal

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Don Hunter

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

Analyses Included in this report:

Method Used:

Semi Volatile Organics (SVOA)

Semivolatile organic compounds

CLP BNA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Report Narrative for Work Order C121007, Project: 12-0221
Site Name: Black Leaf Chemicals, Louisville, KY
CLP Case No. 42229, ELEMENT Sample Nos. C121007-01 through C121007-69

Organic Analysis: ALS Laboratory Group (DataChem), Salt Lake City, UT

The ESAT Work Team reviewed data for sixty-eight (68) soil samples analyzed for semi-volatile extractable organic compounds and pesticide compounds per CLP statement of work SOM01.2. The analytical results were reported in four sample delivery groups (SDGs) by the laboratory. In addition to the field samples, the laboratory analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods. The samples were collected on 02/14/12 and 02/15/12, and were received by the laboratory on 02/16/12. The final data package was received on 03/08/12 by the USEPA Quality Assurance Section, Region 4 SEDS/MTSB.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Semi-volatile Extractable Organic Compounds

The laboratory scored within warning limits for all spiked analytes in the PES except for 2,4-dichlorophenol, anthracene, and benzo(a)anthracene which were all scored as warning low. Any positive detects for these compounds were qualified "J" (CLP25), and any non-detects were qualified "R" (CLP25).

The percent recoveries of the DMC 4-chloroaniline-d4 was within the quality control limits established by the method and less than 10% for samples C121007-01, 06, 07, 08, 09, 11, 12, 13, 15, 18, 23, 25, 28, 29, 30, 31, 32, 33, 36, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 54, 55, 58, 61, 62, 63, 65, 67, and 68. The compounds associated with this DMC, 4-chloroaniline, hexachlorocyclopentadiene, and 3, 3'-dichlorobenzidine were qualified "J" (QS-4) in each of these samples.

The laboratory reported zero percent recovery for the DMC 4-chloroaniline-d4 in samples C121007-14, 16, 17, 19, 20, 21, 26, 27, 38, and 50. For these samples, the compounds associated with this DMC, 4-chloroaniline, hexachlorocyclopentadiene, and 3, 3'-dichlorobenzidine were qualified "R" (QS-4).

The percent recoveries of the DMC 4,6-dinitro-2-methylphenol-d2 was within the quality control limits



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established by the method and less than 10% for samples C121007-04, 05, 06, 07, 09, 42, 49, and 62. The compound associated with this DMC, 4,6-dinitro-2-methylphenol was qualified "J" (QS-4) in each of these samples.

The percent recoveries of the DMC 4-methylphenol-d8 was within the quality control limits established by the method and less than 10% for sample C121007-26. The compounds associated with this DMC, 2-methylphenol, 4-methylphenol, 2,4-dimethylphenol were qualified "J" (QS-4) in this sample.

The percent recoveries of the DMC 4-methylphenol-d8 was less than the quality control limit established by the method and less than 10% for sample C121007-14. The compounds associated with this DMC, 2-methylphenol, 4-methylphenol, 2,4-dimethylphenol were qualified "R" (QS-4) in this sample.

Low DMC recoveries were observed in samples C121007-01, 03, 07, 11, 17, 19, 21, 40, 42, 43, and 50. All results associated with out of control DMCs were qualified "J" (QS-3) in these samples.

Internal standard area counts for chrysene-d12 and/or perylene were less than the quality control limit in samples C121007-20, 24, 25, 28, 29, and 30. The extracts were re-analyzed with similar results and low internal standard area counts observed suggesting a matrix effect. All results associated with out of control internal standards were qualified "J" (QI-1) in each of these samples.

The pyrene results were qualified "J" (QM-3) in samples C121007-38 and 63 due to poor precision in the matrix spike/ matrix spike duplicate (MS/MSD) performed for these two samples.

In the MS/MSD pair, the laboratory reported a low percent recovery for the compound 4-chloro-3-methylphenol for sample C121007-37. The non-detected result for this compound was qualified "UJ" (QM-1).

Due to matrix affects, the laboratory was required to dilute the sample extracts prior to the gel permeation cleanup procedure due to extract viscosity for samples C121007-02, 10, 22, 51, 56, 57, 59, and 60. As a result, the reporting limits for these samples are elevated even though all target analytes were present at less than the adjusted CRQL.

Pesticide Compounds

Pesticide results were "N,CLP12" qualified whenever the percent difference between analytical column results exceeds 25% but is less than 70%. Pesticide results were qualified "U" (CLP13) at a higher reporting limit whenever a peak was present within the retention time window established on both columns for that pesticide, but the percent difference exceeded 70%. Six spiked analytes to include: alpha-BHC, delta-BHC, gamma-BHC, heptachlor, dieldrin and alpha-chlordane in the PES had percent differences exceeding 25%. Higher percent differences with the attached "N" qualifier may be indicative of a false positive result. Conversely, higher percent differences leading to "U" qualification could potentially be a false negative due



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Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

to a coelution affecting only one column.

The dieldrin and 4,4'-DDT results in sample C121007-38, and the 4,4'-DDT result in sample C121007-37 were qualified "J" (QM-3) due to poor precision observed in the MS/MSD performed for these samples.

GC/MS confirmed the presence of 4,4'-DDE in sample C121007-04 and dieldrin in sample C121007-44 and both of these results were qualified "D-1".

Due to matrix affects, the laboratory was required to dilute the sample extracts prior to the gel permeation cleanup procedure due to extract viscosity for samples C121007-02 and 22. As a result, the reporting limits for these samples are elevated even though all target analytes were present at less than the adjusted CRQL.

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

cc: Nardina Turner



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

| Sample ID | Laboratory ID | MD# | D# | Matrix | Date Collected |
|-----------|---------------|-----|------|-----------------|----------------|
| BC01SF | C121007-01 | | 6N51 | Surface Soil | 2/15/12 12:50 |
| BC02SB | C121007-02 | | 6N53 | Subsurface Soil | 2/15/12 13:25 |
| BC02SF | C121007-03 | | 6N54 | Surface Soil | 2/15/12 13:10 |
| BC03SF | C121007-04 | | 6N55 | Surface Soil | 2/15/12 14:00 |
| BC04SF | C121007-05 | | 6N56 | Surface Soil | 2/15/12 14:20 |
| DH1385SF | C121007-06 | | 6N11 | Surface Soil | 2/14/12 10:30 |
| DH1389SF | C121007-07 | | 6N12 | Surface Soil | 2/14/12 10:00 |
| SF1338SF | C121007-08 | | 6N59 | Surface Soil | 2/14/12 11:35 |
| SF1340SF | C121007-09 | | 6N13 | Surface Soil | 2/14/12 09:50 |
| SF1340SFD | C121007-10 | | 6N58 | Surface Soil | 2/14/12 10:35 |
| SL1700SF | C121007-11 | | 6N14 | Surface Soil | 2/15/12 10:10 |
| SL1701SF | C121007-12 | | 6N15 | Surface Soil | 2/15/12 08:55 |
| SL1701SFS | C121007-13 | | 6N77 | Surface Soil | 2/15/12 08:55 |
| SL1701SFX | C121007-14 | | 6N78 | Surface Soil | 2/15/12 09:18 |
| SL1702SF | C121007-15 | | 6N16 | Surface Soil | 2/15/12 10:33 |
| SL1703SF | C121007-16 | | 6N17 | Surface Soil | 2/15/12 09:38 |
| SL1708SF | C121007-17 | | 6N18 | Surface Soil | 2/15/12 10:50 |
| SL1710SF | C121007-18 | | 6N72 | Surface Soil | 2/15/12 12:17 |
| SL1712SF | C121007-19 | | 6N73 | Surface Soil | 2/15/12 12:40 |
| SL1714SF | C121007-20 | | 6N19 | Surface Soil | 2/15/12 13:00 |
| SL1716SF | C121007-21 | | 6N20 | Surface Soil | 2/15/12 13:17 |
| SL1718SF | C121007-22 | | 6N50 | Surface Soil | 2/15/12 13:33 |
| SL1720SF | C121007-23 | | 6N74 | Surface Soil | 2/15/12 13:50 |
| SL1722SF | C121007-24 | | 6N21 | Surface Soil | 2/15/12 10:15 |
| SL1724SF | C121007-25 | | 6N22 | Surface Soil | 2/15/12 09:55 |
| SL1726SF | C121007-26 | | 6N23 | Surface Soil | 2/15/12 09:20 |
| SL1726SFS | C121007-27 | | 6N76 | Surface Soil | 2/15/12 09:20 |
| SL1728SF | C121007-28 | | 6N24 | Surface Soil | 2/15/12 09:00 |
| SL1732SF | C121007-29 | | 6N25 | Surface Soil | 2/14/12 17:10 |
| SL1734SF | C121007-30 | | 6N26 | Surface Soil | 2/14/12 16:45 |
| SL1736SF | C121007-31 | | 6N27 | Surface Soil | 2/14/12 16:15 |
| SL1740SF | C121007-32 | | 6N28 | Surface Soil | 2/14/12 14:30 |
| SL1740SFD | C121007-33 | | 6N63 | Surface Soil | 2/14/12 14:40 |
| SL1742SF | C121007-34 | | 6N29 | Surface Soil | 2/14/12 14:05 |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

| | | | | |
|-----------|------------|------|--------------|---------------|
| SL1742SFX | C121007-35 | 6N66 | Surface Soil | 2/14/12 13:45 |
| SL1748SF | C121007-36 | 6N30 | Surface Soil | 2/14/12 12:15 |
| SL1750SF | C121007-37 | 6N61 | Surface Soil | 2/14/12 12:00 |
| SL1752SF | C121007-38 | 6N57 | Surface Soil | 2/14/12 11:00 |
| WA1518SF | C121007-39 | 6N31 | Surface Soil | 2/14/12 13:10 |
| WA1518SFX | C121007-40 | 6N64 | Surface Soil | 2/14/12 13:35 |
| WA1520SF | C121007-41 | 6N32 | Surface Soil | 2/14/12 14:05 |
| WA1526SF | C121007-42 | 6N65 | Surface Soil | 2/14/12 14:35 |
| WA1534SF | C121007-43 | 6N70 | Surface Soil | 2/15/12 08:55 |
| WA1602SF | C121007-44 | 6N33 | Surface Soil | 2/14/12 15:40 |
| WA1606SF | C121007-45 | 6N34 | Surface Soil | 2/14/12 16:25 |
| WA1608SF | C121007-46 | 6N69 | Surface Soil | 2/14/12 16:50 |
| WA1610SF | C121007-47 | 6N35 | Surface Soil | 2/15/12 10:00 |
| WA1610SFX | C121007-48 | 6N75 | Surface Soil | 2/15/12 10:00 |
| WA1614SF | C121007-49 | 6N36 | Surface Soil | 2/14/12 17:15 |
| WA1616SF | C121007-50 | 6N37 | Surface Soil | 2/15/12 11:00 |
| WA1618SF | C121007-51 | 6N71 | Surface Soil | 2/15/12 10:40 |
| WA1620SF | C121007-52 | 6N38 | Surface Soil | 2/15/12 11:30 |
| WA1620SFS | C121007-53 | 6N83 | Surface Soil | 2/15/12 11:35 |
| WA1624SF | C121007-54 | 6N39 | Surface Soil | 2/15/12 12:00 |
| WA1626SF | C121007-55 | 6N40 | Surface Soil | 2/14/12 17:11 |
| WA1702SF | C121007-56 | 6N41 | Surface Soil | 2/14/12 14:50 |
| WA1702SFD | C121007-57 | 6N67 | Surface Soil | 2/14/12 15:05 |
| WA1702SFX | C121007-58 | 6N68 | Surface Soil | 2/14/12 15:25 |
| WA1704SF | C121007-59 | 6N42 | Surface Soil | 2/14/12 15:45 |
| WA1712SF | C121007-60 | 6N43 | Surface Soil | 2/14/12 16:18 |
| WA1714SF | C121007-61 | 6N44 | Surface Soil | 2/14/12 13:50 |
| WA1716SF | C121007-62 | 6N45 | Surface Soil | 2/14/12 13:34 |
| WA1716SFX | C121007-63 | 6N62 | Surface Soil | 2/14/12 13:34 |
| WA1722SF | C121007-64 | 6N60 | Surface Soil | 2/14/12 12:11 |
| WA1728SF | C121007-65 | 6N46 | Surface Soil | 2/14/12 11:48 |
| WA1732SF | C121007-66 | 6N47 | Surface Soil | 2/14/12 10:24 |
| WA1734SF | C121007-67 | 6N48 | Surface Soil | 2/14/12 09:52 |
| WA1740SF | C121007-68 | 6N49 | Surface Soil | 2/14/12 11:15 |



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DATA QUALIFIER DEFINITIONS

| | |
|-------|--|
| U | The analyte was not detected at or above the reporting limit. |
| CLP01 | Concentration reported is less than the lowest standard on calibration curve |
| CLP15 | TIC Results Reported as Identified by Lab - IDs Not Verified |
| CLP16 | Initial Calibration Response Erratic |
| CLP25 | PE sample recovery scored as warning-low. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| N | There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. |
| NJ | Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value. |
| QC-1 | Analyte concentration low in continuing calibration verification standard |
| QI-1 | Internal standard was outside of method control limits. |
| QM-1 | Matrix Spike Recovery less than method control limits |
| QM-3 | Matrix Spike Precision outside method control limits |
| QS-3 | Surrogate recovery is lower than established control limits. |
| QS-4 | Surrogate recovery less than 10% |
| R | The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable. |

ACRONYMS AND ABBREVIATIONS

| | |
|-----|---|
| CAS | Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory. |
| MDL | Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero. |
| MRL | Minimum Reporting Limit - 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. |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC01SF

Lab ID: C121007-01

MD No:

Station ID: BC01

Matrix: Surface Soil

D No: 6N51 DATAC

Date Collected: 2/15/12 12:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 28 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 450 | U, J, CLP16 | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 450 | U | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 100 | J, CLP01 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U, J, QS-4 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 230 | U, J, QS-4, CLP16 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 450 | U, J, QC-1 | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 450 | U | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC01SF

Lab ID: C121007-01

MD No:

Station ID: BC01

Matrix: Surface Soil

D No: 6N51 DATAC

Date Collected: 2/15/12 12:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 39 | J, CLP01 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 63 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 210 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 150 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 300 | J, QS-3 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 29 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 92 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 27 | J, CLP01 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 230 | J, CLP01 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 30 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 40 | J, CLP01, CLP16 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC01SF

Lab ID: C121007-01

MD No:

Station ID: BC01

Matrix: Surface Soil

D No: 6N51 DATAC

Date Collected: 2/15/12 12:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 206-44-0 | Fluoranthene | 340 | | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 230 | U, J, QS-4, CLP16 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 110 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 450 | U, J, CLP16 | ug/kg dry | 450 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 210 | J, CLP01 | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 230 | U | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 400 | | ug/kg dry | 230 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SB

Lab ID: C121007-02

MD No:

Station ID: BC02

Matrix: Subsurface Soil

D No: 6N53 DATAC

Date Collected: 2/15/12 13:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 16 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 1900 | U, J, CLP25 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 3700 | U, J, CLP16 | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 3700 | U | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 3700 | U | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 3700 | U | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 1900 | U, J, CLP16 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1900 | U, J, CLP16 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 3700 | U, J, QC-1 | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 3700 | U | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SB

Lab ID: C121007-02

MD No:

Station ID: BC02

Matrix: Subsurface Soil

D No: 6N53 DATAC

Date Collected: 2/15/12 13:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 1900 | U, J, CLP25 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 590 | J, CLP01, CLP25 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 570 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 810 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 310 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 200 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 560 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 1900 | U, J, CLP16 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1100 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 1900 | U, J, CLP16 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SB

Lab ID: C121007-02

MD No:

Station ID: BC02

Matrix: Subsurface Soil

D No: 6N53 DATAC

Date Collected: 2/15/12 13:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 1900 | U, J, CLP16 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 480 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 3700 | U, J, CLP16 | ug/kg dry | 3700 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 870 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 1900 | U | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1300 | J, CLP01 | ug/kg dry | 1900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 107-41-5 | Hexylene glycol | 30000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 4000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SF

Lab ID: C121007-03

MD No:

Station ID: BC02

Matrix: Surface Soil

D No: 6N54 DATAC

Date Collected: 2/15/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 17 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 190 | U, J, CLP25 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 380 | U, J, CLP16 | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 58 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 190 | U, J, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 190 | U, J, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 380 | U, J, QC-1 | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SF

Lab ID: C121007-03

MD No:

Station ID: BC02

Matrix: Surface Soil

D No: 6N54 DATAC

Date Collected: 2/15/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 37 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 45 | J, CLP01, CLP25 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 190 | J, CLP01, CLP25 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 150 | J, CLP01, QS-3 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 280 | J, QS-3 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 32 | J, CLP01, QS-3 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 82 | J, CLP01, QS-3 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 190 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 29 | J, QS-3, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 25 | J, CLP01, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC02SF

Lab ID: C121007-03

MD No:

Station ID: BC02

Matrix: Surface Soil

D No: 6N54 DATAC

Date Collected: 2/15/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|----------------|-----------|-----|----------|----------|---------------|
| 206-44-0 | Fluoranthene | 260 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 190 | U, J, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 190 | U, J, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 98 | J, QS-3, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 380 | U, J, CLP16 | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 130 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 320 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 3000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC03SF

Lab ID: C121007-04

MD No:

Station ID: BC03

Matrix: Surface Soil

D No: 6N55 DATAC

Date Collected: 2/15/12 14:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 7.7 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 180 | U, J, CLP25 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 340 | U, J, CLP16 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 340 | U, J, QS-4 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 340 | U | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 340 | U | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 180 | U, J, CLP16 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 180 | U, J, CLP16 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 340 | U, J, QC-1 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 340 | U | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC03SF

Lab ID: C121007-04

MD No:

Station ID: BC03

Matrix: Surface Soil

D No: 6N55 DATAC

Date Collected: 2/15/12 14:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 40 | J, CLP01, CLP25 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 180 | J, CLP25 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 150 | J, CLP01 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 260 | | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 35 | J, CLP01 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 90 | J, CLP01 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 320 | | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 46 | J, CLP01 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 210 | | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 26 | J, CLP01 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 180 | U, J, CLP16 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 370 | | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 180 | U, J, CLP16 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC03SF

Lab ID: C121007-04

MD No:

Station ID: BC03

Matrix: Surface Soil

D No: 6N55 DATAC

Date Collected: 2/15/12 14:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 180 | U, J, CLP16 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 99 | J, CLP01 | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 340 | U, J, CLP16 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 310 | | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 180 | U | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 410 | | ug/kg dry | 180 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 107-41-5 | Hexylene glycol | 2000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 600 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC04SF

Lab ID: C121007-05

MD No:

Station ID: BC04

Matrix: Surface Soil

D No: 6N56 DATAC

Date Collected: 2/15/12 14:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 6.5 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 170 | U, J, CLP25 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 340 | U, J, CLP16 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 340 | U, J, QS-4 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 340 | U | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 340 | U | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 170 | U, J, CLP16 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 170 | U, J, CLP16 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 340 | U, J, QC-1 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 340 | U | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC04SF

Lab ID: C121007-05

MD No:

Station ID: BC04

Matrix: Surface Soil

D No: 6N56 DATAC

Date Collected: 2/15/12 14:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 170 | U, J, CLP25 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 170 | U, J, CLP25 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 170 | U, J, CLP16 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 170 | U, J, CLP16 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 170 | U, J, CLP16 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: BC04SF

Lab ID: C121007-05

MD No:

Station ID: BC04

Matrix: Surface Soil

D No: 6N56 DATAC

Date Collected: 2/15/12 14:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| 67-72-1 | Hexachloroethane | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 340 | U, J, CLP16 | ug/kg dry | 340 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 19 | J, CLP01 | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 170 | U | ug/kg dry | 170 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|---------------|--|-----------|--|---------|---------|---------------|
| R4-6500 | Petroleum Product: | N, CLP15 | | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 4000 J, CLP15 | | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1385SF

Lab ID: C121007-06

MD No:

Station ID: DH1385

Matrix: Surface Soil

D No: 6N11 DATAC

Date Collected: 2/14/12 10:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U, J, QS-4 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 59 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1385SF

Lab ID: C121007-06

MD No:

Station ID: DH1385

Matrix: Surface Soil

D No: 6N11 DATAC

Date Collected: 2/14/12 10:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 83 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 86 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 180 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 32 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 56 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1385SF

Lab ID: C121007-06

MD No:

Station ID: DH1385

Matrix: Surface Soil

D No: 6N11 DATAC

Date Collected: 2/14/12 10:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QS-4, CLP16, QC-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 66 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 92 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 190 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|-------|-----------|-----------|--|---------|---------|---------------|
| 83-47-6 | .gamma.-Sitosterol | 900 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1389SF

Lab ID: C121007-07

MD No:

Station ID: DH1389

Matrix: Surface Soil

D No: 6N12 DATAC

Date Collected: 2/14/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, QC-1, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U, J, QS-4 | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QC-1, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U, J, QC-1 | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1389SF

Lab ID: C121007-07

MD No:

Station ID: DH1389

Matrix: Surface Soil

D No: 6N12 DATAC

Date Collected: 2/14/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 120 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 100 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 180 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 45 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 42 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 770 | | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 130 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U, J, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 35 | J, CLP01, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: DH1389SF

Lab ID: C121007-07

MD No:

Station ID: DH1389

Matrix: Surface Soil

D No: 6N12 DATAC

Date Collected: 2/14/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 200 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 87 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, QC-1, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 180 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 240 | | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 22513-81-1 | 1,22-Docosanediol | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1338SF

Lab ID: C121007-08

MD No:

Station ID: SF1338

Matrix: Surface Soil

D No: 6N59 DATAC

Date Collected: 2/14/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 26 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 440 | U, J, CLP16 | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 440 | U | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 34 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 440 | U | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 440 | U | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 440 | U, J, QC-1 | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 440 | U | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1338SF

Lab ID: C121007-08

MD No:

Station ID: SF1338

Matrix: Surface Soil

D No: 6N59 DATAC

Date Collected: 2/14/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 150 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 150 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 260 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 26 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 80 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 170 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 23 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 290 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1338SF

Lab ID: C121007-08

MD No:

Station ID: SF1338

Matrix: Surface Soil

D No: 6N59 DATAC

Date Collected: 2/14/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 88 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 440 | U, J, CLP16 | ug/kg dry | 440 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 140 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 340 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|-----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 192-97-2 | Benzo[e]pyrene | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7683-64-9 | Squalene | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 4000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SF

Lab ID: C121007-09

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N13 DATAC

Date Collected: 2/14/12 9:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 20 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 410 | U, J, QC-1, CLP16 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 410 | U, J, QS-4 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QC-1, QS-4 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 410 | U, J, QC-1 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SF

Lab ID: C121007-09

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N13 DATAC

Date Collected: 2/14/12 9:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 23 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 200 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 180 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 290 | | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 55 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 110 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 22 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 230 | | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 32 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 450 | | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SF

Lab ID: C121007-09

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N13 DATAC

Date Collected: 2/14/12 9:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 140 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 410 | U, J, QC-1, CLP16 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 180 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 470 | | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SFD

Lab ID: C121007-10

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N58 DATAC

Date Collected: 2/14/12 10:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 26 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2300 | U, J, CLP25 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4400 | U, J, CLP16 | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4400 | U | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2300 | U, J, CLP16 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2300 | U, J, CLP16 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4400 | U, J, QC-1 | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4400 | U | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SFD

Lab ID: C121007-10

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N58 DATAC

Date Collected: 2/14/12 10:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2300 | U, J, CLP25 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 800 | J, CLP01, CLP25 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 700 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 980 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 290 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 320 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 880 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2300 | U, J, CLP16 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1500 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2300 | U, J, CLP16 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SF1340SFD

Lab ID: C121007-10

MD No:

Station ID: SF1340

Matrix: Surface Soil

D No: 6N58 DATAC

Date Collected: 2/14/12 10:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2300 | U, J, CLP16 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 610 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4400 | U, J, CLP16 | ug/kg dry | 4400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 700 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2300 | U | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1900 | J, CLP01 | ug/kg dry | 2300 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 107-41-5 | Hexylene glycol | 8000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1700SF

Lab ID: C121007-11

MD No:

Station ID: SL1700

Matrix: Surface Soil

D No: 6N14 DATAC

Date Collected: 2/15/12 10:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, QC-1, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 23 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QC-1, QS-4 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1700SF

Lab ID: C121007-11

MD No:

Station ID: SL1700

Matrix: Surface Soil

D No: 6N14 DATAC

Date Collected: 2/15/12 10:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 25 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 140 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 140 | J, QS-3, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 210 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 26 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 60 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 32 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 160 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 24 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1700SF

Lab ID: C121007-11

MD No:

Station ID: SL1700

Matrix: Surface Soil

D No: 6N14 DATAC

Date Collected: 2/15/12 10:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 290 | | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 91 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, QC-1, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 200 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 330 | | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 83-46-5 | .beta.-Sitosterol | 800 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SF

Lab ID: C121007-12

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N15 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, QC-1, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QC-1, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SF

Lab ID: C121007-12

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N15 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 22 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 23 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 110 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 110 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 190 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 38 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 61 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 170 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SF

Lab ID: C121007-12

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N15 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 63 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, QC-1, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 210 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 10000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFS

Lab ID: C121007-13

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N77 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 19 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 410 | U, J, CLP16 | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 24 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFS

Lab ID: C121007-13

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N77 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 100 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 93 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 160 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 49 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 130 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 170 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFS

Lab ID: C121007-13

MD No:

Station ID: SL1701

Matrix: Surface Soil

D No: 6N77 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 43 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 410 | U, J, CLP16 | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 100 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 190 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|----------------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-47-6 | .gamma.-Sitosterol | 400 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 481-39-0 | 1,4-Naphthalenedione, 5-hydroxy- | 500 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFX

Lab ID: C121007-14

MD No:

Station ID: SL1701X

Matrix: Surface Soil

D No: 6N78 DATAC

Date Collected: 2/15/12 9:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U, R, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U, R, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U, R, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, R, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, R, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFX

Lab ID: C121007-14

MD No:

Station ID: SL1701X

Matrix: Surface Soil

D No: 6N78 DATAC

Date Collected: 2/15/12 9:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 71 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 70 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 110 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 34 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 96 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 120 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1701SFX

Lab ID: C121007-14

MD No:

Station ID: SL1701X

Matrix: Surface Soil

D No: 6N78 DATAC

Date Collected: 2/15/12 9:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, R, QS-4, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 34 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 66 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 120 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 1000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1702SF

Lab ID: C121007-15

MD No:

Station ID: SL1702

Matrix: Surface Soil

D No: 6N16 DATAC

Date Collected: 2/15/12 10:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 26 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 440 | U, J, QC-1, CLP16 | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 25 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U, J, QC-1, QS-4 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 230 | U, J, QS-4, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 440 | U, J, QC-1 | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1702SF

Lab ID: C121007-15

MD No:

Station ID: SL1702

Matrix: Surface Soil

D No: 6N16 DATAC

Date Collected: 2/15/12 10:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 75 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 71 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 120 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 24 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 41 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 83 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 120 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1702SF

Lab ID: C121007-15

MD No:

Station ID: SL1702

Matrix: Surface Soil

D No: 6N16 DATAC

Date Collected: 2/15/12 10:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 230 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 45 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 440 | U, J, QC-1, CLP16 | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 96 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 160 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7683-64-9 | Squalene | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1703SF

Lab ID: C121007-16

MD No:

Station ID: SL1703

Matrix: Surface Soil

D No: 6N17 DATAC

Date Collected: 2/15/12 9:38

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, R, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U, J, QC-1 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1703SF

Lab ID: C121007-16

MD No:

Station ID: SL1703

Matrix: Surface Soil

D No: 6N17 DATAC

Date Collected: 2/15/12 9:38

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 75 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 82 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 140 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 45 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 46 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 96 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 110 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1703SF

Lab ID: C121007-16

MD No:

Station ID: SL1703

Matrix: Surface Soil

D No: 6N17 DATAC

Date Collected: 2/15/12 9:38

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, R, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 71 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 78 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 150 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|---------------------------------|-------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 600 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 301-02-0 | 9-Octadecenamide, (Z)- | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1708SF

Lab ID: C121007-17

MD No:

Station ID: SL1708

Matrix: Surface Soil

D No: 6N18 DATAC

Date Collected: 2/15/12 10:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 23 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, R, QS-4 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, R, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1708SF

Lab ID: C121007-17

MD No:

Station ID: SL1708

Matrix: Surface Soil

D No: 6N18 DATAC

Date Collected: 2/15/12 10:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 23 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 150 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 140 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 250 | J, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 51 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 76 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 180 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 22 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 240 | | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1708SF

Lab ID: C121007-17

MD No:

Station ID: SL1708

Matrix: Surface Soil

D No: 6N18 DATAC

Date Collected: 2/15/12 10:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|--|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, R, QC-1, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 80 | J, CLP01, QS-3 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 110 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 290 | | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 10000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1710SF

Lab ID: C121007-18

MD No:

Station ID: SL1710

Matrix: Surface Soil

D No: 6N72 DATAC

Date Collected: 2/15/12 12:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 33 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1710SF

Lab ID: C121007-18

MD No:

Station ID: SL1710

Matrix: Surface Soil

D No: 6N72 DATAC

Date Collected: 2/15/12 12:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 130 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 110 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 200 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 70 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 440 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 140 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 190 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1710SF

Lab ID: C121007-18

MD No:

Station ID: SL1710

Matrix: Surface Soil

D No: 6N72 DATAC

Date Collected: 2/15/12 12:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 78 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16, QC-1 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 110 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 220 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|-----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 107-41-5 | Hexylene glycol | 5000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7683-64-9 | Squalene | 3000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 544-63-8 | Tetradecanoic Acid | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1712SF

Lab ID: C121007-19

MD No:

Station ID: SL1712

Matrix: Surface Soil

D No: 6N73 DATAC

Date Collected: 2/15/12 12:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 39 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1712SF

Lab ID: C121007-19

MD No:

Station ID: SL1712

Matrix: Surface Soil

D No: 6N73 DATAC

Date Collected: 2/15/12 12:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 110 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 97 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 160 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 220 | U, J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 46 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 330 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 140 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U, J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 220 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1712SF

Lab ID: C121007-19

MD No:

Station ID: SL1712

Matrix: Surface Soil

D No: 6N73 DATAC

Date Collected: 2/15/12 12:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, R, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 51 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 130 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 210 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 83-46-5 | .beta.-Sitosterol | 400 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1714SF

Lab ID: C121007-20

MD No:

Station ID: SL1714

Matrix: Surface Soil

D No: 6N19 DATAC

Date Collected: 2/15/12 13:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 30 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, R, QI-1, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, R, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U, J, QC-1 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1714SF

Lab ID: C121007-20

MD No:

Station ID: SL1714

Matrix: Surface Soil

D No: 6N19 DATAC

Date Collected: 2/15/12 13:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------------|-----------|-----|----------|----------|---------------|
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 33 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 220 | J, CLP01, QI-1, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 230 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 370 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 91 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 130 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 400 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 28 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 230 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 31 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 970 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 290 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1714SF

Lab ID: C121007-20

MD No:

Station ID: SL1714

Matrix: Surface Soil

D No: 6N19 DATAC

Date Collected: 2/15/12 13:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, R, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 94 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 150 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 410 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 301-02-0 | 9-Octadecenamide, (Z)- | 10000 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1716SF

Lab ID: C121007-21

MD No:

Station ID: SL1716

Matrix: Surface Soil

D No: 6N20 DATAC

Date Collected: 2/15/12 13:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 40 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, R, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1716SF

Lab ID: C121007-21

MD No:

Station ID: SL1716

Matrix: Surface Soil

D No: 6N20 DATAC

Date Collected: 2/15/12 13:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 100 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 99 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 170 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 38 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 43 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U, J, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 140 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1716SF

Lab ID: C121007-21

MD No:

Station ID: SL1716

Matrix: Surface Soil

D No: 6N20 DATAC

Date Collected: 2/15/12 13:17

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, R, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 57 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 99 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 180 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 10000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1718SF

Lab ID: C121007-22

MD No:

Station ID: SL1718

Matrix: Surface Soil

D No: 6N50 DATAC

Date Collected: 2/15/12 13:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4100 | U, J, CLP16 | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4100 | U, J, QC-1 | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1718SF

Lab ID: C121007-22

MD No:

Station ID: SL1718

Matrix: Surface Soil

D No: 6N50 DATAC

Date Collected: 2/15/12 13:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1718SF

Lab ID: C121007-22

MD No:

Station ID: SL1718

Matrix: Surface Soil

D No: 6N50 DATAC

Date Collected: 2/15/12 13:33

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 67-72-1 | Hexachloroethane | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4100 | U, J, CLP16 | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 6000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1720SF

Lab ID: C121007-23

MD No:

Station ID: SL1720

Matrix: Surface Soil

D No: 6N74 DATAC

Date Collected: 2/15/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 21 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 43 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1720SF

Lab ID: C121007-23

MD No:

Station ID: SL1720

Matrix: Surface Soil

D No: 6N74 DATAC

Date Collected: 2/15/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 72 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 66 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 110 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 33 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 240 | | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 91 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 110 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1720SF

Lab ID: C121007-23

MD No:

Station ID: SL1720

Matrix: Surface Soil

D No: 6N74 DATAC

Date Collected: 2/15/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 32 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 89 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 120 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-47-6 | .gamma.-Sitosterol | 400 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1722SF

Lab ID: C121007-24

MD No:

Station ID: SL1722

Matrix: Surface Soil

D No: 6N21 DATAC

Date Collected: 2/15/12 10:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4000 | U, J, CLP16 | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4000 | U | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4000 | U | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4000 | U | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4000 | U, J, QC-1 | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4000 | U | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1722SF

Lab ID: C121007-24

MD No:

Station ID: SL1722

Matrix: Surface Soil

D No: 6N21 DATAC

Date Collected: 2/15/12 10:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 2100 | J, CLP01, QI-1, CLP25 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 250 | J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 29000 | J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 16000 | J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1722SF

Lab ID: C121007-24

MD No:

Station ID: SL1722

Matrix: Surface Soil

D No: 6N21 DATAC

Date Collected: 2/15/12 10:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2100 | U, J, QC-1, CLP16 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 2100 | U, J, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4000 | U, J, CLP16 | ug/kg dry | 4000 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2100 | U | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 240 | J, CLP01, QI-1 | ug/kg dry | 2100 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 301-02-0 | 9-Octadecenamide, (Z)- | 2000 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1724SF

Lab ID: C121007-25

MD No:

Station ID: SL1724

Matrix: Surface Soil

D No: 6N22 DATAC

Date Collected: 2/15/12 9:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 58 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QI-1, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U, J, QC-1 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1724SF

Lab ID: C121007-25

MD No:

Station ID: SL1724

Matrix: Surface Soil

D No: 6N22 DATAC

Date Collected: 2/15/12 9:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------------|-----------|-----|----------|----------|---------------|
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 32 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 150 | J, CLP01, QI-1, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 140 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 280 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 44 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 70 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 460 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 39 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 180 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 290 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1724SF

Lab ID: C121007-25

MD No:

Station ID: SL1724

Matrix: Surface Soil

D No: 6N22 DATAC

Date Collected: 2/15/12 9:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 72 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 250 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 340 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 57156-97-5 | 12,15-Octadecadienoic acid, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 112-62-9 | 9-Octadecenoic acid (Z)-, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 57-88-5 | Cholesterol | 1000 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 10000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SF

Lab ID: C121007-26

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N23 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 52 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, R, CLP16, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SF

Lab ID: C121007-26

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N23 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 44 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 210 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 200 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 350 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 52 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 99 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 410 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 36 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 240 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 29 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 23 | J, CLP01, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 370 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SF

Lab ID: C121007-26

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N23 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|--|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, R, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 98 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 310 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 460 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 112-39-0 | Hexadecanoic acid, methyl ester | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SFS

Lab ID: C121007-27

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N76 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 83 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, R, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SFS

Lab ID: C121007-27

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N76 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 94 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 410 | J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 320 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 570 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 54 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 130 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 6300 | | ug/kg dry | 1100 | 2/21/12 | 2/28/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 120 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 540 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 43 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 53 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 910 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 46 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1726SFS

Lab ID: C121007-27

MD No:

Station ID: SL1726

Matrix: Surface Soil

D No: 6N76 DATAC

Date Collected: 2/15/12 9:20

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, R, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 130 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 790 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 840 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|------------|---|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 500 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-85-4 | 1,4-Cyclohexadiene, 1-methyl-4-(1-methylethyl)- | 400 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 18992-03-5 | Bromoacetic acid, octadecyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 470-82-6 | Eucalyptol | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 2531-84-2 | Phenanthrene, 2-methyl- | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1728SF

Lab ID: C121007-28

MD No:

Station ID: SL1728

Matrix: Surface Soil

D No: 6N24 DATAC

Date Collected: 2/15/12 9:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 31 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, CLP16, QS-4 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1728SF

Lab ID: C121007-28

MD No:

Station ID: SL1728

Matrix: Surface Soil

D No: 6N24 DATAC

Date Collected: 2/15/12 9:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 35 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 180 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 170 | J, CLP01, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 330 | J, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 52 | J, CLP01, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 95 | J, CLP01, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 260 | | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 30 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 190 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 26 | J, CLP01, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U, J, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 340 | | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1728SF

Lab ID: C121007-28

MD No:

Station ID: SL1728

Matrix: Surface Soil

D No: 6N24 DATAC

Date Collected: 2/15/12 9:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 87 | J, CLP01, QI-1 | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 230 | | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 410 | | ug/kg dry | 210 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|------------|---------------------------------|-------|-----------|-----------|--|---------|---------|---------------|
| 83-47-6 | .gamma.-Sitosterol | 900 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56221-91-1 | 13-Tetradecen-1-ol acetate | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7683-64-9 | Squalene | 400 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1732SF

Lab ID: C121007-29

MD No:

Station ID: SL1732

Matrix: Surface Soil

D No: 6N25 DATAC

Date Collected: 2/14/12 17:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 27 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QI-1, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1732SF

Lab ID: C121007-29

MD No:

Station ID: SL1732

Matrix: Surface Soil

D No: 6N25 DATAC

Date Collected: 2/14/12 17:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------------|-----------|-----|----------|----------|---------------|
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 25 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 27 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 180 | J, CLP01, QI-1, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 200 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 310 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 59 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 110 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 200 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 28 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 270 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1732SF

Lab ID: C121007-29

MD No:

Station ID: SL1732

Matrix: Surface Soil

D No: 6N25 DATAC

Date Collected: 2/14/12 17:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|--|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 100 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 160 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 400 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1734SF

Lab ID: C121007-30

MD No:

Station ID: SL1734

Matrix: Surface Soil

D No: 6N26 DATAC

Date Collected: 2/14/12 16:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/18/12 | 2/23/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 31 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1734SF

Lab ID: C121007-30

MD No:

Station ID: SL1734

Matrix: Surface Soil

D No: 6N26 DATAC

Date Collected: 2/14/12 16:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 25 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 180 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 870 | J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 570 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 1100 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 130 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 370 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 110 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 910 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 68 | J, CLP01, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U, J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 2000 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 23 | J, CLP01, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1734SF

Lab ID: C121007-30

MD No:

Station ID: SL1734

Matrix: Surface Soil

D No: 6N26 DATAC

Date Collected: 2/14/12 16:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 240 | J, QI-1 | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 740 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 2300 | | ug/kg dry | 220 | 2/18/12 | 2/23/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|---------------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 84-11-7 | 9,10-Phenanthrenedione | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 301-02-0 | 9-Octadecenamide, (Z)- | 5000 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 3000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/23/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1736SF

Lab ID: C121007-31

MD No:

Station ID: SL1736

Matrix: Surface Soil

D No: 6N27 DATAC

Date Collected: 2/14/12 16:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, QC-1, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 87 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QC-1, QS-4 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1736SF

Lab ID: C121007-31

MD No:

Station ID: SL1736

Matrix: Surface Soil

D No: 6N27 DATAC

Date Collected: 2/14/12 16:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 22 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 110 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 97 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 170 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 30 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 60 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 27 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 120 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 33 | J, CLP01, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 180 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1736SF

Lab ID: C121007-31

MD No:

Station ID: SL1736

Matrix: Surface Soil

D No: 6N27 DATAC

Date Collected: 2/14/12 16:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 52 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, QC-1, CLP16 | ug/kg dry | 420 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 190 | J, CLP01 | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 220 | | ug/kg dry | 220 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|-----------|--------------------------------------|-------|-----------|-----------|--|---------|---------|---------------|
| 7494-34-0 | 26-Nor-5-cholesten-3.beta.-ol-25-one | 400 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SF

Lab ID: C121007-32

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N28 DATAC

Date Collected: 2/14/12 14:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 410 | U, J, QC-1, CLP16 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 68 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QC-1, QS-4 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 410 | U, J, QC-1 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SF

Lab ID: C121007-32

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N28 DATAC

Date Collected: 2/14/12 14:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 410 | U | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 91 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 86 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 160 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 24 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 44 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 110 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 23 | J, CLP01, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 150 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SF

Lab ID: C121007-32

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N28 DATAC

Date Collected: 2/14/12 14:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|---|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QC-1, QS-4, CLP16 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 46 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 410 | U, J, QC-1, CLP16 | ug/kg dry | 410 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 140 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 180 | J, CLP01 | ug/kg dry | 210 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 83-46-5 | .beta.-Sitosterol | 900 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1120-25-8 | 9-Hexadecenoic acid, methyl ester, (Z)- | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7683-64-9 | Squalene | 300 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SFD

Lab ID: C121007-33

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N63 DATAC

Date Collected: 2/14/12 14:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 21 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 56 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 400 | U, J, QC-1 | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SFD

Lab ID: C121007-33

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N63 DATAC

Date Collected: 2/14/12 14:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 25 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 140 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 130 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 220 | | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 79 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 25 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 160 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 22 | J, CLP01, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 240 | | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1740SFD

Lab ID: C121007-33

MD No:

Station ID: SL1740

Matrix: Surface Soil

D No: 6N63 DATAC

Date Collected: 2/14/12 14:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 67 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 210 | | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 310 | | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 107-41-5 | Hexylene glycol | 600 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 2435-85-0 | Pyrene, hexadecahydro- | 500 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 6000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SF

Lab ID: C121007-34

MD No:

Station ID: SL1742

Matrix: Surface Soil

D No: 6N29 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2200 | U, J, CLP25 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4200 | U, J, CLP16, QC-1 | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4200 | U | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4200 | U | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2200 | U, J, QC-1 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4200 | U | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4200 | U, J, QC-1 | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4200 | U | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SF

Lab ID: C121007-34

MD No:

Station ID: SL1742

Matrix: Surface Soil

D No: 6N29 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2200 | U, J, CLP25 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 940 | J, CLP01, CLP25 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 950 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 1600 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 400 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 480 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 960 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1800 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SF

Lab ID: C121007-34

MD No:

Station ID: SL1742

Matrix: Surface Soil

D No: 6N29 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2200 | U, J, CLP16, QC-1 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 530 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4200 | U, J, CLP16, QC-1 | ug/kg dry | 4200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 1100 | J, CLP01 | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2200 | U | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 2300 | | ug/kg dry | 2200 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 301-02-0 | 9-Octadecenamide, (Z)- | 6000 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SFX

Lab ID: C121007-35

MD No:

Station ID: SL1742X

Matrix: Surface Soil

D No: 6N66 DATAC

Date Collected: 2/14/12 13:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 20 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2000 | U, J, CLP25 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 3900 | U, J, CLP16 | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 3900 | U | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 3900 | U | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 3900 | U | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 3900 | U, J, QC-1 | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 3900 | U | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 360 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SFX

Lab ID: C121007-35

MD No:

Station ID: SL1742X

Matrix: Surface Soil

D No: 6N66 DATAC

Date Collected: 2/14/12 13:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 870 | J, CLP01, CLP25 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 2400 | J, CLP25 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 1900 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 3100 | | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 530 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 730 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 2500 | | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 350 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 5200 | | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 310 | J, CLP01, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1742SFX

Lab ID: C121007-35

MD No:

Station ID: SL1742X

Matrix: Surface Soil

D No: 6N66 DATAC

Date Collected: 2/14/12 13:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 930 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 3900 | U, J, CLP16 | ug/kg dry | 3900 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 4600 | | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 6600 | | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1748SF

Lab ID: C121007-36

MD No:

Station ID: SL1748

Matrix: Surface Soil

D No: 6N30 DATAC

Date Collected: 2/14/12 12:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 19 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 410 | U, J, CLP16 | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 410 | U | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 77 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 410 | U | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1748SF

Lab ID: C121007-36

MD No:

Station ID: SL1748

Matrix: Surface Soil

D No: 6N30 DATAC

Date Collected: 2/14/12 12:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 21 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 140 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 120 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 200 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 55 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 180 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 28 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 280 | | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1748SF

Lab ID: C121007-36

MD No:

Station ID: SL1748

Matrix: Surface Soil

D No: 6N30 DATAC

Date Collected: 2/14/12 12:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, CLP16, QS-4 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 57 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 410 | U, J, CLP16 | ug/kg dry | 410 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 190 | J, CLP01 | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 270 | | ug/kg dry | 210 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|--------------|--|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1000158-20-4 | 3-Butanone, 1,1-bis(4-chlorophenyl)-2,2-dimethyl | 400 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 1000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1750SF

Lab ID: C121007-37

MD No:

Station ID: SL1750

Matrix: Surface Soil

D No: 6N61 DATAC

Date Collected: 2/14/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 26 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2300 | U, J, CLP25 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4400 | U, J, CLP16 | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2300 | U, J, QM-1 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1750SF

Lab ID: C121007-37

MD No:

Station ID: SL1750

Matrix: Surface Soil

D No: 6N61 DATAC

Date Collected: 2/14/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2300 | U, J, CLP25 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 300 | J, CLP01, CLP25 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 370 | J, CLP01 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 33000 | | ug/kg dry | 4600 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 330 | J, CLP01 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 420 | J, CLP01 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1750SF

Lab ID: C121007-37

MD No:

Station ID: SL1750

Matrix: Surface Soil

D No: 6N61 DATAC

Date Collected: 2/14/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2300 | U, J, CLP16 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4400 | U, J, CLP16 | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 290 | J, CLP01 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2300 | U | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 530 | J, CLP01 | ug/kg dry | 2300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1752SF

Lab ID: C121007-38

MD No:

Station ID: SL1752

Matrix: Surface Soil

D No: 6N57 DATAC

Date Collected: 2/14/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 27 | | % | | 2/18/12 | 2/22/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 440 | U, J, QC-1, CLP16 | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 69 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U, R, QC-1, QS-4 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 230 | U, R, QS-4, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 440 | U, J, QC-1 | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1752SF

Lab ID: C121007-38

MD No:

Station ID: SL1752

Matrix: Surface Soil

D No: 6N57 DATAC

Date Collected: 2/14/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 100-02-7 | 4-Nitrophenol | 440 | U | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 208-96-8 | Acenaphthylene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 86 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 82 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 150 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 29 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 42 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 650 | | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 100 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 140 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 230 | U, J, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: SL1752SF

Lab ID: C121007-38

MD No:

Station ID: SL1752

Matrix: Surface Soil

D No: 6N57 DATAC

Date Collected: 2/14/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|--|---|---------|-------------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 230 | U, R, QC-1, QS-4, CLP16 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 57 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 440 | U, J, QC-1, CLP16 | ug/kg dry | 440 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 130 | J, CLP01 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 230 | U | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 160 | J, CLP01, QM-3 | ug/kg dry | 230 | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 1120-25-8 | 9-Hexadecenoic acid, methyl ester, (Z)- | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| 112-39-0 | Hexadecanoic acid, methyl ester | 200 | NJ, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 20000 | J, CLP15 | ug/kg dry | | 2/18/12 | 2/22/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SF

Lab ID: C121007-39

MD No:

Station ID: WA1518

Matrix: Surface Soil

D No: 6N31 DATAC

Date Collected: 2/14/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SF

Lab ID: C121007-39

MD No:

Station ID: WA1518

Matrix: Surface Soil

D No: 6N31 DATAC

Date Collected: 2/14/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 130 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 180 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 1000 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 850 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 1200 | | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 280 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 350 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 150 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 1200 | | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 130 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 2100 | | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SF

Lab ID: C121007-39

MD No:

Station ID: WA1518

Matrix: Surface Soil

D No: 6N31 DATAC

Date Collected: 2/14/12 13:10

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 410 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 1200 | | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 2100 | | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SFX

Lab ID: C121007-40

MD No:

Station ID: WA1518X

Matrix: Surface Soil

D No: 6N64 DATAC

Date Collected: 2/14/12 13:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 24 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SFX

Lab ID: C121007-40

MD No:

Station ID: WA1518X

Matrix: Surface Soil

D No: 6N64 DATAC

Date Collected: 2/14/12 13:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 54 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 110 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 580 | J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 450 | J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 750 | J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 55 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 260 | J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 78 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 550 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 64 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1100 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 25 | J, CLP01, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1518SFX

Lab ID: C121007-40

MD No:

Station ID: WA1518X

Matrix: Surface Soil

D No: 6N64 DATAC

Date Collected: 2/14/12 13:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 230 | J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 630 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1200 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 84-65-1 | 9,10-Anthracenedione | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 400 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 107-41-5 | Hexylene glycol | 20000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1520SF

Lab ID: C121007-41

MD No:

Station ID: WA1520

Matrix: Surface Soil

D No: 6N32 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1520SF

Lab ID: C121007-41

MD No:

Station ID: WA1520

Matrix: Surface Soil

D No: 6N32 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 62 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 61 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 110 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 33 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 87 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 150 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1520SF

Lab ID: C121007-41

MD No:

Station ID: WA1520

Matrix: Surface Soil

D No: 6N32 DATAC

Date Collected: 2/14/12 14:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 37 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 64 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 140 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 400 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 638-58-4 | Tetradecanamide | 200 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1526SF

Lab ID: C121007-42

MD No:

Station ID: WA1526

Matrix: Surface Soil

D No: 6N65 DATAC

Date Collected: 2/14/12 14:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 27 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U, J, QS-4 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 52 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U, J, QC-1 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1526SF

Lab ID: C121007-42

MD No:

Station ID: WA1526

Matrix: Surface Soil

D No: 6N65 DATAC

Date Collected: 2/14/12 14:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 140 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 110 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 180 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 24 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 49 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 600 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 150 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 24 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 260 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1526SF

Lab ID: C121007-42

MD No:

Station ID: WA1526

Matrix: Surface Soil

D No: 6N65 DATAC

Date Collected: 2/14/12 14:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|--|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 95 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 150 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 290 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 7494-34-0 | 26-Nor-5-cholesten-3.beta.-ol-25-one | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 107-41-5 | Hexylene glycol | 1000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 198-55-0 | Perylene | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1534SF

Lab ID: C121007-43

MD No:

Station ID: WA1534

Matrix: Surface Soil

D No: 6N70 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 42 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1534SF

Lab ID: C121007-43

MD No:

Station ID: WA1534

Matrix: Surface Soil

D No: 6N70 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 35 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 220 | J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 190 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 290 | J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 220 | U, J, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 96 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2800 | | ug/kg dry | 430 | 2/21/12 | 2/28/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 240 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 30 | J, QS-3, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 380 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1534SF

Lab ID: C121007-43

MD No:

Station ID: WA1534

Matrix: Surface Soil

D No: 6N70 DATAC

Date Collected: 2/15/12 8:55

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 96 | J, CLP01, QS-3 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 170 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 380 | | ug/kg dry | 220 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 700 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 107-41-5 | Hexylene glycol | 600 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1602SF

Lab ID: C121007-44

MD No:

Station ID: WA1602

Matrix: Surface Soil

D No: 6N33 DATAC

Date Collected: 2/14/12 15:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 21 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1602SF

Lab ID: C121007-44

MD No:

Station ID: WA1602

Matrix: Surface Soil

D No: 6N33 DATAC

Date Collected: 2/14/12 15:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 98 | J, CLP25, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 85 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 120 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 32 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 43 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 120 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 210 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1602SF

Lab ID: C121007-44

MD No:

Station ID: WA1602

Matrix: Surface Soil

D No: 6N33 DATAC

Date Collected: 2/14/12 15:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 54 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 130 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 210 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1606SF

Lab ID: C121007-45

MD No:

Station ID: WA1606

Matrix: Surface Soil

D No: 6N34 DATAC

Date Collected: 2/14/12 16:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1606SF

Lab ID: C121007-45

MD No:

Station ID: WA1606

Matrix: Surface Soil

D No: 6N34 DATAC

Date Collected: 2/14/12 16:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 56 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 190 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 140 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 210 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 49 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 56 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 39 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 200 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 27 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 350 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1606SF

Lab ID: C121007-45

MD No:

Station ID: WA1606

Matrix: Surface Soil

D No: 6N34 DATAC

Date Collected: 2/14/12 16:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 81 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 240 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 330 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|-----|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 900 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1608SF

Lab ID: C121007-46

MD No:

Station ID: WA1608

Matrix: Surface Soil

D No: 6N69 DATAC

Date Collected: 2/14/12 16:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 27 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U, J, QC-1 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1608SF

Lab ID: C121007-46

MD No:

Station ID: WA1608

Matrix: Surface Soil

D No: 6N69 DATAC

Date Collected: 2/14/12 16:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 27 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 140 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 120 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 210 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 68 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 140 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 220 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1608SF

Lab ID: C121007-46

MD No:

Station ID: WA1608

Matrix: Surface Soil

D No: 6N69 DATAC

Date Collected: 2/14/12 16:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 68 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 140 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 270 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|------------|--|------|-----------|-----------|--|---------|---------|---------------|
| 87295-26-9 | 16-Methyloxacyclohexadeca-3,5-dien-2-one | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 107-41-5 | Hexylene glycol | 7000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 3424-82-6 | o,p'-DDE | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-48-7 | Stigmasterol | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 4000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SF

Lab ID: C121007-47

MD No:

Station ID: WA1610

Matrix: Surface Soil

D No: 6N35 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 36 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SF

Lab ID: C121007-47

MD No:

Station ID: WA1610

Matrix: Surface Soil

D No: 6N35 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 28 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 170 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 150 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 230 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 61 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 58 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 3300 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 24 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 210 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 29 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 330 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SF

Lab ID: C121007-47

MD No:

Station ID: WA1610

Matrix: Surface Soil

D No: 6N35 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 91 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 180 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 330 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 83-46-5 | .beta.-Sitosterol | 500 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7494-34-0 | 26-Nor-5-cholesten-3.beta.-ol-25-one | 400 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SFX

Lab ID: C121007-48

MD No:

Station ID: WA1610X

Matrix: Surface Soil

D No: 6N75 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 21 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 410 | U, J, CLP16 | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 410 | U | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SEFX

Lab ID: C121007-48

MD No:

Station ID: WA1610X

Matrix: Surface Soil

D No: 6N75 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 36 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 35 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 52 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 22 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 45 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 64 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1610SEFX

Lab ID: C121007-48

MD No:

Station ID: WA1610X

Matrix: Surface Soil

D No: 6N75 DATAC

Date Collected: 2/15/12 10:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, CLP16, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 410 | U, J, CLP16 | ug/kg dry | 410 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 37 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 68 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-47-6 | .gamma.-Sitosterol | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 107-41-5 | Hexylene glycol | 1000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 1000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1614SF

Lab ID: C121007-49

MD No:

Station ID: WA1614

Matrix: Surface Soil

D No: 6N36 DATAC

Date Collected: 2/14/12 17:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 27 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 450 | U, J, CLP16 | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 450 | U, J, QS-4 | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 25 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U, J, QS-4 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 230 | U, J, QS-4 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1614SF

Lab ID: C121007-49

MD No:

Station ID: WA1614

Matrix: Surface Soil

D No: 6N36 DATAC

Date Collected: 2/14/12 17:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 24 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 53 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 270 | J, CLP25 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 180 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 280 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 62 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 76 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 42 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 280 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 34 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 510 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1614SF

Lab ID: C121007-49

MD No:

Station ID: WA1614

Matrix: Surface Soil

D No: 6N36 DATAC

Date Collected: 2/14/12 17:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 230 | U, J, CLP16, QS-4 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 98 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 450 | U, J, CLP16 | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 340 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 470 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|-----|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 600 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1616SF

Lab ID: C121007-50

MD No:

Station ID: WA1616

Matrix: Surface Soil

D No: 6N37 DATAC

Date Collected: 2/15/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 26 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 230 | U, J, CLP25 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 450 | U, J, CLP16 | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 26 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U, R, QS-4 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 230 | U, R, QS-4 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 450 | U | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1616SF

Lab ID: C121007-50

MD No:

Station ID: WA1616

Matrix: Surface Soil

D No: 6N37 DATAC

Date Collected: 2/15/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 54 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 230 | J, CLP01, CLP25 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 180 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 290 | J, QS-3 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 57 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 80 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 32 | J, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 250 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 27 | J, QS-3, CLP01 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 440 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1616SF

Lab ID: C121007-50

MD No:

Station ID: WA1616

Matrix: Surface Soil

D No: 6N37 DATAC

Date Collected: 2/15/12 11:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 86-73-7 | Fluorene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 230 | U, R, CLP16, QS-4 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 95 | J, CLP01, QS-3 | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 450 | U, J, CLP16 | ug/kg dry | 450 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 280 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 230 | U | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 440 | | ug/kg dry | 230 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|------------|-----------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 700 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 14811-95-1 | 1,19-Eicosadiene | 200 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 930-02-9 | Octadecane, 1-(ethenyloxy)- | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7320-37-8 | Oxirane, tetradecyl- | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1618SF

Lab ID: C121007-51

MD No:

Station ID: WA1618

Matrix: Surface Soil

D No: 6N71 DATAC

Date Collected: 2/15/12 10:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 21 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4100 | U, J, CLP16 | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4100 | U, J, QC-1 | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4100 | U | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1618SF

Lab ID: C121007-51

MD No:

Station ID: WA1618

Matrix: Surface Soil

D No: 6N71 DATAC

Date Collected: 2/15/12 10:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2100 | U, J, CLP25 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 380 | J, CLP01, CLP25 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 270 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 360 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 310 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 660 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1618SF

Lab ID: C121007-51

MD No:

Station ID: WA1618

Matrix: Surface Soil

D No: 6N71 DATAC

Date Collected: 2/15/12 10:40

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 210 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4100 | U, J, CLP16 | ug/kg dry | 4100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 510 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 770 | J, CLP01 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6501 | Unidentified Compound(s) | 7000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SF

Lab ID: C121007-52

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N38 DATAC

Date Collected: 2/15/12 11:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2200 | U, J, CLP25 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4400 | U, J, CLP16 | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4400 | U | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 370 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SF

Lab ID: C121007-52

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N38 DATAC

Date Collected: 2/15/12 11:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 1700 | J, CLP01, CLP25 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 3700 | J, CLP25 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 2400 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 3300 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 1100 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 1200 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1200 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 3500 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 410 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 500 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 8600 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 460 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SF

Lab ID: C121007-52

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N38 DATAC

Date Collected: 2/15/12 11:30

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 1300 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4400 | U, J, CLP16 | ug/kg dry | 4400 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 8100 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 8300 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-0000 | Tentatively Identified Compounds | 2000 | U | ug/kg dry | 2000 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SFS

Lab ID: C121007-53

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N83 DATAC

Date Collected: 2/15/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/21/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2200 | U, J, CLP25 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4200 | U, J, CLP16 | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4200 | U | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4200 | U | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4200 | U | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4200 | U | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4200 | U | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 400 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SFS

Lab ID: C121007-53

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N83 DATAC

Date Collected: 2/15/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|----------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2500 | J, CLP25 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 5000 | J, CLP25 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 3200 | | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 5200 | | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 750 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 1500 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1600 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 4600 | | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 390 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 610 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 11000 | | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 570 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1620SFS

Lab ID: C121007-53

MD No:

Station ID: WA1620

Matrix: Surface Soil

D No: 6N83 DATAC

Date Collected: 2/15/12 11:35

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 67-72-1 | Hexachloroethane | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 1100 | J, CLP01 | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4200 | U, J, CLP16 | ug/kg dry | 4200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 11000 | | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2200 | U | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 11000 | | ug/kg dry | 2200 | 2/21/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|-----------------|------|-----------|-----------|--|---------|---------|---------------|
| 107-41-5 | Hexylene glycol | 7000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |
| 198-55-0 | Perylene | 2000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1624SF

Lab ID: C121007-54

MD No:

Station ID: WA1624

Matrix: Surface Soil

D No: 6N39 DATAC

Date Collected: 2/15/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 34 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1624SF

Lab ID: C121007-54

MD No:

Station ID: WA1624

Matrix: Surface Soil

D No: 6N39 DATAC

Date Collected: 2/15/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 180 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 510 | J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 380 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 530 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 74 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 200 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 45 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 500 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 46 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 45 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1100 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 56 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1624SF

Lab ID: C121007-54

MD No:

Station ID: WA1624

Matrix: Surface Soil

D No: 6N39 DATAC

Date Collected: 2/15/12 12:00

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 140 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 870 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1100 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|---------|--------------------------|-----|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 500 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1626SF

Lab ID: C121007-55

MD No:

Station ID: WA1626

Matrix: Surface Soil

D No: 6N40 DATAC

Date Collected: 2/14/12 17:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 26 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1626SF

Lab ID: C121007-55

MD No:

Station ID: WA1626

Matrix: Surface Soil

D No: 6N40 DATAC

Date Collected: 2/14/12 17:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 25 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 150 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 140 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 220 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 47 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 66 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 260 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 23 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 170 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 32 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 350 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 270 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1626SF

Lab ID: C121007-55

MD No:

Station ID: WA1626

Matrix: Surface Soil

D No: 6N40 DATAC

Date Collected: 2/14/12 17:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 69 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 150 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 270 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 400 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 112-88-9 | 1-Octadecene | 500 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SF

Lab ID: C121007-56

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N41 DATAC

Date Collected: 2/14/12 14:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SF

Lab ID: C121007-56

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N41 DATAC

Date Collected: 2/14/12 14:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 300 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 230 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 330 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 300 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 530 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SF

Lab ID: C121007-56

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N41 DATAC

Date Collected: 2/14/12 14:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 310 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 550 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6501 | Unidentified Compound(s) | 1000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SFD

Lab ID: C121007-57

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N67 DATAC

Date Collected: 2/14/12 15:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 20 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2000 | U, J, CLP25 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4000 | U, J, CLP16 | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4000 | U | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4000 | U | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4000 | U | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4000 | U, J, QC-1 | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4000 | U | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SFD

Lab ID: C121007-57

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N67 DATAC

Date Collected: 2/14/12 15:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 2000 | U, J, CLP25 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 530 | J, CLP01, CLP25 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 400 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 580 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 480 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1100 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SFD

Lab ID: C121007-57

MD No:

Station ID: WA1702

Matrix: Surface Soil

D No: 6N67 DATAC

Date Collected: 2/14/12 15:05

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2000 | U, J, CLP16 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 310 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4000 | U, J, CLP16 | ug/kg dry | 4000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 980 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2000 | U | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1200 | J, CLP01 | ug/kg dry | 2000 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 107-41-5 | Hexylene glycol | 4000 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SEFX

Lab ID: C121007-58

MD No:

Station ID: WA1702X

Matrix: Surface Soil

D No: 6N68 DATAC

Date Collected: 2/14/12 15:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 18 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 190 | U, J, CLP25 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 380 | U, J, CLP16 | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 36 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 190 | U, J, QS-4 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 190 | U, J, CLP16, QS-4 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 190 | U, J, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 380 | U, J, QC-1 | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 380 | U | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 120 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SFX

Lab ID: C121007-58

MD No:

Station ID: WA1702X

Matrix: Surface Soil

D No: 6N68 DATAC

Date Collected: 2/14/12 15:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 230 | J, CLP25 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 700 | J, CLP25 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 560 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 930 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 80 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 320 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 150 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 670 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 78 | J, CLP01 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 56 | J, CLP01, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1600 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 74 | J, CLP01, CLP16 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1702SEFX

Lab ID: C121007-58

MD No:

Station ID: WA1702X

Matrix: Surface Soil

D No: 6N68 DATAC

Date Collected: 2/14/12 15:25

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 190 | U, J, CLP16, QS-4 | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 270 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 380 | U, J, CLP16 | ug/kg dry | 380 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 1400 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 190 | U | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1600 | | ug/kg dry | 190 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|-----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 613-12-7 | Anthracene, 2-methyl- | 200 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 900 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 2531-84-2 | Phenanthrene, 2-methyl- | 300 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 7000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1704SF

Lab ID: C121007-59

MD No:

Station ID: WA1704

Matrix: Surface Soil

D No: 6N42 DATAC

Date Collected: 2/14/12 15:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1704SF

Lab ID: C121007-59

MD No:

Station ID: WA1704

Matrix: Surface Soil

D No: 6N42 DATAC

Date Collected: 2/14/12 15:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 130 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 540 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 410 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 600 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 120 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 170 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 540 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1100 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1704SF

Lab ID: C121007-59

MD No:

Station ID: WA1704

Matrix: Surface Soil

D No: 6N42 DATAC

Date Collected: 2/14/12 15:45

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|--|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 180 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 710 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1100 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 1000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1712SF

Lab ID: C121007-60

MD No:

Station ID: WA1712

Matrix: Surface Soil

D No: 6N43 DATAC

Date Collected: 2/14/12 16:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 2100 | U | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1712SF

Lab ID: C121007-60

MD No:

Station ID: WA1712

Matrix: Surface Soil

D No: 6N43 DATAC

Date Collected: 2/14/12 16:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 450 | J, CLP25, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 370 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 520 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 130 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 170 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 500 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 750 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1712SF

Lab ID: C121007-60

MD No:

Station ID: WA1712

Matrix: Surface Soil

D No: 6N43 DATAC

Date Collected: 2/14/12 16:18

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 220 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 400 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 1100 | U | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 790 | J, CLP01 | ug/kg dry | 1100 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 1000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1714SF

Lab ID: C121007-61

MD No:

Station ID: WA1714

Matrix: Surface Soil

D No: 6N44 DATAC

Date Collected: 2/14/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 52 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1714SF

Lab ID: C121007-61

MD No:

Station ID: WA1714

Matrix: Surface Soil

D No: 6N44 DATAC

Date Collected: 2/14/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 32 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 210 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 180 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 300 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 42 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 83 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 450 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 250 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 25 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 360 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1714SF

Lab ID: C121007-61

MD No:

Station ID: WA1714

Matrix: Surface Soil

D No: 6N44 DATAC

Date Collected: 2/14/12 13:50

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 82 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 170 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 370 | | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|-----|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 400 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 661-19-8 | Behenic alcohol | 200 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 900 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SF

Lab ID: C121007-62

MD No:

Station ID: WA1716

Matrix: Surface Soil

D No: 6N45 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U, J, QS-4 | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 32 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SF

Lab ID: C121007-62

MD No:

Station ID: WA1716

Matrix: Surface Soil

D No: 6N45 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 24 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 95 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 360 | J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 270 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 380 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 90 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 110 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 47 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 370 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 42 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 36 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 690 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 28 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SF

Lab ID: C121007-62

MD No:

Station ID: WA1716

Matrix: Surface Soil

D No: 6N45 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 160 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 540 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 730 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 700 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/27/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SFX

Lab ID: C121007-63

MD No:

Station ID: WA1716X

Matrix: Surface Soil

D No: 6N62 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 47 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U, J, QC-1 | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SFX

Lab ID: C121007-63

MD No:

Station ID: WA1716X

Matrix: Surface Soil

D No: 6N62 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 22 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 75 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 390 | J, CLP25 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 350 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 540 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 66 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 190 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 36 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 390 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 42 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 22 | J, CLP01, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 700 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U, J, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1716SFX

Lab ID: C121007-63

MD No:

Station ID: WA1716X

Matrix: Surface Soil

D No: 6N62 DATAC

Date Collected: 2/14/12 13:34

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 170 | J, CLP01 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 370 | | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 800 | J, QM-3 | ug/kg dry | 220 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| 192-97-2 | Benzo[e]pyrene | 400 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 57-88-5 | Cholesterol | 600 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 7000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1722SF

Lab ID: C121007-64

MD No:

Station ID: WA1722

Matrix: Surface Soil

D No: 6N60 DATAC

Date Collected: 2/14/12 12:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 1100 | U, J, CLP25 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 2100 | U, J, QC-1 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 2100 | U | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1722SF

Lab ID: C121007-64

MD No:

Station ID: WA1722

Matrix: Surface Soil

D No: 6N60 DATAC

Date Collected: 2/14/12 12:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 120 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 630 | J, CLP01, CLP25 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 550 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 650 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 190 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 290 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 560 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 1100 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1722SF

Lab ID: C121007-64

MD No:

Station ID: WA1722

Matrix: Surface Soil

D No: 6N60 DATAC

Date Collected: 2/14/12 12:11

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 1100 | U, J, CLP16 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 440 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 2100 | U, J, CLP16 | ug/kg dry | 2100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 560 | J, CLP01 | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 1100 | U | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 1300 | | ug/kg dry | 1100 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1728SF

Lab ID: C121007-65

MD No:

Station ID: WA1728

Matrix: Surface Soil

D No: 6N46 DATAC

Date Collected: 2/14/12 11:48

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 22 | | % | | 2/20/12 | 2/27/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 29 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 420 | U | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1728SF

Lab ID: C121007-65

MD No:

Station ID: WA1728

Matrix: Surface Soil

D No: 6N46 DATAC

Date Collected: 2/14/12 11:48

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 43 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 230 | J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 190 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 300 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 66 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 96 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 33 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 270 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 33 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 400 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1728SF

Lab ID: C121007-65

MD No:

Station ID: WA1728

Matrix: Surface Soil

D No: 6N46 DATAC

Date Collected: 2/14/12 11:48

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, QS-4, CLP16 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 120 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 420 | U, J, CLP16 | ug/kg dry | 420 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 220 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 430 | | ug/kg dry | 220 | 2/20/12 | 2/27/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|-----------|--------------------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 7494-34-0 | 26-Nor-5-cholesten-3.beta.-ol-25-one | 600 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 300 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/27/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 2000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/27/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1732SF

Lab ID: C121007-66

MD No:

Station ID: WA1732

Matrix: Surface Soil

D No: 6N47 DATAC

Date Collected: 2/14/12 10:24

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| E1644012 | % Moisture | 23 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 2200 | U, J, CLP25 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 4300 | U, J, CLP16 | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 4300 | U | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 4300 | U | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 4300 | U | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 4300 | U | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 4300 | U | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 310 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1732SF

Lab ID: C121007-66

MD No:

Station ID: WA1732

Matrix: Surface Soil

D No: 6N47 DATAC

Date Collected: 2/14/12 10:24

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|------|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 980 | J, CLP01, CLP25 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 3300 | J, CLP25 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 2000 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 3500 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 790 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 1100 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 970 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 3700 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 360 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 360 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 8900 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1732SF

Lab ID: C121007-66

MD No:

Station ID: WA1732

Matrix: Surface Soil

D No: 6N47 DATAC

Date Collected: 2/14/12 10:24

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|-----------------------------------|--------------------------------------|---------|-------------|-----------|------|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 2200 | U, J, CLP16 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 1200 | J, CLP01 | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 4300 | U, J, CLP16 | ug/kg dry | 4300 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 7400 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 2200 | U | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 7900 | | ug/kg dry | 2200 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| Tentatively Identified Compounds: | | | | | | | | |
| R4-0000 | Tentatively Identified Compounds | 2000 | U | ug/kg dry | 2000 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1734SF

Lab ID: C121007-67

MD No:

Station ID: WA1734

Matrix: Surface Soil

D No: 6N48 DATAC

Date Collected: 2/14/12 9:52

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 24 | | % | | 2/20/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 220 | U, J, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 430 | U | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1734SF

Lab ID: C121007-67

MD No:

Station ID: WA1734

Matrix: Surface Soil

D No: 6N48 DATAC

Date Collected: 2/14/12 9:52

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 220 | U, J, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 92 | J, CLP01, CLP25 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 79 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 130 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 25 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 41 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 110 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 180 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1734SF

Lab ID: C121007-67

MD No:

Station ID: WA1734

Matrix: Surface Soil

D No: 6N48 DATAC

Date Collected: 2/14/12 9:52

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 220 | U, J, CLP16, QS-4 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 44 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 430 | U, J, CLP16 | ug/kg dry | 430 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 96 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 220 | U | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 180 | J, CLP01 | ug/kg dry | 220 | 2/20/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-47-6 | .gamma.-Sitosterol | 800 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| 192-97-2 | Benzo[e]pyrene | 200 | NJ, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 3000 | J, CLP15 | ug/kg dry | | 2/20/12 | 2/24/12 | CLP SOM01.2 B |



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Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1740SF

Lab ID: C121007-68

MD No:

Station ID: WA1740

Matrix: Surface Soil

D No: 6N49 DATAC

Date Collected: 2/14/12 11:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|-----------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| E1644012 | % Moisture | 18 | | % | | 2/21/12 | 2/24/12 | CLP BNA |
| 1319-77-3 | (3-and/or 4-)Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 92-52-4 | 1,1-Biphenyl | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-95-4 | 2,4,5-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-06-2 | 2,4,6-Trichlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-83-2 | 2,4-Dichlorophenol | 210 | U, J, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-67-9 | 2,4-Dimethylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 121-14-2 | 2,4-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 606-20-2 | 2,6-Dinitrotoluene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-58-7 | 2-Chloronaphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-57-8 | 2-Chlorophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-57-6 | 2-Methylnaphthalene | 23 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 95-48-7 | 2-Methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-74-4 | 2-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 88-75-5 | 2-Nitrophenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-94-1 | 3,3'-Dichlorobenzidine | 210 | U, J, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 99-09-2 | 3-Nitroaniline | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 101-55-3 | 4-Bromophenyl phenyl ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 59-50-7 | 4-Chloro-3-methylphenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 106-47-8 | 4-Chloroaniline | 210 | U, J, CLP16, QS-4 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-01-6 | 4-Nitroaniline | 400 | U, J, QC-1 | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-02-7 | 4-Nitrophenol | 400 | U | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 83-32-9 | Acenaphthene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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D.A.R.T. Id: 12-0195

Project: 12-0221, Black Leaf Chemicals - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1740SF

Lab ID: C121007-68

MD No:

Station ID: WA1740

Matrix: Surface Soil

D No: 6N49 DATAC

Date Collected: 2/14/12 11:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|------------------------------|---------|-----------------|-----------|-----|----------|----------|---------------|
| 208-96-8 | Acenaphthylene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-86-2 | Acetophenone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 120-12-7 | Anthracene | 24 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 1912-24-9 | Atrazine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 100-52-7 | Benzaldehyde | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 56-55-3 | Benzo(a)anthracene | 130 | J, CLP01, CLP25 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 50-32-8 | Benzo(a)pyrene | 120 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 205-99-2 | Benzo(b)fluoranthene | 190 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 191-24-2 | Benzo(g,h,i)perylene | 33 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 207-08-9 | Benzo(k)fluoranthene | 60 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-68-7 | Benzyl butyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-91-1 | Bis(2-chloroethoxy)methane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 111-44-4 | bis(2-Chloroethyl) Ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 105-60-2 | Caprolactam | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-74-8 | Carbazole | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 218-01-9 | Chrysene | 130 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 53-70-3 | Dibenzo(a,h)anthracene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 132-64-9 | Dibenzofuran | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-66-2 | Diethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 131-11-3 | Dimethyl phthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 84-74-2 | Di-n-butylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 117-84-0 | Di-n-octylphthalate | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 206-44-0 | Fluoranthene | 220 | | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 86-73-7 | Fluorene | 210 | U, J, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 118-74-1 | Hexachlorobenzene (HCB) | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-68-3 | Hexachlorobutadiene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



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Semi Volatile Organics

Project: 12-0221, Black Leaf Chemicals

Contract Lab Case: 42229

Sample ID: WA1740SF

Lab ID: C121007-68

MD No:

Station ID: WA1740

Matrix: Surface Soil

D No: 6N49 DATAC

Date Collected: 2/14/12 11:15

| CAS Number | Analyte | Results | Qualifiers | Units | MRL | Prepared | Analyzed | Method |
|------------|--------------------------------------|---------|-------------------|-----------|-----|----------|----------|---------------|
| 77-47-4 | Hexachlorocyclopentadiene (HCCP) | 210 | U, J, QS-4, CLP16 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 67-72-1 | Hexachloroethane | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 80 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 78-59-1 | Isophorone | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 91-20-3 | Naphthalene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 98-95-3 | Nitrobenzene | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 621-64-7 | n-Nitroso di-n-Propylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 122-39-4 | n-Nitrosodiphenylamine/Diphenylamine | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 87-86-5 | Pentachlorophenol | 400 | U, J, CLP16 | ug/kg dry | 400 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 85-01-8 | Phenanthrene | 130 | J, CLP01 | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 108-95-2 | Phenol | 210 | U | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 129-00-0 | Pyrene | 250 | | ug/kg dry | 210 | 2/21/12 | 2/24/12 | CLP SOM01.2 B |

Tentatively Identified Compounds:

| | | | | | | | | |
|----------|--------------------------|------|-----------|-----------|--|---------|---------|---------------|
| 83-46-5 | .beta.-Sitosterol | 800 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| 107-41-5 | Hexylene glycol | 600 | NJ, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6500 | Petroleum Product: | | N, CLP15 | | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |
| R4-6501 | Unidentified Compound(s) | 5000 | J, CLP15 | ug/kg dry | | 2/21/12 | 2/24/12 | CLP SOM01.2 B |



MEMORANDUM

Date: May 1, 2012

To: Stacey DeLaReintrie, Project Manager, OTIE
Superfund Technical Assessment and Response Team (START) for Region 4

Prepared by: Renea Anglin, START chemist for Region 4

QA/QC Keely Meadows

Concurrence by:

Subject: Data Validation for
Black Leaf Chemical Company
Louisville, KY
Project TDD No. TNA-05-003-0145

Laboratory: Analytical Environmental Services, Atlanta, GA
Sample Delivery Group (SDG): 1203416

1.0 INTRODUCTION

The START chemist for Region 4 validated analytical data for 3 waste samples for semivolatile organic compounds (SVOCs) and organochlorine pesticides. Samples were collected at the Black Leaf Chemical Company on February 15, 2012. The samples were analyzed under SDG 1203416 by Analytical Environmental Services of Atlanta, GA using U.S. Environmental Protection Agency (U.S. EPA) methods 8270D and 8081B.

Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-08-01, June 2008) and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Surrogate recoveries
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

2.1 SOLID WASTE SAMPLES BY METHOD 8270D

2.1.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Waste samples were collected on February 15, 2012 and were received at the laboratory on March 6, 2012. Samples were received at ambient temperature and past holding time. The laboratory notified Stacey DeLaReintre and was given approval to continue with analysis via e-mail.

2.1.2 SAMPLE PRESERVATION AND HOLDING TIME

SVOC samples were received at the laboratory past holding time, and the laboratory was instructed to continue with analysis by Stacey DeLaReintre on March 6, 2012.

2.1.3 BLANK RESULTS

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. One laboratory method blank sample (MB-158690) was run with this SDG.

No laboratory method blank detects were noted.

2.1.4 SURROGATE RECOVERIES

Laboratory performance on individual samples is established by means of fortifying each sample with surrogate compounds. Surrogate spike compounds included 2-Fluorophenol, Phenol-d5, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and Terphenyl-d14.

Sample BC06WA had the following surrogates biased low: 2,4,6-Tribromophenol at 27.1%R, 2-Fluorobiphenol at 33.6%R, 2-Fluorophenol at 19.5%R, Terphenyl-d14 at 35.4%R, Nitrobenzene-d5 at 30%R, and Phenol-d5 at 21.6%R. Sample BC07WA had the following surrogates biased low: 2-Fluorobiphenol at 44.7%R, Terphenyl-d14 at 46.1%R, and Phenol-d5 at 37.4%R. Samples submitted were waste samples and would likely have matrix issues with the surrogates. Therefore, Benzaldehyde and Phenol should be flagged as UJ in samples BC07WA and BC06WA.

2.1.5 MS/MSD RECOVERY RESULTS

Data for MS/MSD are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No MS/MSD samples were requested for this SDG.

2.1.6 LCS RECOVERY RESULTS

Data for the LCS is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS were fortified with the full list of SVOCs and analyzed with each batch of samples. The LCS accuracy performance is measured by %R.

The LCS recoveries were within QC limits.

2.1.7 GENERAL LABORATORY OBSERVATIONS

The laboratory noted that sample BC05WA was not reported in dry weight as the analysis of moisture content was not applicable to the sample matrix. Samples BC06WA and BC07WA were run at a dilution. Therefore, elevated reporting limits are provided.

Samples were extracted 23 days after sampling. According to the EPA Region 4 SESD SOP for Organic Analysis (Rev 3.1), samples extracted at >14 days and < 28days should have all analytes flagged as J; therefore, all analytes will be flagged as J or UJ in samples BC05WA, BC06WA, and BC07WA.

2.2 SOLID WASTE SAMPLES BY METHOD 8081B

2.2.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Waste samples were collected on February 15, 2012 and were received at the laboratory on March 6, 2012. Samples were received at ambient temperature and past holding time. The laboratory notified Stacey DeLaReintre and was given approval to continue with analysis via e-mail.

2.2.2 SAMPLE PRESERVATION AND HOLDING TIME

Samples were received at the laboratory past holding time and the laboratory was instructed to continue with analysis by Stacey DeLaReintre on March 6, 2012.

2.2.3 BLANK RESULTS

The purpose of laboratory blank analysis is to determine the existence and magnitude of contamination resulting from laboratory activities. A laboratory method blank sample (MB-158781) was run with this SDG.

No laboratory method blank detects were noted.

2.2.4 SURROGATE RECOVERIES

Laboratory performance on individual samples is established by means of fortifying each sample with surrogate compounds. The surrogate spike compound included Decachlorobiphenyl and Tetrachloro-m-xylene.

Sample BC06WA had Decachlorobiphenyl biased high at 194%R. Therefore, the following analytes will be flagged as J: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, Alpha-chlordane, Beta-BHC, and Dieldrin.

2.2.5 MS/MSD RECOVERY RESULTS

Data for MS/MSD are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No MS/MSD samples were requested for this analysis.

2.2.6 LCS RECOVERY RESULTS

Data for the LCS is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS was fortified and analyzed with each batch of samples. The LCS accuracy performance is measured by %R.

The recoveries for the LCS were all within QC limits.

2.2.7 GENERAL LABORATORY OBSERVATIONS

The laboratory noted that samples BC06WA and BC07WA were diluted due to high concentrations of target analytes. Therefore, elevated reporting limits are provided.

Samples were extracted 26 days after sampling. According to the EPA Region 4 SESD SOP for Organic Analysis (Rev 3.1), samples extracted at >14 days and < 28days should have all analytes flagged as J; therefore, all analytes will be flagged as J or UJ in samples BC05WA, BC06WA, and BC07WA.

3.0 OVERALL ASSESSMENT OF DATA

The analytical results did not meet the data quality objectives defined by the applicable method and validation guidance documentation. The waste samples arrived at the laboratory past holding time. The samples were extracted past 14 days but less than 28 days. Therefore, all data should be considered estimated.

ATTACHMENT
SUMMARY OF VALIDATED ANALYTICAL RESULTS
AND
CHAIN-OF-CUSTODY

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-001

Client Sample ID: BC05WA
 Collection Date: 2/15/2012 2:50:00 PM
 Matrix: Solid

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|-----------------------------------|--------|------|-----|-----------------|-------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| 1,1'-Biphenyl | BRL | UJH | 25 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4,5-Trichlorophenol | BRL | UJH | 39 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4,6-Trichlorophenol | BRL | UJH | 20 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dichlorophenol | BRL | UJH | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dimethylphenol | BRL | UJH | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dinitrophenol | BRL | UJH | 330 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dinitrotoluene | BRL | UJH | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,6-Dinitrotoluene | BRL | UJH | 37 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Chloronaphthalene | BRL | UJH | 21 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Chlorophenol | BRL | UJH | 30 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Methylnaphthalene | BRL | UJH | 33 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Methylphenol | BRL | UJH | 32 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Nitroaniline | BRL | UJH | 33 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Nitrophenol | BRL | UJH | 41 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 3,3'-Dichlorobenzidine | BRL | UJH | 43 | 670 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 3-Nitroaniline | BRL | UJH | 34 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4,6-Dinitro-2-methylphenol | BRL | UJH | 23 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Bromophenyl phenyl ether | BRL | UJH | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Chloro-3-methylphenol | BRL | UJH | 18 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Chloroaniline | BRL | UJH | 50 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Chlorophenyl phenyl ether | BRL | UJH | 37 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Methylphenol | BRL | UJH | 57 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Nitroaniline | BRL | UJH | 37 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Nitrophenol | BRL | UJH | 300 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Acenaphthene | BRL | UJH | 38 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Acenaphthylene | BRL | UJH | 20 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Acetophenone | BRL | UJH | 15 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Anthracene | BRL | UJH | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Atrazine | BRL | UJH | 34 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benz(a)anthracene | BRL | UJH | 23 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzaldehyde | BRL | UJH | 54 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(a)pyrene | BRL | UJH | 29 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(b)fluoranthene | BRL | UJH | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(g,h,i)perylene | BRL | UJH | 30 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(k)fluoranthene | BRL | UJH | 46 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-chloroethoxy)methane | BRL | UJH | 22 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-chloroethyl)ether | BRL | UJH | 54 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-chloroisopropyl)ether | BRL | UJH | 23 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-ethylhexyl)phthalate | 35 | J JH | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-001

Client Sample ID: BC05WA
 Collection Date: 2/15/2012 2:50:00 PM
 Matrix: Solid

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|------------------|-------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| Butyl benzyl phthalate | BRL | WJ H | 29 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Caprolactam | BRL | WJ H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Carbazole | BRL | WJ H | 37 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Chrysene | BRL | WJ H | 36 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Di-n-butyl phthalate | BRL | WJ H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Di-n-octyl phthalate | BRL | WJ H | 18 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Dibenz(a,h)anthracene | BRL | WJ H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Dibenzofuran | BRL | WJ H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Diethyl phthalate | BRL | WJ H | 33 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Dimethyl phthalate | BRL | WJ H | 20 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Fluoranthene | BRL | WJ H | 25 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Fluorene | BRL | WJ H | 24 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachlorobenzene | BRL | WJ H | 65 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachlorobutadiene | BRL | WJ H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachlorocyclopentadiene | BRL | WJ H | 33 | 660 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachloroethane | BRL | WJ H | 49 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Indeno(1,2,3-cd)pyrene | BRL | WJ H | 24 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Isophorone | BRL | WJ H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| N-Nitrosodi-n-propylamine | BRL | WJ H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| N-Nitrosodiphenylamine | BRL | WJ H | 25 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Naphthalene | BRL | WJ H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Nitrobenzene | BRL | WJ H | 30 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Pentachlorophenol | BRL | WJ H | 26 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Phenanthrene | BRL | WJ H | 32 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Phenol | BRL | WJ H | 24 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Pyrene | BRL | WJ H | 32 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 2,4,6-Tribromophenol | 126 | H | 0 | 41.1-130 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 2-Fluorobiphenyl | 115 | H | 0 | 45-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 2-Fluorophenol | 83.6 | H | 0 | 35-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 4-Terphenyl-d14 | 98.4 | H | 0 | 50.1-123 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: Nitrobenzene-d5 | 80.5 | H | 0 | 37.5-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: Phenol-d5 | 85 | H | 0 | 39-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |

CHLORINATED PESTICIDES, TCL SW8081B**(SW3550C)**

| | | | | | | | | | |
|-----------|-----|------|------|-----|-------|--------|---|------------------|----|
| 4,4'-DDD | 2.7 | J H | 0.38 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| 4,4'-DDE | 18 | J H | 0.26 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| 4,4'-DDT | 15 | J H | 0.46 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Aldrin | BRL | WJ H | 0.25 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| alpha-BHC | BRL | WJ H | 0.38 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-001

Client Sample ID: BC05WA
 Collection Date: 2/15/2012 2:50:00 PM
 Matrix: Solid

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|-------------------------------------|-----------|------|------|-----------------|-------|---------|----|------------------|---------|
| CHLORINATED PESTICIDES, TCL SW8081B | | | | (SW3550C) | | | | | |
| alpha-Chlordane | 1.6 J H | | 0.14 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| beta-BHC | BRL u J H | | 0.32 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| delta-BHC | BRL u J H | | 0.13 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Dieldrin | 4.6 J H | | 0.26 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endosulfan I | BRL u J H | | 0.42 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endosulfan II | BRL u J H | | 0.19 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endosulfan sulfate | BRL u J H | | 0.30 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endrin | BRL u J H | | 0.31 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endrin aldehyde | BRL u J H | | 0.58 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endrin ketone | BRL u J H | | 0.20 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| gamma-BHC | BRL u J H | | 0.26 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| gamma-Chlordane | BRL u J H | | 0.14 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Heptachlor | BRL u J H | | 0.33 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Heptachlor epoxide | BRL u J H | | 0.17 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Methoxychlor | BRL u J H | | 1.2 | 17 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Toxaphene | BRL u J H | | 3.6 | 170 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Surr: Decachlorobiphenyl | 86 H | | 0 | 26.2-127 | %REC | 158781 | 1 | 03/14/2012 15:41 | KD |
| Surr: Tetrachloro-m-xylene | 92.3 H | | 0 | 26.9-121 | %REC | 158781 | 1 | 03/14/2012 15:41 | KD |

Qualifiers: * Value exceeds maximum contaminant level
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 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-002

Client Sample ID: BC06WA
 Collection Date: 2/15/2012 2:55:00 PM
 Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|-----------------------------------|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| 1,1'-Biphenyl | BRL | UJ H | 150 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4,5-Trichlorophenol | BRL | UJ H | 230 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4,6-Trichlorophenol | BRL | UJ H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dichlorophenol | BRL | UJ H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dimethylphenol | BRL | UJ H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dinitrophenol | BRL | UJ H | 2000 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dinitrotoluene | BRL | UJ H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,6-Dinitrotoluene | BRL | UJ H | 220 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Chloronaphthalene | BRL | UJ H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Chlorophenol | BRL | UJ H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Methylnaphthalene | BRL | UJ H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Methylphenol | BRL | UJ H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Nitroaniline | BRL | UJ H | 190 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Nitrophenol | BRL | UJ H | 240 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 3,3'-Dichlorobenzidine | BRL | UJ H | 250 | 3900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 3-Nitroaniline | BRL | UJ H | 200 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4,6-Dinitro-2-methylphenol | BRL | UJ H | 140 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Bromophenyl phenyl ether | BRL | UJ H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Chloro-3-methylphenol | BRL | UJ H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Chloroaniline | BRL | UJ H | 290 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Chlorophenyl phenyl ether | BRL | UJ H | 210 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Methylphenol | BRL | UJ H | 330 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Nitroaniline | BRL | UJ H | 220 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Nitrophenol | BRL | UJ H | 1800 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Acenaphthene | 720 | J H | 220 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Acenaphthylene | BRL | UJ H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Acetophenone | BRL | UJ H | 89 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Anthracene | 1000 | UJ H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Atrazine | BRL | UJ H | 200 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benz(a)anthracene | 3300 | J H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzaldehyde | BRL | UJ H | 320 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(a)pyrene | 3200 | J H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(b)fluoranthene | 4000 | J H | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(g,h,i)perylene | 2000 | J H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(k)fluoranthene | 2000 | J H | 270 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-chloroethoxy)methane | BRL | UJ H | 130 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-chloroethyl)ether | BRL | UJ H | 310 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-chloroisopropyl)ether | BRL | UJ H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-ethylhexyl)phthalate | BRL | UJ H | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-002

Client Sample ID: BC06WA
 Collection Date: 2/15/2012 2:55:00 PM
 Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|------------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| Butyl benzyl phthalate | BRL 45 | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Caprolactam | BRL 45 | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Carbazole | 830 J | JH | 220 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Chrysene | 4600 J | H | 210 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Di-n-butyl phthalate | BRL 45 | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Di-n-octyl phthalate | BRL 45 | H | 100 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Dibenz(a,h)anthracene | BRL 45 | H | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Dibenzofuran | 480 J | JH | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Diethyl phthalate | BRL 45 | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Dimethyl phthalate | BRL 45 | H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Fluoranthene | 9700 J | H | 150 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Fluorene | 590 J | JH | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachlorobenzene | BRL 45 | H | 380 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachlorobutadiene | BRL 45 | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachlorocyclopentadiene | BRL 45 | H | 190 | 3900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachloroethane | BRL 45 | H | 290 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Indeno(1,2,3-cd)pyrene | 2200 J | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Isophorone | BRL 45 | H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| N-Nitrosodi-n-propylamine | BRL 45 | H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| N-Nitrosodiphenylamine | BRL 45 | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Naphthalene | 140 J | JH | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Nitrobenzene | BRL 45 | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Pentachlorophenol | BRL 45 | H | 150 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Phenanthrene | 7500 J | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Phenol | BRL 45 | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Pyrene | 7800 J | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 2,4,6-Tribromophenol | 27.1 | SH | 0 | 41.1-130 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 2-Fluorobiphenyl | 33.6 | SH | 0 | 45-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 2-Fluorophenol | 19.5 | SH | 0 | 35-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 4-Terphenyl-d14 | 35.4 | SH | 0 | 50.1-123 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: Nitrobenzene-d5 | 30 | SH | 0 | 37.5-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: Phenol-d5 | 21.6 | SH | 0 | 39-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| CHLORINATED PESTICIDES, TCL SW8081B | | | | (SW3550C) | | | | | |
| 4,4'-DDD | 340 J | H | 4.4 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| 4,4'-DDE | 2500 J | H | 15 | 200 | ug/Kg-dry | 158781 | 50 | 03/14/2012 16:20 | KD |
| 4,4'-DDT | 3400 J | H | 27 | 200 | ug/Kg-dry | 158781 | 50 | 03/14/2012 16:20 | KD |
| Aldrin | 4.3 J | JH | 3.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| alpha-BHC | BRL 45 | H | 4.4 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-002

Client Sample ID: BC06WA
 Collection Date: 2/15/2012 2:55:00 PM
 Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|-------|-----|-----------------|-----------|---------|----|------------------|---------|
| CHLORINATED PESTICIDES, TCL SW8081B (SW3550C) | | | | | | | | | |
| alpha-Chlordane | 42 | S H | 1.6 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| beta-BHC | 150 | S H | 3.8 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| delta-BHC | BRL | u S H | 1.5 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Dieldrin | 160 | S H | 3.1 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endosulfan I | BRL | u S H | 5.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endosulfan II | BRL | u S H | 2.3 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endosulfan sulfate | BRL | u S H | 3.6 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endrin | BRL | u S H | 3.6 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endrin aldehyde | BRL | u S H | 6.8 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endrin ketone | BRL | u S H | 2.3 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| gamma-BHC | BRL | u S H | 3.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| gamma-Chlordane | BRL | u S H | 1.6 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Heptachlor | BRL | u S H | 3.9 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Heptachlor epoxide | BRL | u S H | 2.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Methoxychlor | BRL | u S H | 15 | 200 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Toxaphene | BRL | u S H | 43 | 2000 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Surr: Decachlorobiphenyl | 194 | SH | 0 | 26.2-127 | %REC | 158781 | 10 | 03/14/2012 15:52 | KD |
| Surr: Tetrachloro-m-xylene | 60.6 | H | 0 | 26.9-121 | %REC | 158781 | 10 | 03/14/2012 15:52 | KD |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 14.8 | | 0 | 0 | wt% | R216854 | 1 | 03/12/2012 10:30 | AS |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-003

Client Sample ID: BC07WA
 Collection Date: 2/15/2012 3:00:00 PM
 Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|-----------------------------------|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| 1,1'-Biphenyl | BRL | UJ H | 130 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4,5-Trichlorophenol | BRL | UJ H | 200 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4,6-Trichlorophenol | BRL | UJ H | 100 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dichlorophenol | BRL | UJ H | 98 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dimethylphenol | BRL | UJ H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dinitrophenol | BRL | UJ H | 1700 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dinitrotoluene | BRL | UJ H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,6-Dinitrotoluene | BRL | UJ H | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Chloronaphthalene | BRL | UJ H | 110 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Chlorophenol | BRL | UJ H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Methylnaphthalene | BRL | UJ H | 170 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Methylphenol | BRL | UJ H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Nitroaniline | BRL | UJ H | 170 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Nitrophenol | BRL | UJ H | 210 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 3,3'-Dichlorobenzidine | BRL | UJ H | 220 | 3400 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 3-Nitroaniline | BRL | UJ H | 170 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4,6-Dinitro-2-methylphenol | BRL | UJ H | 120 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Bromophenyl phenyl ether | BRL | UJ H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Chloro-3-methylphenol | BRL | UJ H | 92 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Chloroaniline | BRL | UJ H | 260 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Chlorophenyl phenyl ether | BRL | UJ H | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Methylphenol | BRL | UJ H | 290 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Nitroaniline | BRL | UJ H | 190 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Nitrophenol | BRL | UJ H | 1500 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Acenaphthene | 920 | J H | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Acenaphthylene | BRL | UJ H | 100 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Acetophenone | BRL | UJ H | 77 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Anthracene | 1900 | J H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Atrazine | BRL | UJ H | 170 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benz(a)anthracene | 6400 | J H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzaldehyde | BRL | UJ H | 280 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(a)pyrene | 6500 | J H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(b)fluoranthene | 7500 | J H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(g,h,i)perylene | 3300 | J H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(k)fluoranthene | 3300 | J H | 230 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-chloroethoxy)methane | BRL | UJ H | 110 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-chloroethyl)ether | BRL | UJ H | 270 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-chloroisopropyl)ether | BRL | UJ H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-ethylhexyl)phthalate | 280 | J H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |

Qualifiers: * Value exceeds maximum contaminant level
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 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oncida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-003

Client Sample ID: BC07WA
 Collection Date: 2/15/2012 3:00:00 PM
 Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|---------|------|-----|-----------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C) | | | | | | | | | |
| Butyl benzyl phthalate | 210 J | JH | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Caprolactam | BRL uJ | H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Carbazole | 1300 J | JH | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Chrysene | 7900 J | H | 180 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Di-n-butyl phthalate | BRL uJ | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Di-n-octyl phthalate | BRL uJ | H | 90 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Dibenz(a,h)anthracene | BRL uJ | H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Dibenzofuran | 410 J | JH | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Diethyl phthalate | BRL uJ | H | 170 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Dimethyl phthalate | BRL uJ | H | 100 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Fluoranthene | 13000 J | H | 130 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Fluorene | 820 J | JH | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachlorobenzene | BRL uJ | H | 330 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachlorobutadiene | BRL uJ | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachlorocyclopentadiene | BRL uJ | H | 170 | 3400 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachloroethane | BRL uJ | H | 250 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Indeno(1,2,3-cd)pyrene | 3600 J | H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Isophorone | BRL uJ | H | 97 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| N-Nitrosodi-n-propylamine | BRL uJ | H | 95 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| N-Nitrosodiphenylamine | BRL uJ | H | 130 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Naphthalene | BRL uJ | H | 97 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Nitrobenzene | BRL uJ | H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Pentachlorophenol | BRL uJ | H | 130 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Phenanthrene | 9500 J | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Phenol | BRL uJ | H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Pyrene | 11000 J | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 2,4,6-Tribromophenol | 41.9 | H | 0 | 41.1-130 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 2-Fluorobiphenyl | 44.7 | SH | 0 | 45-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 2-Fluorophenol | 36.3 | H | 0 | 35-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 4-Terphenyl-d14 | 46.1 | SH | 0 | 50.1-123 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: Nitrobenzene-d5 | 39.6 | H | 0 | 37.5-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: Phenol-d5 | 37.4 | SH | 0 | 39-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |

CHLORINATED PESTICIDES, TCL SW8081B (SW3550C)

| | | | | | | | | | |
|-----------|--------|---|-----|----|-----------|--------|----|------------------|----|
| 4,4'-DDD | 51 J | H | 3.9 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| 4,4'-DDE | 240 J | H | 2.6 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| 4,4'-DDT | 160 J | H | 4.7 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Aldrin | BRL uJ | H | 2.6 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| alpha-BHC | BRL uJ | H | 3.9 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
 Project Name: Black Leaf Chemical Company
 Lab ID: 1203416-003

Client Sample ID: BC07WA
 Collection Date: 2/15/2012 3:00:00 PM
 Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|-----------------|-----------|---------|----|------------------|---------|
| CHLORINATED PESTICIDES, TCL SW8081B (SW3550C) | | | | | | | | | |
| alpha-Chlordane | 12 | JH | 1.4 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| beta-BHC | 17 | JH | 3.3 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| delta-BHC | BRL | JH | 1.3 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Dieldrin | 27 | JH | 2.7 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endosulfan I | BRL | JH | 4.3 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endosulfan II | BRL | JH | 2.0 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endosulfan sulfate | BRL | JH | 3.1 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endrin | BRL | JH | 3.2 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endrin aldehyde | BRL | JH | 5.9 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endrin ketone | BRL | JH | 2.0 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| gamma-BHC | BRL | JH | 2.6 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| gamma-Chlordane | 12 | JH | 1.4 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Heptachlor | BRL | JH | 3.4 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Heptachlor epoxide | BRL | JH | 1.7 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Methoxychlor | BRL | JH | 13 | 170 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Toxaphene | BRL | JH | 37 | 1700 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Surr: Decachlorobiphenyl | 95.6 | H | 0 | 26.2-127 | %REC | 158781 | 10 | 03/14/2012 16:03 | KD |
| Surr: Tetrachloro-m-xylene | 76.6 | H | 0 | 26.9-121 | %REC | 158781 | 10 | 03/14/2012 16:03 | KD |

PERCENT MOISTURE D2216

| | | | | | | | | | |
|------------------|------|--|---|---|-----|---------|---|------------------|----|
| Percent Moisture | 1.84 | | 0 | 0 | wt% | R216854 | 1 | 03/12/2012 10:30 | AS |
|------------------|------|--|---|---|-----|---------|---|------------------|----|

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

CHAIN OF CUSTODY RECORD

DateShipped: 3/6/2012
CarrierName: GOV Carrier
AirbillNo:

Site #: BC
Project Number: 12-0195
Cooler #:

No: 03/06/12-0001
Lab: Analytical Environmental Services
Lab Contact: James Forrest
Lab Phone: 770-457-8177

No: 03/06/12-0001

Lab Contact: James Forrest

Lab Phone: 770-457-8177

[illegible]

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|--------------|------------------|--------|------------------|--------|-------|--------------|-----------------|------|-------------|------|------|
| | <i>Theresa</i> | 3/6/12 | <i>Don Feltz</i> | 3/6/12 | 13:25 | | | | | | |
| | <i>Don Feltz</i> | 3/6/12 | <i>Don Feltz</i> | 3/6/12 | 14:25 | | | | | | |

123415



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 30, 2012

Stacy DeLaReintrie
Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta GA 30066

TEL: (678) 355-5550

FAX: (770) 528-0167

RE: Black Leaf Chemical Company

Dear Stacy DeLaReintrie:

Order No: 1203416

Analytical Environmental Services, Inc. received 3 samples on March 6, 2012 2:25 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest
Project Manager

USEPA Region 4 COC (LAB COPY)

DateShipped: 3/6/2012

CarrierName: GOV Carrier

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: BC

Project Number: 12-0195

Cooler #:

No: 03/06/12-0001

Lab: Analytical Environmental Services

Lab Contact: James Forrest

Lab Phone: 770-457-8177

[illegible]

| | |
|-----------------------|---|
| Special Instructions: | Shipment for Case Complete? N |
| | Samples Transferred From Chain of Custody # |
| Analysis Key | |

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|--------------|-------------------|--------|-------------|--------|-------|--------------|-----------------|------|-------------|------|------|
| | Mother Lippman | 3/6/12 | [Signature] | 3/6/12 | 13:25 | | | | | | |
| | Dan Porter | 3/6/12 | [Signature] | 3/6/12 | 14:25 | | | | | | |
| | | | | | | | | | | | |

Client: Oneida Total Integrated Enterprises
Project: Black Leaf Chemical Company
Lab ID: 1203416

Case Narrative**Sample Receiving Nonconformance:**

Samples were received at ambient temp, outside required temperature range of 0-6°C. No ice or melted ice was present. Samples were also received outside of method designated holding time of 14 days. Proceed with analysis per Stacey DeLaReintrie on 3/6/12 via email.

Sample "BC05WA" was not reported in dry weight, as analysis of moisture content is not applicable due to sample matrix.

Due to sample matrix, samples 1203416-002A and -003A required dilution during analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc
Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-001

Client Sample ID: BC05WA
Collection Date: 2/15/2012 2:50:00 PM
Matrix: Solid

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|------------------|-------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| 1,1'-Biphenyl | BRL | H | 25 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4,5-Trichlorophenol | BRL | H | 39 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4,6-Trichlorophenol | BRL | H | 20 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dichlorophenol | BRL | H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dimethylphenol | BRL | H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dinitrophenol | BRL | H | 330 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,4-Dinitrotoluene | BRL | H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2,6-Dinitrotoluene | BRL | H | 37 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Chloronaphthalene | BRL | H | 21 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Chlorophenol | BRL | H | 30 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Methylnaphthalene | BRL | H | 33 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Methylphenol | BRL | H | 32 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Nitroaniline | BRL | H | 33 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 2-Nitrophenol | BRL | H | 41 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 3,3'-Dichlorobenzidine | BRL | H | 43 | 670 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 3-Nitroaniline | BRL | H | 34 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4,6-Dinitro-2-methylphenol | BRL | H | 23 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Bromophenyl phenyl ether | BRL | H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Chloro-3-methylphenol | BRL | H | 18 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Chloroaniline | BRL | H | 50 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Chlorophenyl phenyl ether | BRL | H | 37 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Methylphenol | BRL | H | 57 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Nitroaniline | BRL | H | 37 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| 4-Nitrophenol | BRL | H | 300 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Acenaphthene | BRL | H | 38 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Acenaphthylene | BRL | H | 20 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Acetophenone | BRL | H | 15 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Anthracene | BRL | H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Atrazine | BRL | H | 34 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benz(a)anthracene | BRL | H | 23 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzaldehyde | BRL | H | 54 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(a)pyrene | BRL | H | 29 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(b)fluoranthene | BRL | H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(g,h,i)perylene | BRL | H | 30 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Benzo(k)fluoranthene | BRL | H | 46 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-chloroethoxy)methane | BRL | H | 22 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-chloroethyl)ether | BRL | H | 54 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-chloroisopropyl)ether | BRL | H | 23 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Bis(2-ethylhexyl)phthalate | 35 | JH | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-001

Client Sample ID: BC05WA
Collection Date: 2/15/2012 2:50:00 PM
Matrix: Solid

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|------------------|-------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| Butyl benzyl phthalate | BRL | H | 29 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Caprolactam | BRL | H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Carbazole | BRL | H | 37 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Chrysene | BRL | H | 36 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Di-n-butyl phthalate | BRL | H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Di-n-octyl phthalate | BRL | H | 18 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Dibenz(a,h)anthracene | BRL | H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Dibenzofuran | BRL | H | 28 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Diethyl phthalate | BRL | H | 33 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Dimethyl phthalate | BRL | H | 20 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Fluoranthene | BRL | H | 25 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Fluorene | BRL | H | 24 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachlorobenzene | BRL | H | 65 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachlorobutadiene | BRL | H | 31 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachlorocyclopentadiene | BRL | H | 33 | 660 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Hexachloroethane | BRL | H | 49 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Indeno(1,2,3-cd)pyrene | BRL | H | 24 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Isophorone | BRL | H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| N-Nitrosodi-n-propylamine | BRL | H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| N-Nitrosodiphenylamine | BRL | H | 25 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Naphthalene | BRL | H | 19 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Nitrobenzene | BRL | H | 30 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Pentachlorophenol | BRL | H | 26 | 1700 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Phenanthrene | BRL | H | 32 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Phenol | BRL | H | 24 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Pyrene | BRL | H | 32 | 330 | ug/Kg | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 2,4,6-Tribromophenol | 126 | H | 0 | 41.1-130 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 2-Fluorobiphenyl | 115 | H | 0 | 45-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 2-Fluorophenol | 83.6 | H | 0 | 35-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: 4-Terphenyl-d14 | 98.4 | H | 0 | 50.1-123 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: Nitrobenzene-d5 | 80.5 | H | 0 | 37.5-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| Surr: Phenol-d5 | 85 | H | 0 | 39-120 | %REC | 158690 | 1 | 03/09/2012 12:26 | YH |
| CHLORINATED PESTICIDES, TCL SW8081B | | | | (SW3550C) | | | | | |
| 4,4'-DDD | 2.7 | JH | 0.38 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| 4,4'-DDE | 18 | H | 0.26 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| 4,4'-DDT | 15 | H | 0.46 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Aldrin | BRL | H | 0.25 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| alpha-BHC | BRL | H | 0.38 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc
Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-001

Client Sample ID: BC05WA
Collection Date: 2/15/2012 2:50:00 PM
Matrix: Solid

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|------------------|-------|---------|----|------------------|---------|
| CHLORINATED PESTICIDES, TCL SW8081B | | | | (SW3550C) | | | | | |
| alpha-Chlordane | 1.6 | JH | 0.14 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| beta-BHC | BRL | H | 0.32 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| delta-BHC | BRL | H | 0.13 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Dieldrin | 4.6 | H | 0.26 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endosulfan I | BRL | H | 0.42 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endosulfan II | BRL | H | 0.19 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endosulfan sulfate | BRL | H | 0.30 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endrin | BRL | H | 0.31 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endrin aldehyde | BRL | H | 0.58 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Endrin ketone | BRL | H | 0.20 | 3.3 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| gamma-BHC | BRL | H | 0.26 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| gamma-Chlordane | BRL | H | 0.14 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Heptachlor | BRL | H | 0.33 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Heptachlor epoxide | BRL | H | 0.17 | 1.7 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Methoxychlor | BRL | H | 1.2 | 17 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Toxaphene | BRL | H | 3.6 | 170 | ug/Kg | 158781 | 1 | 03/14/2012 15:41 | KD |
| Surr: Decachlorobiphenyl | 86 | H | 0 | 26.2-127 | %REC | 158781 | 1 | 03/14/2012 15:41 | KD |
| Surr: Tetrachloro-m-xylene | 92.3 | H | 0 | 26.9-121 | %REC | 158781 | 1 | 03/14/2012 15:41 | KD |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-002

Client Sample ID: BC06WA
Collection Date: 2/15/2012 2:55:00 PM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|------------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| 1,1'-Biphenyl | BRL | H | 150 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4,5-Trichlorophenol | BRL | H | 230 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4,6-Trichlorophenol | BRL | H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dichlorophenol | BRL | H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dimethylphenol | BRL | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dinitrophenol | BRL | H | 2000 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,4-Dinitrotoluene | BRL | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2,6-Dinitrotoluene | BRL | H | 220 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Chloronaphthalene | BRL | H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Chlorophenol | BRL | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Methylnaphthalene | BRL | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Methylphenol | BRL | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Nitroaniline | BRL | H | 190 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 2-Nitrophenol | BRL | H | 240 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 3,3'-Dichlorobenzidine | BRL | H | 250 | 3900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 3-Nitroaniline | BRL | H | 200 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4,6-Dinitro-2-methylphenol | BRL | H | 140 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Bromophenyl phenyl ether | BRL | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Chloro-3-methylphenol | BRL | H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Chloroaniline | BRL | H | 290 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Chlorophenyl phenyl ether | BRL | H | 210 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Methylphenol | BRL | H | 330 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Nitroaniline | BRL | H | 220 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| 4-Nitrophenol | BRL | H | 1800 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Acenaphthene | 720 | JH | 220 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Acenaphthylene | BRL | H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Acetophenone | BRL | H | 89 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Anthracene | 1000 | JH | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Atrazine | BRL | H | 200 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benz(a)anthracene | 3300 | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzaldehyde | BRL | H | 320 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(a)pyrene | 3200 | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(b)fluoranthene | 4000 | H | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(g,h,i)perylene | 2000 | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Benzo(k)fluoranthene | 2000 | H | 270 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-chloroethoxy)methane | BRL | H | 130 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-chloroethyl)ether | BRL | H | 310 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-chloroisopropyl)ether | BRL | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Bis(2-ethylhexyl)phthalate | BRL | H | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-002

Client Sample ID: BC06WA
Collection Date: 2/15/2012 2:55:00 PM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|------------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| Butyl benzyl phthalate | BRL | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Caprolactam | BRL | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Carbazole | 830 | JH | 220 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Chrysene | 4600 | H | 210 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Di-n-butyl phthalate | BRL | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Di-n-octyl phthalate | BRL | H | 100 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Dibenz(a,h)anthracene | BRL | H | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Dibenzofuran | 480 | JH | 160 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Diethyl phthalate | BRL | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Dimethyl phthalate | BRL | H | 120 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Fluoranthene | 9700 | H | 150 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Fluorene | 590 | JH | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachlorobenzene | BRL | H | 380 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachlorobutadiene | BRL | H | 180 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachlorocyclopentadiene | BRL | H | 190 | 3900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Hexachloroethane | BRL | H | 290 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Indeno(1,2,3-cd)pyrene | 2200 | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Isophorone | BRL | H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| N-Nitrosodi-n-propylamine | BRL | H | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| N-Nitrosodiphenylamine | BRL | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Naphthalene | 140 | JH | 110 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Nitrobenzene | BRL | H | 170 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Pentachlorophenol | BRL | H | 150 | 10000 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Phenanthrene | 7500 | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Phenol | BRL | H | 140 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Pyrene | 7800 | H | 190 | 1900 | ug/Kg-dry | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 2,4,6-Tribromophenol | 27.1 | SH | 0 | 41.1-130 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 2-Fluorobiphenyl | 33.6 | SH | 0 | 45-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 2-Fluorophenol | 19.5 | SH | 0 | 35-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: 4-Terphenyl-d14 | 35.4 | SH | 0 | 50.1-123 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: Nitrobenzene-d5 | 30 | SH | 0 | 37.5-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| Surr: Phenol-d5 | 21.6 | SH | 0 | 39-120 | %REC | 158690 | 5 | 03/09/2012 19:55 | YH |
| CHLORINATED PESTICIDES, TCL SW8081B | | | | (SW3550C) | | | | | |
| 4,4'-DDD | 340 | H | 4.4 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| 4,4'-DDE | 2500 | H | 15 | 200 | ug/Kg-dry | 158781 | 50 | 03/14/2012 16:20 | KD |
| 4,4'-DDT | 3400 | H | 27 | 200 | ug/Kg-dry | 158781 | 50 | 03/14/2012 16:20 | KD |
| Aldrin | 4.3 | JH | 3.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| alpha-BHC | BRL | H | 4.4 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc
Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-002

Client Sample ID: BC06WA
Collection Date: 2/15/2012 2:55:00 PM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|-----------------|-----------|---------|----|------------------|---------|
| CHLORINATED PESTICIDES, TCL SW8081B (SW3550C) | | | | | | | | | |
| alpha-Chlordane | 42 | H | 1.6 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| beta-BHC | 150 | H | 3.8 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| delta-BHC | BRL | H | 1.5 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Dieldrin | 160 | H | 3.1 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endosulfan I | BRL | H | 5.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endosulfan II | BRL | H | 2.3 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endosulfan sulfate | BRL | H | 3.6 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endrin | BRL | H | 3.6 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endrin aldehyde | BRL | H | 6.8 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Endrin ketone | BRL | H | 2.3 | 39 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| gamma-BHC | BRL | H | 3.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| gamma-Chlordane | BRL | H | 1.6 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Heptachlor | BRL | H | 3.9 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Heptachlor epoxide | BRL | H | 2.0 | 20 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Methoxychlor | BRL | H | 15 | 200 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Toxaphene | BRL | H | 43 | 2000 | ug/Kg-dry | 158781 | 10 | 03/14/2012 15:52 | KD |
| Surr: Decachlorobiphenyl | 194 | SH | 0 | 26.2-127 | %REC | 158781 | 10 | 03/14/2012 15:52 | KD |
| Surr: Tetrachloro-m-xylene | 60.6 | H | 0 | 26.9-121 | %REC | 158781 | 10 | 03/14/2012 15:52 | KD |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 14.8 | | 0 | 0 | wt% | R216854 | 1 | 03/12/2012 10:30 | AS |

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 NC Not confirmed

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value
 Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-003

Client Sample ID: BC07WA
Collection Date: 2/15/2012 3:00:00 PM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D (SW3550C) | | | | | | | | | |
| 1,1'-Biphenyl | BRL | H | 130 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4,5-Trichlorophenol | BRL | H | 200 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4,6-Trichlorophenol | BRL | H | 100 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dichlorophenol | BRL | H | 98 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dimethylphenol | BRL | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dinitrophenol | BRL | H | 1700 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,4-Dinitrotoluene | BRL | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2,6-Dinitrotoluene | BRL | H | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Chloronaphthalene | BRL | H | 110 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Chlorophenol | BRL | H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Methylnaphthalene | BRL | H | 170 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Methylphenol | BRL | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Nitroaniline | BRL | H | 170 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 2-Nitrophenol | BRL | H | 210 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 3,3'-Dichlorobenzidine | BRL | H | 220 | 3400 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 3-Nitroaniline | BRL | H | 170 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4,6-Dinitro-2-methylphenol | BRL | H | 120 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Bromophenyl phenyl ether | BRL | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Chloro-3-methylphenol | BRL | H | 92 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Chloroaniline | BRL | H | 260 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Chlorophenyl phenyl ether | BRL | H | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Methylphenol | BRL | H | 290 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Nitroaniline | BRL | H | 190 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| 4-Nitrophenol | BRL | H | 1500 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Acenaphthene | 920 | JH | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Acenaphthylene | BRL | H | 100 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Acetophenone | BRL | H | 77 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Anthracene | 1900 | H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Atrazine | BRL | H | 170 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benz(a)anthracene | 6400 | H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzaldehyde | BRL | H | 280 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(a)pyrene | 6500 | H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(b)fluoranthene | 7500 | H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(g,h,i)perylene | 3300 | H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Benzo(k)fluoranthene | 3300 | H | 230 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-chloroethoxy)methane | BRL | H | 110 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-chloroethyl)ether | BRL | H | 270 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-chloroisopropyl)ether | BRL | H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Bis(2-ethylhexyl)phthalate | 280 | JH | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |

Qualifiers:

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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-003

Client Sample ID: BC07WA
Collection Date: 2/15/2012 3:00:00 PM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|------------------|-----------|---------|----|------------------|---------|
| TCL-SEMIVOLATILE ORGANICS SW8270D | | | | (SW3550C) | | | | | |
| Butyl benzyl phthalate | 210 | JH | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Caprolactam | BRL | H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Carbazole | 1300 | JH | 190 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Chrysene | 7900 | H | 180 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Di-n-butyl phthalate | BRL | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Di-n-octyl phthalate | BRL | H | 90 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Dibenz(a,h)anthracene | BRL | H | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Dibenzofuran | 410 | JH | 140 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Diethyl phthalate | BRL | H | 170 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Dimethyl phthalate | BRL | H | 100 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Fluoranthene | 13000 | H | 130 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Fluorene | 820 | JH | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachlorobenzene | BRL | H | 330 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachlorobutadiene | BRL | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachlorocyclopentadiene | BRL | H | 170 | 3400 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Hexachloroethane | BRL | H | 250 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Indeno(1,2,3-cd)pyrene | 3600 | H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Isophorone | BRL | H | 97 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| N-Nitrosodi-n-propylamine | BRL | H | 95 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| N-Nitrosodiphenylamine | BRL | H | 130 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Naphthalene | BRL | H | 97 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Nitrobenzene | BRL | H | 150 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Pentachlorophenol | BRL | H | 130 | 8700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Phenanthrene | 9500 | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Phenol | BRL | H | 120 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Pyrene | 11000 | H | 160 | 1700 | ug/Kg-dry | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 2,4,6-Tribromophenol | 41.9 | H | 0 | 41.1-130 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 2-Fluorobiphenyl | 44.7 | SH | 0 | 45-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 2-Fluorophenol | 36.3 | H | 0 | 35-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: 4-Terphenyl-d14 | 46.1 | SH | 0 | 50.1-123 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: Nitrobenzene-d5 | 39.6 | H | 0 | 37.5-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| Surr: Phenol-d5 | 37.4 | SH | 0 | 39-120 | %REC | 158690 | 5 | 03/09/2012 20:22 | YH |
| CHLORINATED PESTICIDES, TCL SW8081B | | | | (SW3550C) | | | | | |
| 4,4'-DDD | 51 | H | 3.9 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| 4,4'-DDE | 240 | H | 2.6 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| 4,4'-DDT | 160 | H | 4.7 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Aldrin | BRL | H | 2.6 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| alpha-BHC | BRL | H | 3.9 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 30-Mar-12

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Lab ID: 1203416-003

Client Sample ID: BC07WA
Collection Date: 2/15/2012 3:00:00 PM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|-----|-----------------|-----------|---------|----|------------------|---------|
| CHLORINATED PESTICIDES, TCL SW8081B (SW3550C) | | | | | | | | | |
| alpha-Chlordane | 12 | JH | 1.4 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| beta-BHC | 17 | JH | 3.3 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| delta-BHC | BRL | H | 1.3 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Dieldrin | 27 | JH | 2.7 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endosulfan I | BRL | H | 4.3 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endosulfan II | BRL | H | 2.0 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endosulfan sulfate | BRL | H | 3.1 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endrin | BRL | H | 3.2 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endrin aldehyde | BRL | H | 5.9 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Endrin ketone | BRL | H | 2.0 | 34 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| gamma-BHC | BRL | H | 2.6 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| gamma-Chlordane | 12 | JH | 1.4 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Heptachlor | BRL | H | 3.4 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Heptachlor epoxide | BRL | H | 1.7 | 17 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Methoxychlor | BRL | H | 13 | 170 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Toxaphene | BRL | H | 37 | 1700 | ug/Kg-dry | 158781 | 10 | 03/14/2012 16:03 | KD |
| Surr: Decachlorobiphenyl | 95.6 | H | 0 | 26.2-127 | %REC | 158781 | 10 | 03/14/2012 16:03 | KD |
| Surr: Tetrachloro-m-xylene | 76.6 | H | 0 | 26.9-121 | %REC | 158781 | 10 | 03/14/2012 16:03 | KD |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 1.84 | | 0 | 0 | wt% | R216854 | 1 | 03/12/2012 10:30 | AS |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client OTTE

Work Order Number 1203416

Checklist completed by [Signature] Date 3/6/12

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☐ No ☒

Cooler #1 Amb Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☐ No ☒

Was TAT marked on the COC? Yes ☐ No ☒

Proceed with Standard TAT as per project history? Yes ☒ No ☐ Not Applicable ☐

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ Not Applicable ☒

Sample Condition: Good ☒ Adjusted? ☐ Other(Explain) ☐ Checked by ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Oneida Total Integrated Enterprises
Project: Black Leaf Chemical Company
Lab Order: 1203416

Dates Report

| Lab Sample ID | Client Sample ID | Collection Date | Matrix | Test Name | TCLP Date | Prep Date | Analysis Date |
|---------------|------------------|---------------------|--------|----------------------------|-----------|------------|---------------|
| 1203416-001A | BC05WA | 2/15/2012 2:50:00PM | Solid | TCL-CHLORINATED PESTICIDES | | 03/12/2012 | 03/14/2012 |
| 1203416-001A | BC05WA | 2/15/2012 2:50:00PM | Solid | TCL-SEMIVOLATILE ORGANICS | | 03/08/2012 | 03/09/2012 |
| 1203416-002A | BC06WA | 2/15/2012 2:55:00PM | Soil | TCL-CHLORINATED PESTICIDES | | 03/12/2012 | 03/14/2012 |
| 1203416-002A | BC06WA | 2/15/2012 2:55:00PM | Soil | TCL-SEMIVOLATILE ORGANICS | | 03/08/2012 | 03/09/2012 |
| 1203416-002A | BC06WA | 2/15/2012 2:55:00PM | Soil | PERCENT MOISTURE | | | 03/12/2012 |
| 1203416-003A | BC07WA | 2/15/2012 3:00:00PM | Soil | TCL-CHLORINATED PESTICIDES | | 03/12/2012 | 03/14/2012 |
| 1203416-003A | BC07WA | 2/15/2012 3:00:00PM | Soil | TCL-SEMIVOLATILE ORGANICS | | 03/08/2012 | 03/09/2012 |
| 1203416-003A | BC07WA | 2/15/2012 3:00:00PM | Soil | PERCENT MOISTURE | | | 03/12/2012 |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158690**

| Sample ID: MB-158690 | Client ID: | Units: ug/Kg | | | | Prep Date: 03/08/2012 | Run No: 216759 | | | | |
|-----------------------------|--|------------------------|-----------|-------------|------|----------------------------------|------------------------|-------------|------|-----------|------|
| SampleType: MBLK | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | BatchID: 158690 | | | | Analysis Date: 03/09/2012 | Seq No: 4531828 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,4,5-Trichlorophenol | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,4,6-Trichlorophenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,4-Dichlorophenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,4-Dimethylphenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,4-Dinitrophenol | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,4-Dinitrotoluene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2,6-Dinitrotoluene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2-Chloronaphthalene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2-Chlorophenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2-Methylnaphthalene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2-Methylphenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2-Nitroaniline | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2-Nitrophenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3,3'-Dichlorobenzidine | BRL | 670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3-Nitroaniline | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4,6-Dinitro-2-methylphenol | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Bromophenyl phenyl ether | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Chloro-3-methylphenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Chloroaniline | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Chlorophenyl phenyl ether | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Methylphenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Nitroaniline | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4-Nitrophenol | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Acenaphthene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Acenaphthylene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Acetophenone | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158690**

| Sample ID: MB-158690 | | Client ID: | | | | Units: ug/Kg | | Prep Date: 03/08/2012 | | Run No: 216759 | |
|-----------------------------|--------|--|-----------|-------------|------|------------------------|------------|----------------------------------|------|------------------------|------|
| SampleType: MBLK | | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | | | | BatchID: 158690 | | Analysis Date: 03/09/2012 | | Seq No: 4531828 | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| Anthracene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Atrazine | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Benz(a)anthracene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Benzaldehyde | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Benzo(a)pyrene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Benzo(b)fluoranthene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Benzo(g,h,i)perylene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Benzo(k)fluoranthene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Bis(2-chloroethoxy)methane | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Bis(2-chloroethyl)ether | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Bis(2-chloroisopropyl)ether | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Bis(2-ethylhexyl)phthalate | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Butyl benzyl phthalate | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Caprolactam | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Carbazole | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Chrysene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Di-n-butyl phthalate | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Di-n-octyl phthalate | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dibenz(a,h)anthracene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dibenzofuran | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Diethyl phthalate | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dimethyl phthalate | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Fluoranthene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Fluorene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hexachlorobenzene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hexachlorobutadiene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hexachlorocyclopentadiene | BRL | 660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158690**

| | | | | | | | | | | | |
|-----------------------------|--|------------------------|-----------|-------------|------|----------------------------------|------------------------|-------------|------|-----------|------|
| Sample ID: MB-158690 | Client ID: | Units: ug/Kg | | | | Prep Date: 03/08/2012 | Run No: 216759 | | | | |
| SampleType: MBLK | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | BatchID: 158690 | | | | Analysis Date: 03/09/2012 | Seq No: 4531828 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|------|---|------|------|-----|---|---|---|--|
| Hexachloroethane | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Indeno(1,2,3-cd)pyrene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Isophorone | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| N-Nitrosodi-n-propylamine | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| N-Nitrosodiphenylamine | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Naphthalene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Nitrobenzene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pentachlorophenol | BRL | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Phenanthrene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Phenol | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pyrene | BRL | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Surr: 2,4,6-Tribromophenol | 2992 | 0 | 3333 | 0 | 89.8 | 41.1 | 130 | 0 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 1430 | 0 | 1667 | 0 | 85.8 | 45 | 120 | 0 | 0 | 0 | |
| Surr: 2-Fluorophenol | 2365 | 0 | 3333 | 0 | 71 | 35 | 120 | 0 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 1680 | 0 | 1667 | 0 | 101 | 50.1 | 123 | 0 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 1253 | 0 | 1667 | 0 | 75.2 | 37.5 | 120 | 0 | 0 | 0 | |
| Surr: Phenol-d5 | 2535 | 0 | 3333 | 0 | 76.1 | 39 | 120 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|------------------------------|--|-----------|-----------|-------------|------|------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: LCS-158690 | Client ID: | | | | | Units: ug/Kg | Prep Date: 03/08/2012 | Run No: 216759 | | | |
| SampleType: LCS | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | | | | | BatchID: 158690 | Analysis Date: 03/09/2012 | Seq No: 4531829 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|---------------------------|------|------|------|---|------|------|-----|---|---|---|--|
| 2,4-Dinitrotoluene | 2601 | 330 | 3333 | 0 | 78 | 57.6 | 120 | 0 | 0 | 0 | |
| 2-Chlorophenol | 2686 | 330 | 3333 | 0 | 80.6 | 59 | 120 | 0 | 0 | 0 | |
| 4-Chloro-3-methylphenol | 2805 | 330 | 3333 | 0 | 84.2 | 55.1 | 120 | 0 | 0 | 0 | |
| 4-Nitrophenol | 2123 | 1700 | 3333 | 0 | 63.7 | 40 | 116 | 0 | 0 | 0 | |
| Acenaphthene | 2741 | 330 | 3333 | 0 | 82.2 | 59 | 120 | 0 | 0 | 0 | |
| N-Nitrosodi-n-propylamine | 2691 | 330 | 3333 | 0 | 80.7 | 59.4 | 120 | 0 | 0 | 0 | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158690**

| | | | | | | | | | | | |
|------------------------------|--|-----------|-----------|-------------|------|------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: LCS-158690 | Client ID: | | | | | Units: ug/Kg | Prep Date: 03/08/2012 | Run No: 216759 | | | |
| SampleType: LCS | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | | | | | BatchID: 158690 | Analysis Date: 03/09/2012 | Seq No: 4531829 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|------|---|------|------|-----|---|---|---|--|
| Pentachlorophenol | 2661 | 1700 | 3333 | 0 | 79.8 | 44.6 | 120 | 0 | 0 | 0 | |
| Phenol | 2443 | 330 | 3333 | 0 | 73.3 | 55.1 | 120 | 0 | 0 | 0 | |
| Pyrene | 2981 | 330 | 3333 | 0 | 89.4 | 62.8 | 123 | 0 | 0 | 0 | |
| Surr: 2,4,6-Tribromophenol | 3400 | 0 | 3333 | 0 | 102 | 41.1 | 130 | 0 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 1482 | 0 | 1667 | 0 | 88.9 | 45 | 120 | 0 | 0 | 0 | |
| Surr: 2-Fluorophenol | 2665 | 0 | 3333 | 0 | 80 | 35 | 120 | 0 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 1716 | 0 | 1667 | 0 | 103 | 50.1 | 123 | 0 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 1311 | 0 | 1667 | 0 | 78.6 | 37.5 | 120 | 0 | 0 | 0 | |
| Surr: Phenol-d5 | 2850 | 0 | 3333 | 0 | 85.5 | 39 | 120 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|----------------------------------|--|-----------|-----------|-------------|-------------------------|----------------------------------|------------------------|-------------|------|-----------|------|
| Sample ID: 1203552-003CMS | Client ID: | | | | Units: ug/Kg-dry | Prep Date: 03/08/2012 | Run No: 216759 | | | | |
| SampleType: MS | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | | | | BatchID: 158690 | Analysis Date: 03/09/2012 | Seq No: 4531917 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|------|---|------|------|-----|---|---|---|--|
| 2,4-Dinitrotoluene | 2985 | 380 | 3816 | 0 | 78.2 | 40.3 | 120 | 0 | 0 | 0 | |
| 2-Chlorophenol | 2930 | 380 | 3816 | 0 | 76.8 | 44.8 | 120 | 0 | 0 | 0 | |
| 4-Chloro-3-methylphenol | 3047 | 380 | 3816 | 0 | 79.9 | 45.1 | 120 | 0 | 0 | 0 | |
| 4-Nitrophenol | 2426 | 1900 | 3816 | 0 | 63.6 | 30.4 | 120 | 0 | 0 | 0 | |
| Acenaphthene | 2982 | 380 | 3816 | 0 | 78.1 | 50.4 | 120 | 0 | 0 | 0 | |
| N-Nitrosodi-n-propylamine | 2832 | 380 | 3816 | 0 | 74.2 | 50.8 | 120 | 0 | 0 | 0 | |
| Pentachlorophenol | 2980 | 1900 | 3816 | 0 | 78.1 | 31.1 | 120 | 0 | 0 | 0 | |
| Phenol | 2639 | 380 | 3816 | 0 | 69.2 | 43.9 | 120 | 0 | 0 | 0 | |
| Pyrene | 3243 | 380 | 3816 | 0 | 85 | 47.9 | 115 | 0 | 0 | 0 | |
| Surr: 2,4,6-Tribromophenol | 3711 | 0 | 3816 | 0 | 97.3 | 41.1 | 130 | 0 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 1601 | 0 | 1908 | 0 | 83.9 | 45 | 120 | 0 | 0 | 0 | |
| Surr: 2-Fluorophenol | 2895 | 0 | 3816 | 0 | 75.9 | 35 | 120 | 0 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 1828 | 0 | 1908 | 0 | 95.8 | 50.1 | 123 | 0 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 1395 | 0 | 1908 | 0 | 73.1 | 37.5 | 120 | 0 | 0 | 0 | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158690**

| | | | | | | | | | | | |
|----------------------------------|--|-----------|-----------|-------------|-------------------------|-----------|----------------------------------|-------------|------------------------|-----------|------|
| Sample ID: 1203552-003CMS | Client ID: | | | | Units: ug/Kg-dry | | Prep Date: 03/08/2012 | | Run No: 216759 | | |
| SampleType: MS | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | | | | BatchID: 158690 | | Analysis Date: 03/09/2012 | | Seq No: 4531917 | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|-----------------|------|---|------|---|------|----|-----|---|---|---|--|
| Surr: Phenol-d5 | 3019 | 0 | 3816 | 0 | 79.1 | 39 | 120 | 0 | 0 | 0 | |
|-----------------|------|---|------|---|------|----|-----|---|---|---|--|

| | | | | | | | | | | | |
|-----------------------------------|--|-----------|-----------|-------------|-------------------------|-----------|----------------------------------|-------------|------------------------|-----------|------|
| Sample ID: 1203552-003CMSD | Client ID: | | | | Units: ug/Kg-dry | | Prep Date: 03/08/2012 | | Run No: 216759 | | |
| SampleType: MSD | TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D | | | | BatchID: 158690 | | Analysis Date: 03/09/2012 | | Seq No: 4531919 | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|------|------|------|---|------|------|-----|------|-------|------|--|
| 2,4-Dinitrotoluene | 3006 | 380 | 3823 | 0 | 78.6 | 40.3 | 120 | 2985 | 0.672 | 20.9 | |
| 2-Chlorophenol | 2970 | 380 | 3823 | 0 | 77.7 | 44.8 | 120 | 2930 | 1.35 | 21.7 | |
| 4-Chloro-3-methylphenol | 3104 | 380 | 3823 | 0 | 81.2 | 45.1 | 120 | 3047 | 1.85 | 23 | |
| 4-Nitrophenol | 2440 | 1900 | 3823 | 0 | 63.8 | 30.4 | 120 | 2426 | 0.577 | 24.1 | |
| Acenaphthene | 2995 | 380 | 3823 | 0 | 78.3 | 50.4 | 120 | 2982 | 0.443 | 21.3 | |
| N-Nitrosodi-n-propylamine | 2834 | 380 | 3823 | 0 | 74.1 | 50.8 | 120 | 2832 | 0.065 | 20.4 | |
| Pentachlorophenol | 2884 | 1900 | 3823 | 0 | 75.4 | 31.1 | 120 | 2980 | 3.27 | 20.6 | |
| Phenol | 2656 | 380 | 3823 | 0 | 69.5 | 43.9 | 120 | 2639 | 0.647 | 21 | |
| Pyrene | 3221 | 380 | 3823 | 0 | 84.2 | 47.9 | 115 | 3243 | 0.675 | 18.9 | |
| Surr: 2,4,6-Tribromophenol | 3738 | 0 | 3823 | 0 | 97.8 | 41.1 | 130 | 3711 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 1630 | 0 | 1912 | 0 | 85.3 | 45 | 120 | 1601 | 0 | 0 | |
| Surr: 2-Fluorophenol | 2932 | 0 | 3823 | 0 | 76.7 | 35 | 120 | 2895 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 1788 | 0 | 1912 | 0 | 93.5 | 50.1 | 123 | 1828 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 1437 | 0 | 1912 | 0 | 75.2 | 37.5 | 120 | 1395 | 0 | 0 | |
| Surr: Phenol-d5 | 3065 | 0 | 3823 | 0 | 80.2 | 39 | 120 | 3019 | 0 | 0 | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158781**

| | | | | | | | | | | | |
|-----------------------------|--|-----------|-----------|-------------|------------------------|----------------------------------|------------------------|-------------|------|-----------|------|
| Sample ID: MB-158781 | Client ID: | | | | Units: ug/Kg | Prep Date: 03/12/2012 | Run No: 217031 | | | | |
| SampleType: MBLK | TestCode: CHLORINATED PESTICIDES, TCL SW8081B | | | | BatchID: 158781 | Analysis Date: 03/14/2012 | Seq No: 4537573 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|---|------|------|-----|---|---|---|--|
| 4,4'-DDD | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4,4'-DDE | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4,4'-DDT | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Aldrin | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| alpha-BHC | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| alpha-Chlordane | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| beta-BHC | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| delta-BHC | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dieldrin | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endosulfan I | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endosulfan II | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endosulfan sulfate | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endrin | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endrin aldehyde | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endrin ketone | BRL | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| gamma-BHC | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| gamma-Chlordane | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Heptachlor | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Heptachlor epoxide | BRL | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Methoxychlor | BRL | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Toxaphene | BRL | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Surr: Decachlorobiphenyl | 15.74 | 0 | 16.67 | 0 | 94.4 | 26.2 | 127 | 0 | 0 | 0 | |
| Surr: Tetrachloro-m-xylene | 14.82 | 0 | 16.67 | 0 | 88.9 | 26.9 | 121 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|------------------------------|--|-----------|-----------|-------------|------|------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: LCS-158781 | Client ID: | | | | | Units: ug/Kg | Prep Date: 03/12/2012 | Run No: 217031 | | | |
| SampleType: LCS | TestCode: CHLORINATED PESTICIDES, TCL SW8081B | | | | | BatchID: 158781 | Analysis Date: 03/14/2012 | Seq No: 4537574 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT**BatchID: 158781**

| | | | | | | | | | | | |
|------------------------------|--|-----------|-----------|-------------|------------------------|----------------------------------|------------------------|-------------|------|-----------|------|
| Sample ID: LCS-158781 | Client ID: | | | | Units: ug/Kg | Prep Date: 03/12/2012 | Run No: 217031 | | | | |
| SampleType: LCS | TestCode: CHLORINATED PESTICIDES, TCL SW8081B | | | | BatchID: 158781 | Analysis Date: 03/14/2012 | Seq No: 4537574 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|---|------|------|-----|---|---|---|--|
| 4,4'-DDT | 32.57 | 3.3 | 41.67 | 0 | 78.2 | 44.5 | 138 | 0 | 0 | 0 | |
| Aldrin | 11.30 | 1.7 | 16.67 | 0 | 67.8 | 42.9 | 125 | 0 | 0 | 0 | |
| Dieldrin | 33.16 | 3.3 | 41.67 | 0 | 79.6 | 47.5 | 132 | 0 | 0 | 0 | |
| Endrin | 32.81 | 3.3 | 41.67 | 0 | 78.7 | 44.8 | 139 | 0 | 0 | 0 | |
| gamma-BHC | 11.11 | 1.7 | 16.67 | 0 | 66.6 | 40.8 | 130 | 0 | 0 | 0 | |
| Heptachlor | 11.25 | 1.7 | 16.67 | 0 | 67.5 | 38.8 | 134 | 0 | 0 | 0 | |
| Surr: Decachlorobiphenyl | 14.68 | 0 | 16.67 | 0 | 88.1 | 26.2 | 127 | 0 | 0 | 0 | |
| Surr: Tetrachloro-m-xylene | 12.04 | 0 | 16.67 | 0 | 72.2 | 26.9 | 121 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|---------------------------|---|-----------|-----------|-------------|------|------------------|---------------------------|-----------------|------|-----------|------|
| Sample ID: 1203727-004CMS | Client ID: | | | | | Units: ug/Kg-dry | Prep Date: 03/12/2012 | Run No: 217031 | | | |
| SampleType: MS | TestCode: CHLORINATED PESTICIDES, TCL SW8081B | | | | | BatchID: 158781 | Analysis Date: 03/14/2012 | Seq No: 4537579 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--------|------|------|-----|---|---|---|--|
| 4,4'-DDT | 47.16 | 3.9 | 48.4 | 10.40 | 75.9 | 25.1 | 151 | 0 | 0 | 0 | |
| Aldrin | 14.67 | 1.9 | 19.36 | 0 | 75.7 | 31.4 | 127 | 0 | 0 | 0 | |
| Dieldrin | 38.09 | 3.9 | 48.4 | 0 | 78.7 | 33.5 | 137 | 0 | 0 | 0 | |
| Endrin | 41.40 | 3.9 | 48.4 | 0 | 85.5 | 37.1 | 149 | 0 | 0 | 0 | |
| gamma-BHC | 15.92 | 1.9 | 19.36 | 0.7639 | 78.3 | 35.8 | 129 | 0 | 0 | 0 | |
| Heptachlor | 15.70 | 1.9 | 19.36 | 0 | 81.1 | 30.8 | 131 | 0 | 0 | 0 | |
| Surr: Decachlorobiphenyl | 14.77 | 0 | 19.36 | 0 | 76.3 | 26.2 | 127 | 0 | 0 | 0 | |
| Surr: Tetrachloro-m-xylene | 14.43 | 0 | 19.36 | 0 | 74.5 | 26.9 | 121 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|-----------------------------------|--|-----------|-----------|-------------|------|-------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: 1203727-004CMSD | Client ID: | | | | | Units: ug/Kg-dry | Prep Date: 03/12/2012 | Run No: 217031 | | | |
| SampleType: MSD | TestCode: CHLORINATED PESTICIDES, TCL SW8081B | | | | | BatchID: 158781 | Analysis Date: 03/14/2012 | Seq No: 4537584 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------|-------|-----|-------|-------|------|------|-----|-------|-------|------|--|
| 4,4'-DDT | 45.89 | 3.9 | 48.4 | 10.40 | 73.3 | 25.1 | 151 | 47.16 | 2.72 | 37.7 | |
| Aldrin | 14.74 | 1.9 | 19.36 | 0 | 76.1 | 31.4 | 127 | 14.67 | 0.474 | 32.3 | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |

Client: Oneida Total Integrated Enterprises
Project Name: Black Leaf Chemical Company
Workorder: 1203416

ANALYTICAL QC SUMMARY REPORT

BatchID: 158781

| | | | | | | | | | | | |
|----------------------------|--------|---|-----------|-------------|------|------------------|------------|---------------------------|-------|-----------------|------|
| Sample ID: 1203727-004CMSD | | Client ID: | | | | Units: ug/Kg-dry | | Prep Date: 03/12/2012 | | Run No: 217031 | |
| SampleType: MSD | | TestCode: CHLORINATED PESTICIDES, TCL SW8081B | | | | BatchID: 158781 | | Analysis Date: 03/14/2012 | | Seq No: 4537584 | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| Dieldrin | 37.51 | 3.9 | 48.4 | 0 | 77.5 | 33.5 | 137 | 38.09 | 1.55 | 30.8 | |
| Endrin | 41.13 | 3.9 | 48.4 | 0 | 85 | 37.1 | 149 | 41.40 | 0.651 | 34.9 | |
| gamma-BHC | 16.06 | 1.9 | 19.36 | 0.7639 | 79 | 35.8 | 129 | 15.92 | 0.874 | 31.3 | |
| Heptachlor | 15.79 | 1.9 | 19.36 | 0 | 81.5 | 30.8 | 131 | 15.70 | 0.566 | 30.8 | |
| Surr: Decachlorobiphenyl | 14.74 | 0 | 19.36 | 0 | 76.1 | 26.2 | 127 | 14.77 | 0 | 0 | |
| Surr: Tetrachloro-m-xylene | 15.23 | 0 | 19.36 | 0 | 78.7 | 26.9 | 121 | 14.43 | 0 | 0 | |

| | | | | | | |
|-------------|---------|--|---|---|---|--|
| Qualifiers: | > | Greater than Result value | < | Less than Result value | B | Analyte detected in the associated method blank |
| | BRL | Below reporting limit | E | Estimated (value above quantitation range) | H | Holding times for preparation or analysis exceeded |
| | J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified | R | RPD outside limits due to matrix |
| | Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix | | |
| | | | | | | |

Appendix D – Photocopies of Field Logbooks

77 total pages

United States Environmental Protection Agency
Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720



BLACKLEAF CHEMICAL SUPERFUND SITE
LOUISVILLE, KENTUCKY
SESD PROJECET NUMBER 12-0195
PROJECT LEADER: DON HUNTER

FIELD SAMPLING LOGBOOK

Book 1 of 3
Inclusive Dates: 2/14-15/12

List of personnel in logbook:

| Name | Initials | Organization/Duties |
|----------------------------|-----------|---------------------------------------|
| <u>Don Hunter</u> | <u>DH</u> | <u>EPA, SESD, Team Leader, Sample</u> |
| <u>Stacey DeLaReintrie</u> | <u>SD</u> | <u>OTIE, Sample</u> |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

SAMPLE COLLECTION AND IDENTIFICATION INSTRUCTIONS

Unless otherwise noted, the following procedures will be followed for collection and identification of soil samples collected for this investigation.

Sample Collection – Residential Properties

Following procedures in SESDPROC-300-R2, each sample will be collected as a four to five-point composite of the 0-inches to 4-inches below ground surface (bgs) interval. The number and locations for these aliquots will be determined in the field by the sample team leader and will be based on considerations such as the size of the yard and the presence of structures, trees, shrubs and landscaping treatments. No aliquot will be collected within 10 feet of any identifiable burn pile, stained soil or storage areas. A sketch of the yard and sample locations will be drawn in the field log book. The approximate center of the sample aliquot pattern will be located and logged using a mapping-grade Trimble global positioning system (GPS) receiver (SESDPROC-110-R2, Global Positioning System). The coordinates will also be noted in this field logbook.

Samples will be collected using stainless steel hand augers and will be placed in a glass pan and mixed, using the quartering method, with a stainless steel spoon. When the sample has been thoroughly homogenized, it will be portioned into two 8-ounce glass sample jars, one for metals and one for pesticides/semi-volatile organics.

Sample Collection - On-Site Samples

Surface and subsurface samples will be collected as grab samples from locations designated by OSC Smith. The surface soil sample interval will be approximately 0" – 6" bgs. The subsurface sample will be collected over the 12" – 18" bgs interval or other interval, as directed by OSC Smith. All samples will be placed in glass pans and homogenized using the quartering method prior to containerization. A sketch will be prepared in this logbook, identifying the location of the sample and any nearby or adjacent site features. The sample location will be logged using a mapping-grade Trimble global positioning system (GPS) receiver (SESDPROC-110-R2, Global Positioning System). The coordinates will also be noted in this field logbook.

Sample Nomenclature

Residential Samples:

The station ID for each sample will consist of a two letter street identifier, where:

WA = Wilson Avenue
SL = St. Louis Avenue
DH = Dixie Highway
SF = South 15th Street

and a four digit address code corresponding to the residence's street address. Samples collected from front yards will have the same station ID as the backyard samples with an "X" appended.

The sample ID will be the station ID with "SF" appended, to indicate a surface soil sample. Co-located duplicate samples will be collected from five percent of the sampled locations and will be indicated by appending a "D" to the sample ID. For example, the primary sample collected in the backyard at 1700 St. Louis Avenue would be identified as SL1700SF. The front yard sample would be identified as SL1700XSF. If there was a co-located duplicate, also collected from the front yard, it would be identified as SL1700XSFD.

On-Site Samples:

The station ID for each on-site sample will consist of two letters, BC (Blackleaf Chemical), followed by a sequential series of two digits, beginning with "01", and ending in either "SF", for surface soil, or "SB" for subsurface soil. If a duplicate sample is collected, a "D" will be appended to the end of the given sample ID. Locations for on-site samples will be determined in the field and prescribed by the On-Scene Coordinator for the site.

Date: 2/14/12 Station ID: OH1389 Sample ID: OH1389 SE

Sample Team: _____ or Init. DH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.23231 N Longitude 85.788383 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: Unit 1 Logged? (Y or N) _____

File name and back-up location (laptop, thumb drive, etc.) 4021415A

Same for all samples in book

Description of sample location (Street address and front or back yard):

1389 Dixie Hwy

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material DK brown clayey silt / loam

Other pertinent information (weather conditions, etc.):

Cold, snow on ground

SAMPLE COLLECTION TIME: 1000

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

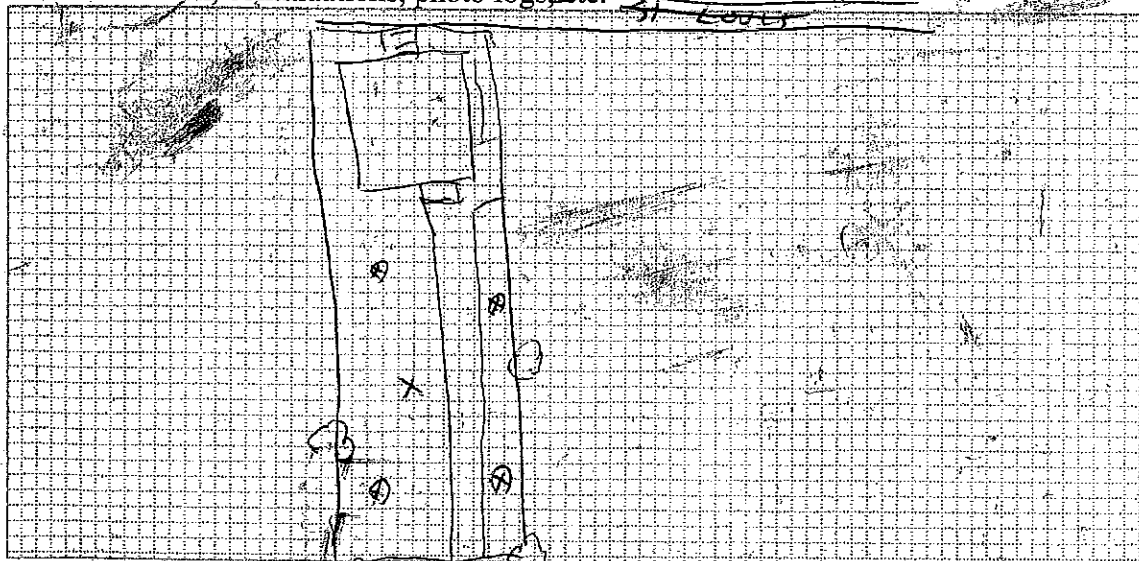
| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | ✓ | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | ✓ | ✓ | Ice to 4 deg C |
| Semivolatile Organics | | | | |

+ to help for XRF

MS/MSD? Y or (N)

[✓] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: DH1385 Sample ID: DH1385 SF

Sample Team: _____ or Init. DH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.732409 N Longitude: 85.788410 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1385 Dixie Highway

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dk brown loam

Other pertinent information (weather conditions, etc.):

Cold, sl drizzle

SAMPLE COLLECTION TIME: 1030

Field Duplicate: Yes or No

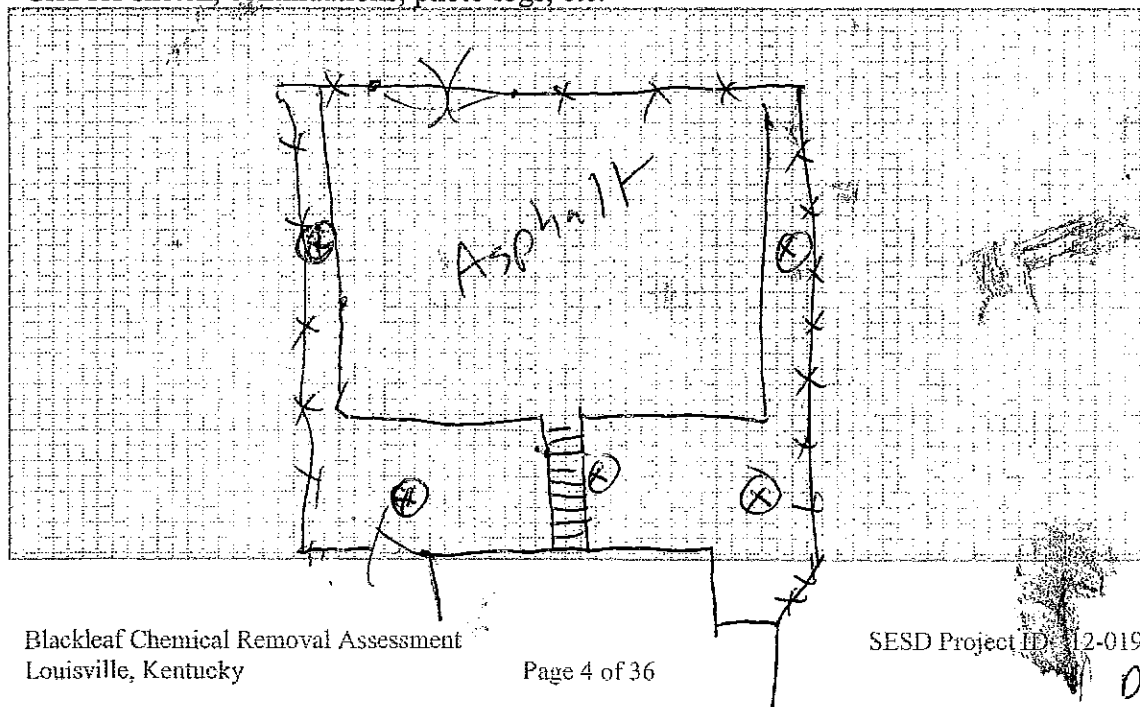
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N [☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1752 Sample ID: SL1752SF

Sample Team: _____ or Init. DLH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232552 N Longitude: 85.787960 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1752

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material med f. dk brown loam

Other pertinent information (weather conditions, etc.):

Cool & dry

SAMPLE COLLECTION TIME: 1700

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

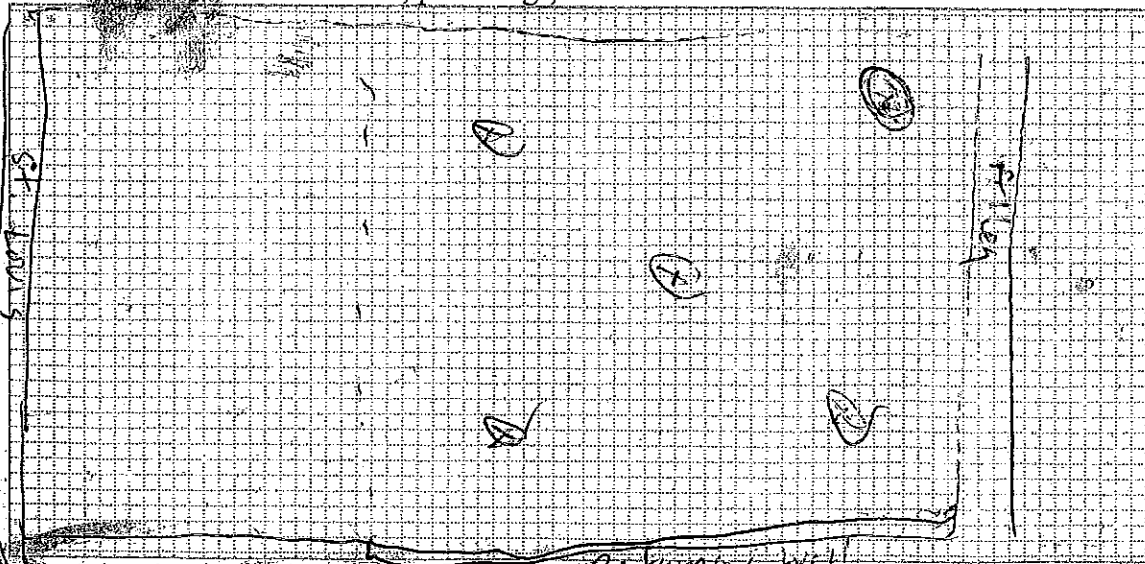
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? (Y) or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1750 Sample ID: SL1750 SE

Sample Team: _____ or Init. DH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232523 N Longitude: 85.787842 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1750 St. Louis

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dr. brown log m

Other pertinent information (weather conditions, etc.):

Cold st drizzle

SAMPLE COLLECTION TIME: 1200

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

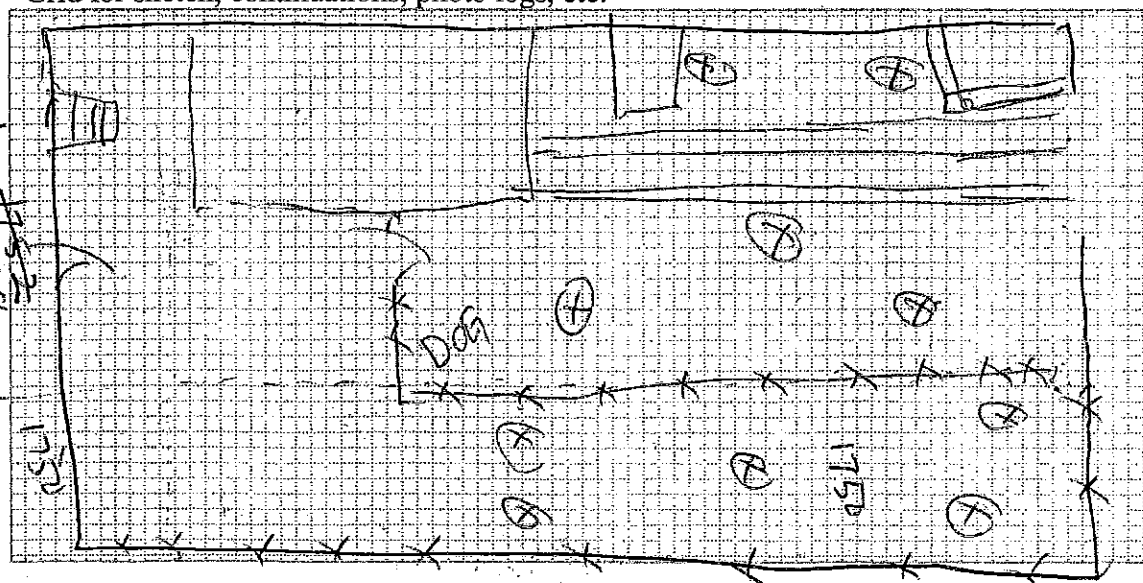
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1748 Sample ID: SL1748SF

Sample Team: _____ or Init. dit

_____ or Init. SD

_____ or Init. _____

GPS Coordinates: Latitude: 38.232468 N Longitude: 85.787218 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1748 St. Louis

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dark brown loam

Other pertinent information (weather conditions, etc.):

Cold sl drizzle

SAMPLE COLLECTION TIME: 1215

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

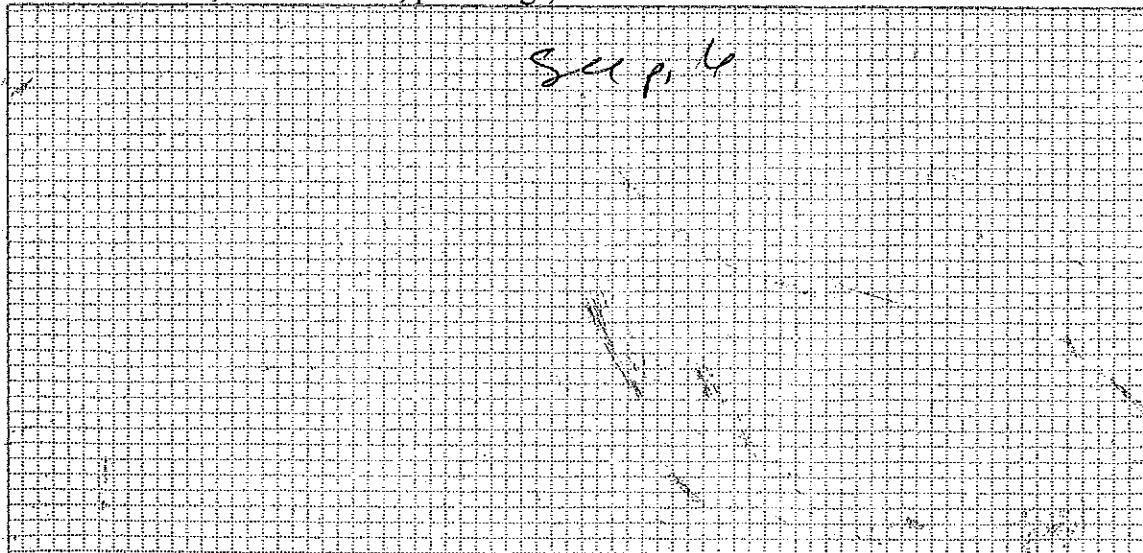
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1742X Sample ID: SL17425FX

Sample Team: _____ or Init. DH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232680 N Longitude 85.782441 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1742 St. Louis (Front yard)

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Med brown loam

Other pertinent information (weather conditions, etc.):

Cold overcast

SAMPLE COLLECTION TIME: 1350 1345 DH 2/14/12

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

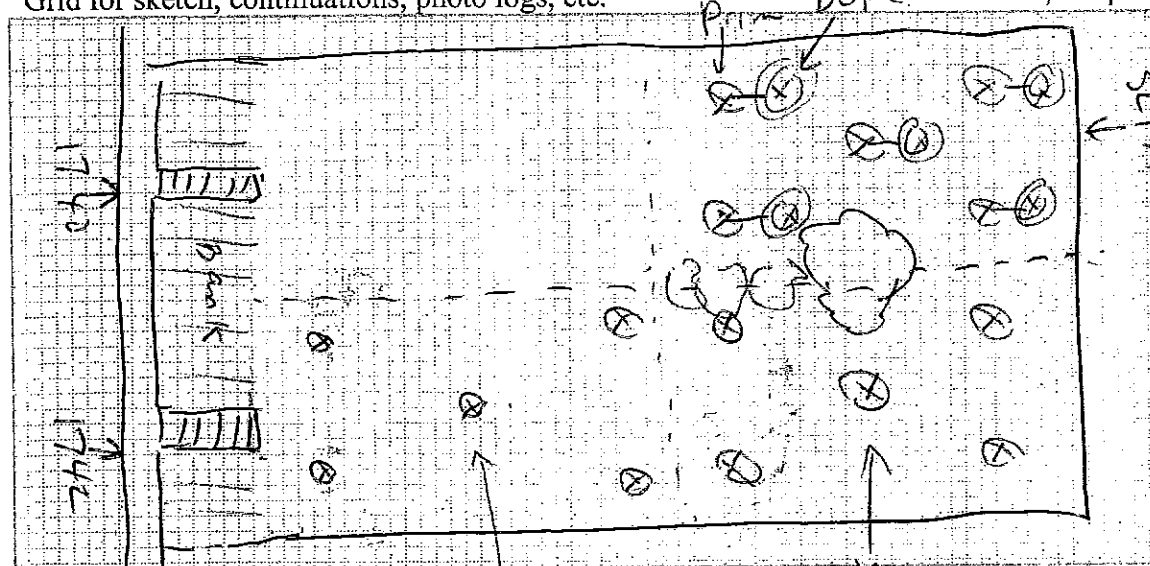
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



DH
2/14/12

Date: 2/14/12 Station ID: SL1742 Sample ID: SL1742SF

Sample Team: _____ or Init. DH

_____ or Init. SD

_____ or Init. _____

GPS Coordinates: Latitude: 38.232471 N Longitude: 85.787516 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1742 St Louis

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Medium bran 0.4m

Other pertinent information (weather conditions, etc.):

Cold 0.4m

SAMPLE COLLECTION TIME: 1405

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

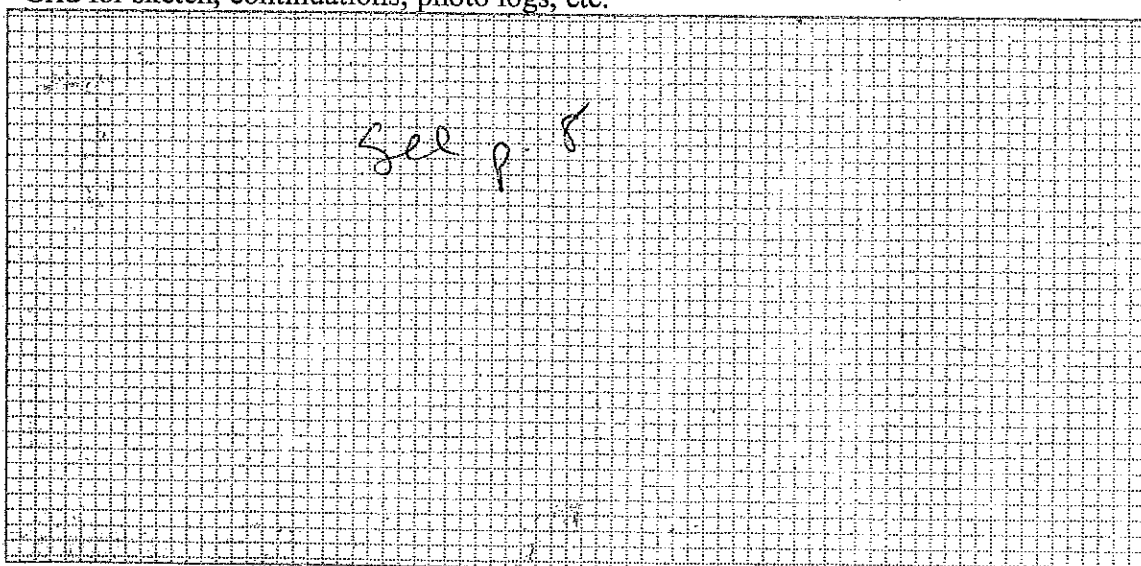
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1740 Sample ID: SL1740SF

Sample Team: _____ or Init. DH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232471 N Longitude 85.787426 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1740 St. Louis

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Mix orange brown + med brown 16m

Other pertinent information (weather conditions, etc.):

Cold overcast breezy

SAMPLE COLLECTION TIME: 1430

Field Duplicate: (Yes) or No

Duplicate sample station ID: SL1740 Sample ID Date and Time: SL1740SF D

Laboratory Analyses and containers:

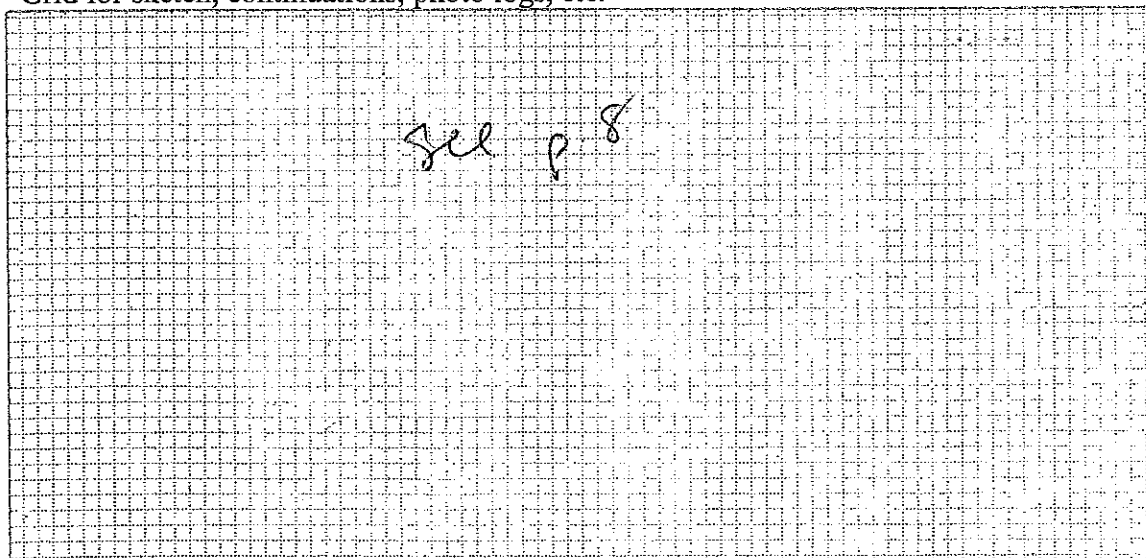
2/14/12; 1440

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1736 Sample ID: SL1736 SF

Sample Team: _____ or Init. DH
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232431 N Longitude 85.787221 W

Garmin [] Serial Number _____ Accuracy 28 feet in

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1736 St Louis (back)

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dk brown loam

Other pertinent information (weather conditions, etc.):

Cold overcast

SAMPLE COLLECTION TIME: 1615

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

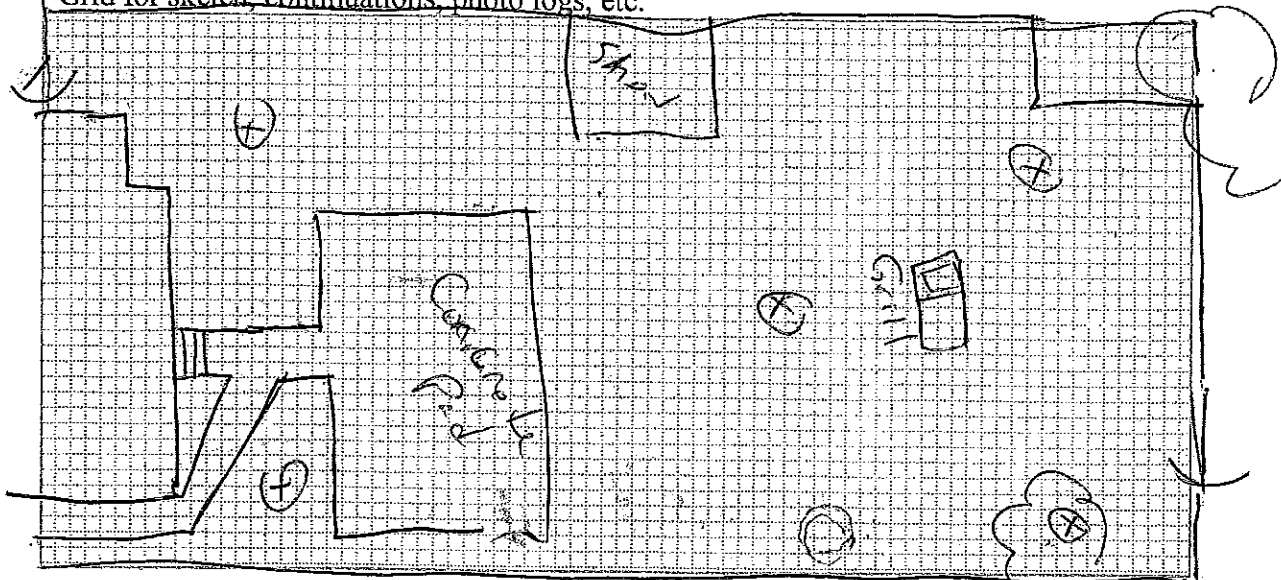
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SL1734 Sample ID: SL1734SF

Sample Team: _____ or Init. DH

_____ or Init. SD

_____ or Init. _____

GPS Coordinates: Latitude: 38.232463 N Longitude 85.787117 W

Garmin [] Serial Number _____ Accuracy 3.1 feet

Trimble [] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1734 St. Louis (back)

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Med-dk brown loam

Other pertinent information (weather conditions, etc.):

Cold, overcast breezy

SAMPLE COLLECTION TIME: 1648

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

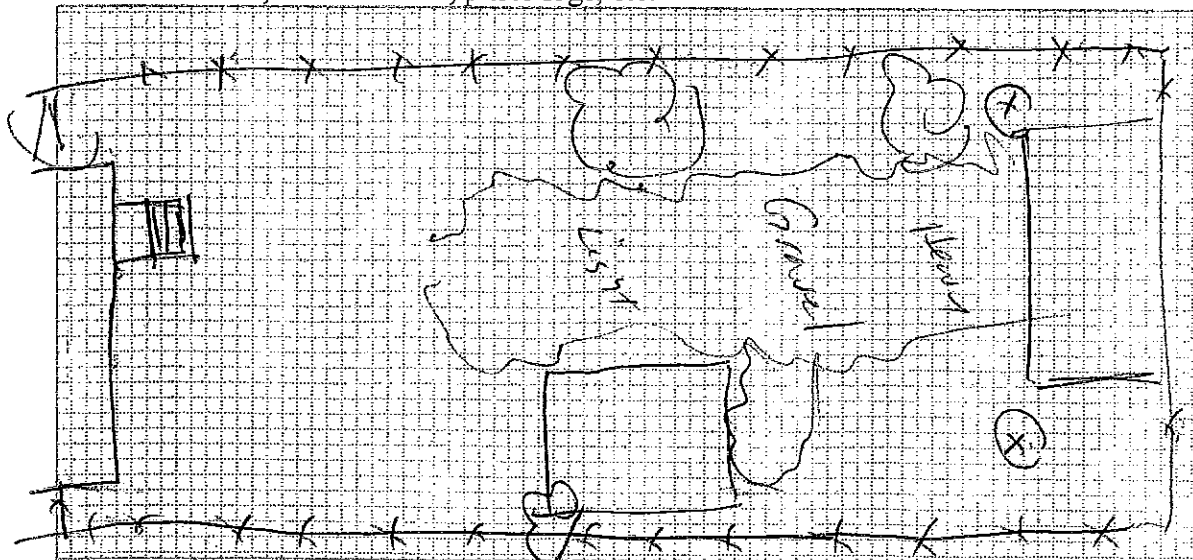
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | ✓ | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | ✓ | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

[✓] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



DH
2/14/12

Date: 2/14/12 Station ID: SL1732 Sample ID: SL1732SF

Sample Team: _____ or Init. DH
_____ or Init. SL
_____ or Init. _____

GPS Coordinates: Latitude: 38.232447 N Longitude 85.78703 W

Garmin [] Serial Number _____ Accuracy 3.8 feet

Trimble [] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1732 St. Louis

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Med - dk. brown loam

Other pertinent information (weather conditions, etc.):

Cold, breezy overcast

SAMPLE COLLECTION TIME: 1710

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

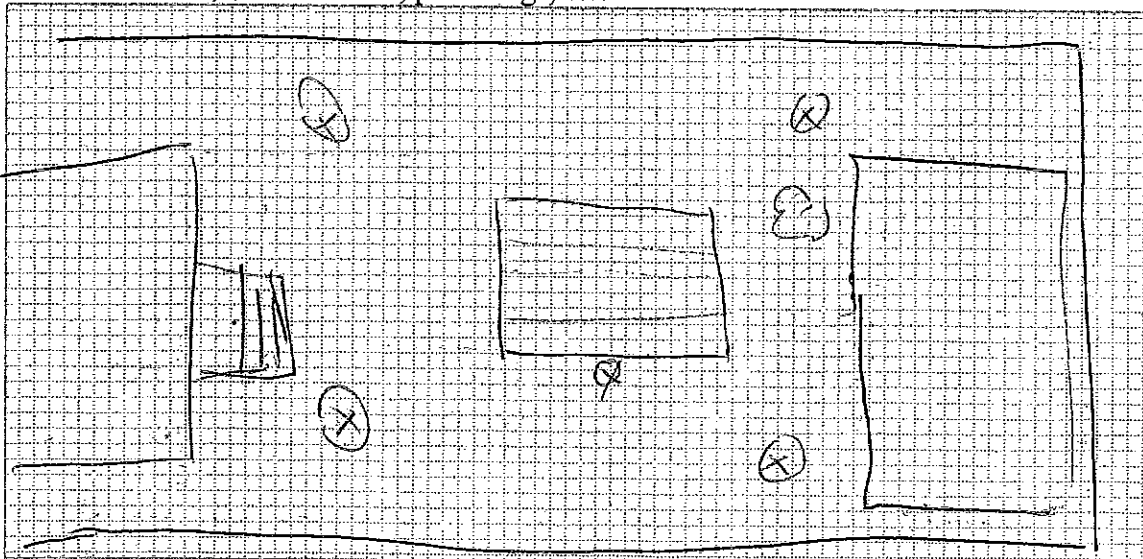
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | ✓ | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | ✓ | Ice to 4 deg C |
| Semivolatile Organics | | 1 | ✓ | |

MS/MSD? Y or (N)

[✓] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



OK
2/14/12

Date: 2/15/12 Station ID: SL172B Sample ID: SL172B SF

Sample Team: _____ or Init. bit

_____ or Init. SD

_____ or Init. _____

GPS Coordinates: Latitude: 38.232411 N Longitude: 85.786859 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) 4021511A

Description of sample location (Street address and front or back yard):

1728 St Louis (back)

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Med brown loam

Other pertinent information (weather conditions, etc.):

Cloudy cool

SAMPLE COLLECTION TIME: 0855 0900 OH 2/15/12

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

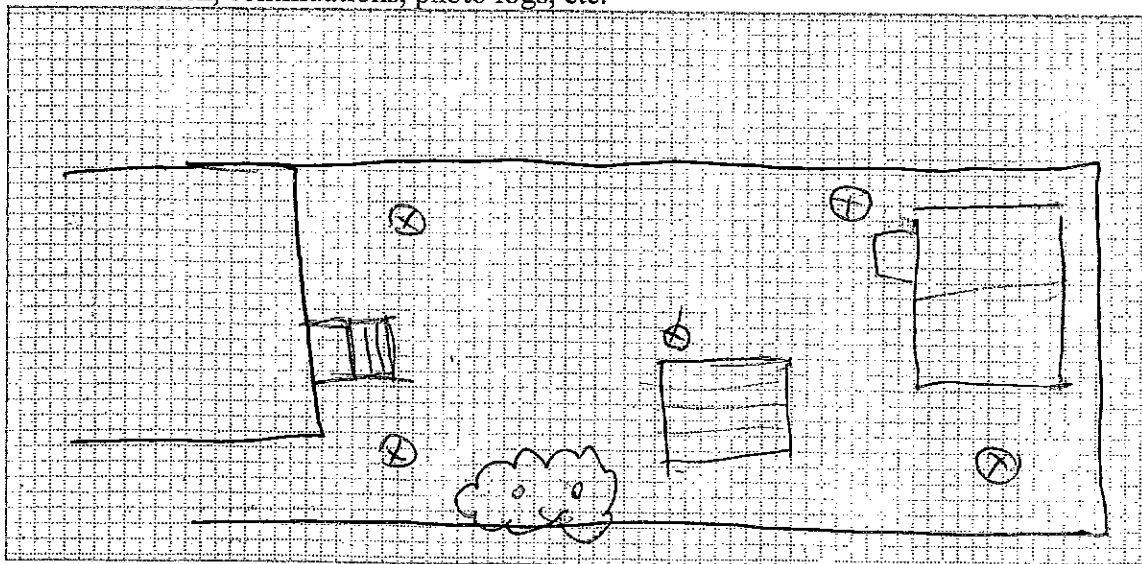
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL 1726 Sample ID: SL 1726 SF

Sample Team: _____ or Init. DLH

_____ or Init. SD

_____ or Init. _____

GPS Coordinates: Latitude: 38.232403 N Longitude: 85.786820 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1726 St Louis (back)

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Med brown loam

Other pertinent information (weather conditions, etc.):

Sun, cold

SAMPLE COLLECTION TIME: 0920

Field Duplicate: Yes or No → Pan spl. +

Duplicate sample station ID: _____ Sample ID Date and Time: SL 1726 SF 5

2/15/12 0920

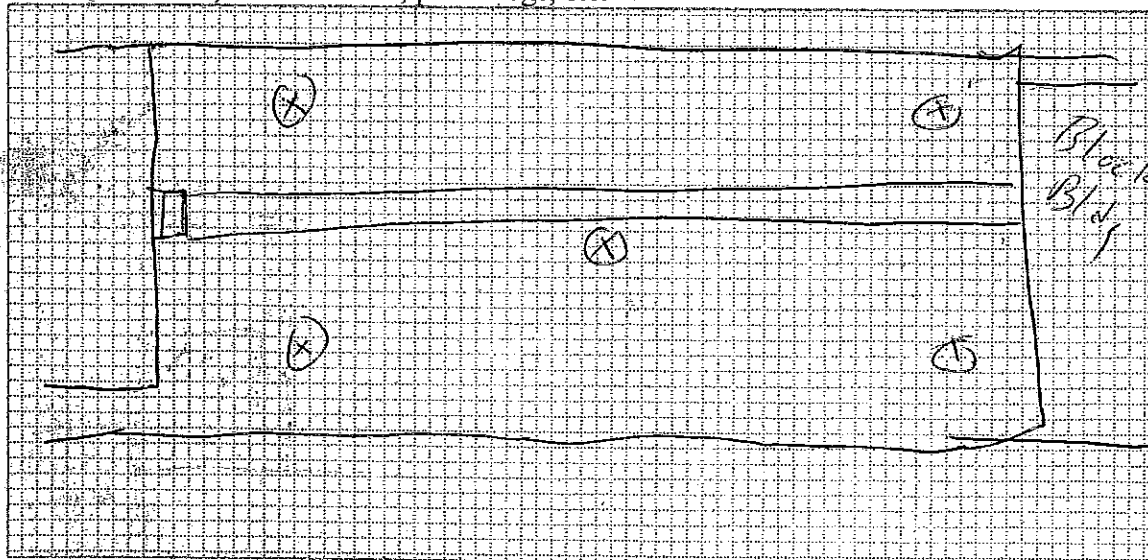
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL 1724 Sample ID: SL 1724 SF

Sample Team: _____ or Init. DL
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232387 N Longitude 85.786727 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1724 St. Louis (back)

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material

Other pertinent information (weather conditions, etc.):

Sunny, chilly

SAMPLE COLLECTION TIME: 0955

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

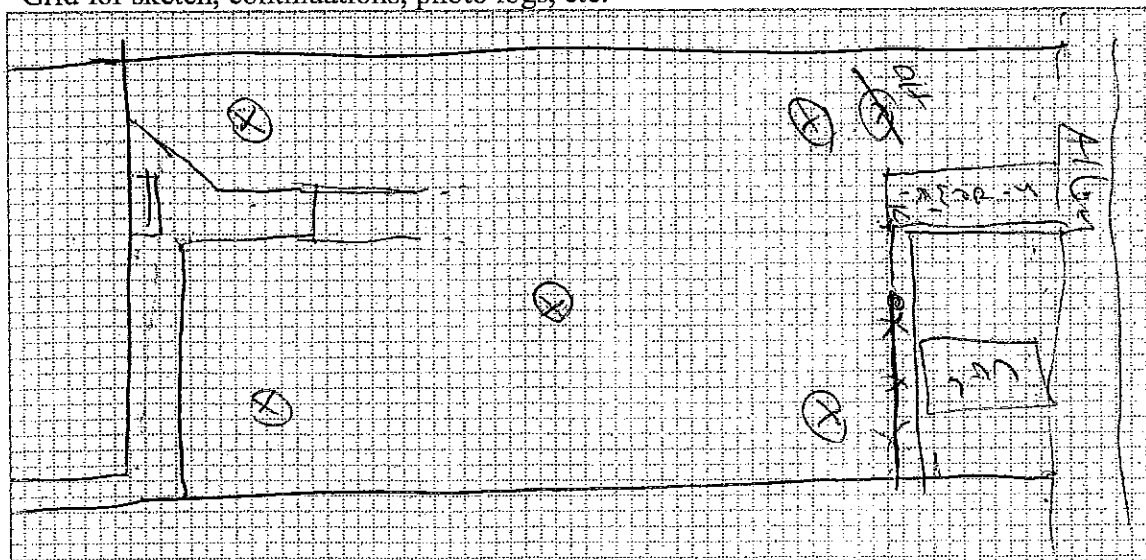
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1722 Sample ID: SL1722SF

Sample Team: _____ or Init. DH
_____ or Init. SH
_____ or Init. _____

GPS Coordinates: Latitude: 38.232412 N Longitude 85.786638 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1722 St. Louis (back) - vacant lot

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material _____

Other pertinent information (weather conditions, etc.):

Cool, broken overcast, breezy

SAMPLE COLLECTION TIME: 1015

Field Duplicate: Yes or (No)

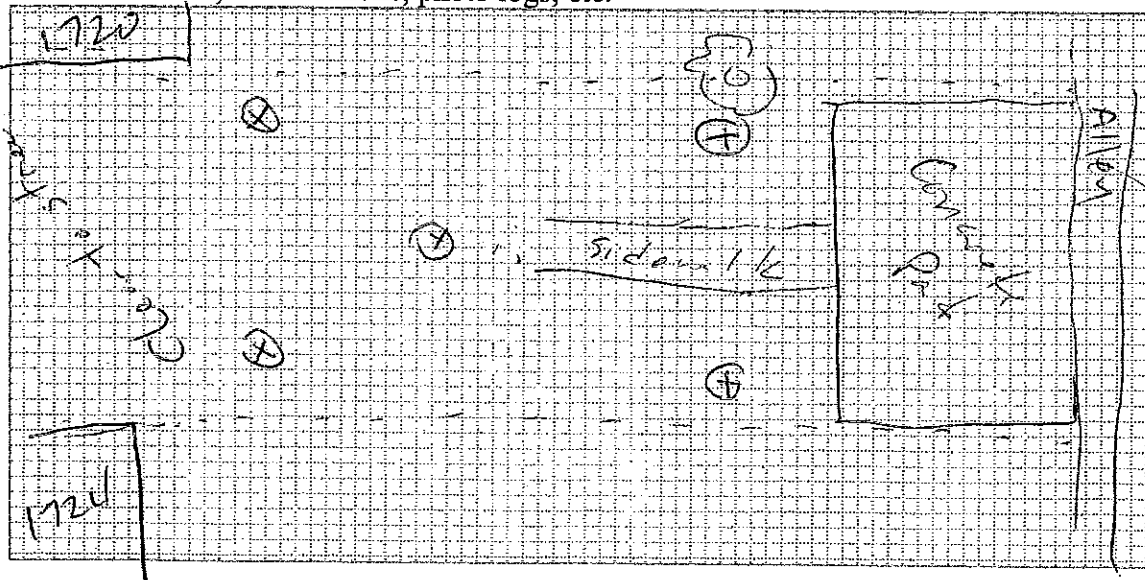
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N) [☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



2/15/12

Date: 2/15/12 Station ID: BC01 Sample ID: BC01SF

Sample Team: _____ or Init. DL
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232396 N Longitude 85.78089 W

Garmin [] Serial Number _____ Accuracy 27 feet/meters

Trimble [] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

East end of site to open area - coordinates of previous samples and
Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Surface 0"-3" tan clay w/ chert
Other pertinent information (weather conditions, etc.): 3"-12" black coarse gravelly sand

Overcast lt. drizzle

SAMPLE COLLECTION TIME: _____

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

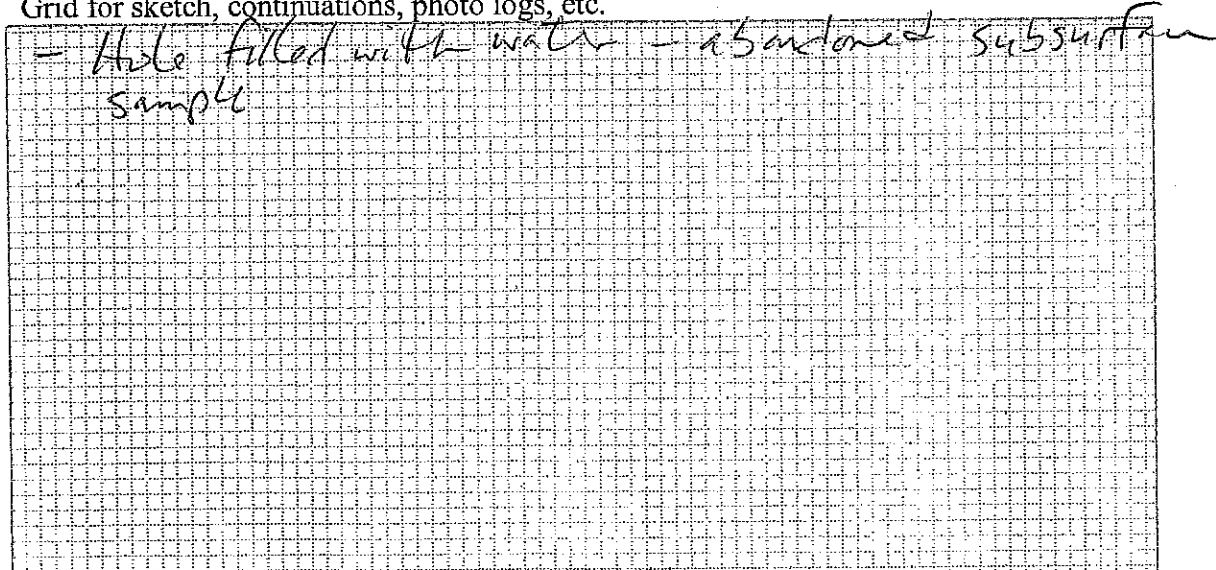
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



DL
2/15/12

Date: 2/15/12 Station ID: BC02 Sample ID: BC02SF

Sample Team: _____ or Init. pl
_____ or Init. SV
_____ or Init. _____

GPS Coordinates: Latitude: 38.23224 N Longitude 85.780298 W

Garmin [] Serial Number _____ Accuracy 30 feet in

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

East end of site in open area - coordinate of primarily
Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): sampled location

Description of Sample Material Dk gray brown - black gravelly coarse sand 0"-8"
Other pertinent information (weather conditions, etc.): 8"- compacted shale

Overcast, warmer, breezy

SAMPLE COLLECTION TIME: 1310

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

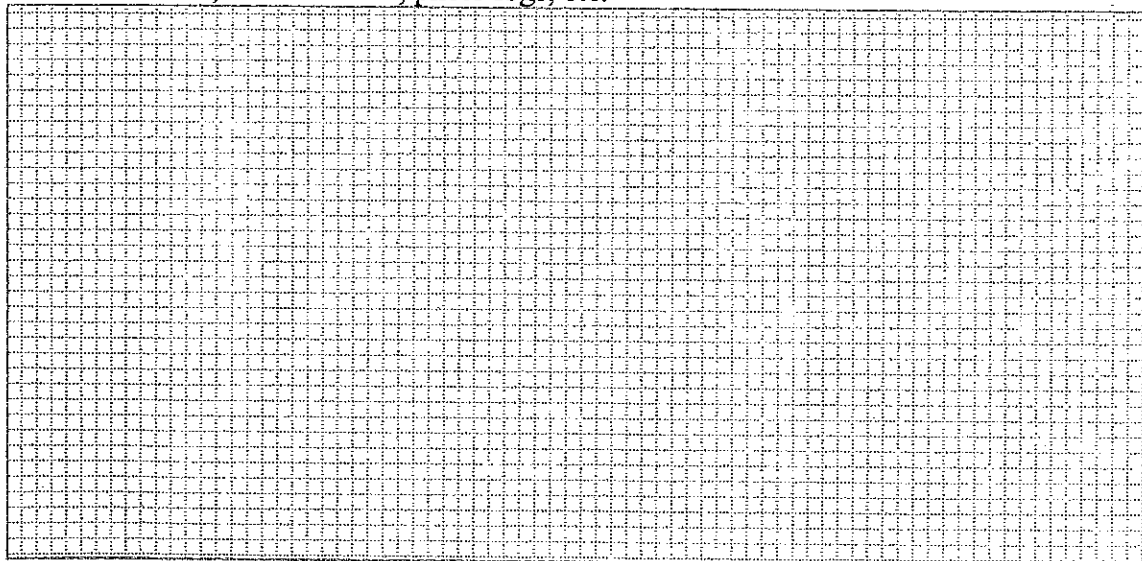
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: BC02 Sample ID: BC02SB

Sample Team: _____ or Init. DB
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude Same as BC02SW

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

East of site - coordinates of previously sampled location

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Mix of pulverized shell & other rock & material

Other pertinent information (weather conditions, etc.):

overcast - breezy

SAMPLE COLLECTION TIME: 1325

Field Duplicate: Yes or ☒ No

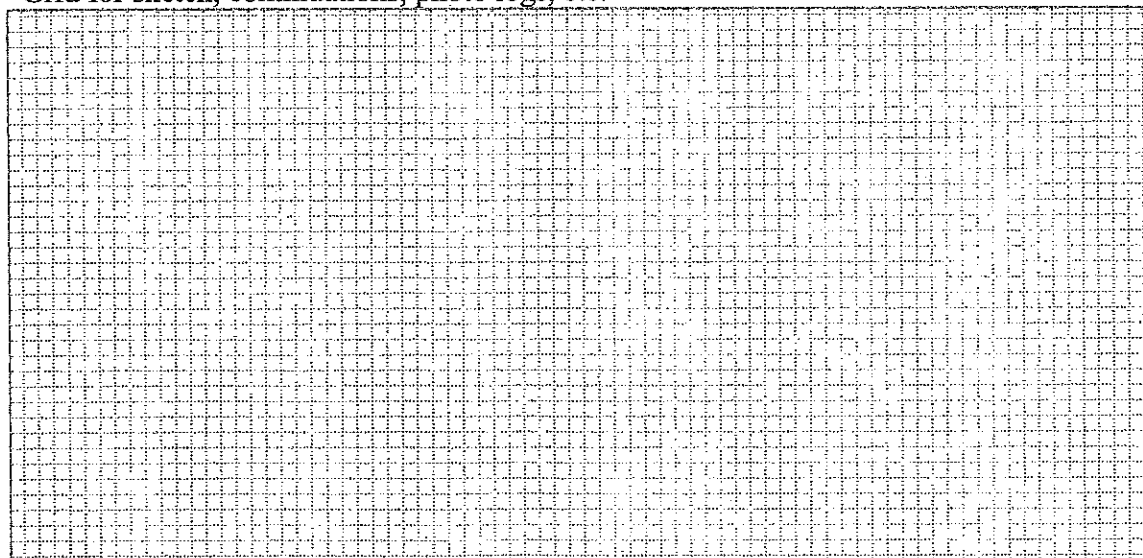
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N [☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: BC03 Sample ID: BC03SF

Sample Team: _____ or Init. BLT
_____ or Init. SLD
_____ or Init. _____

GPS Coordinates: Latitude: 38.231416 N Longitude 85.78278 W

Garmin [] Serial Number _____ Accuracy 29 feet m

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

South side Bldg 20

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Gravel + sand mix

Other pertinent information (weather conditions, etc.):

Overcast

SAMPLE COLLECTION TIME: 1400

Field Duplicate: Yes or (No)

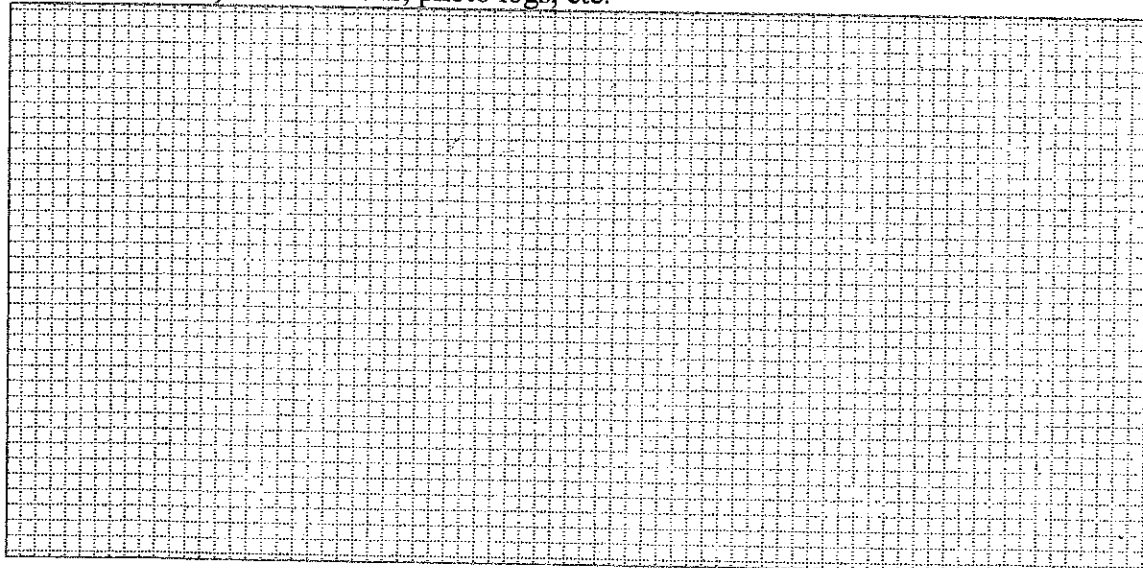
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N) [☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



BLT
2/15/12

Date: 4/15/12 Station ID: BC04 Sample ID: BC04517

Sample Team: _____ or Init. _____
_____ or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.271668 N Longitude 85.782897 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

North side B/Ly 20

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Light gray gravel sand mix

Other pertinent information (weather conditions, etc.):

Overcast & rainy

SAMPLE COLLECTION TIME: 1420

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

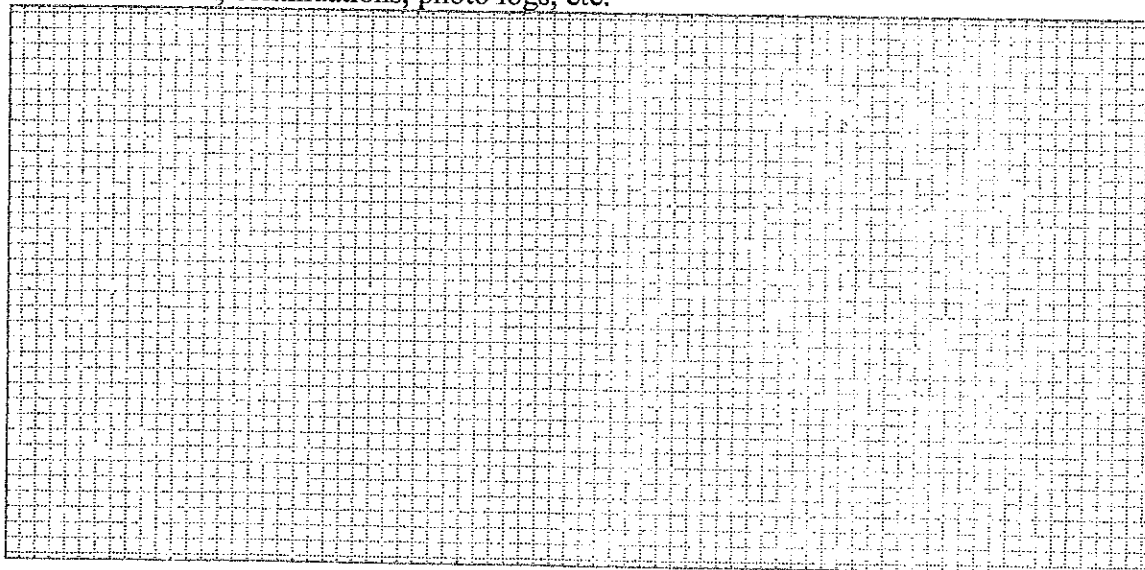
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



OK
2/15/12

Date: 2/15/12 Station ID: BC05 Sample ID: BC05WA

Sample Team: _____ or Init. _____

_____ or Init. _____

_____ or Init. _____

GPS Coordinates: Latitude: 28.231968 N Longitude 85.782972

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

Sublevel left side (west) of Bldg. 18

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Spooned from pile and placed in glass pan & homogenized

Description of Sample Material White, granular material

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1450

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

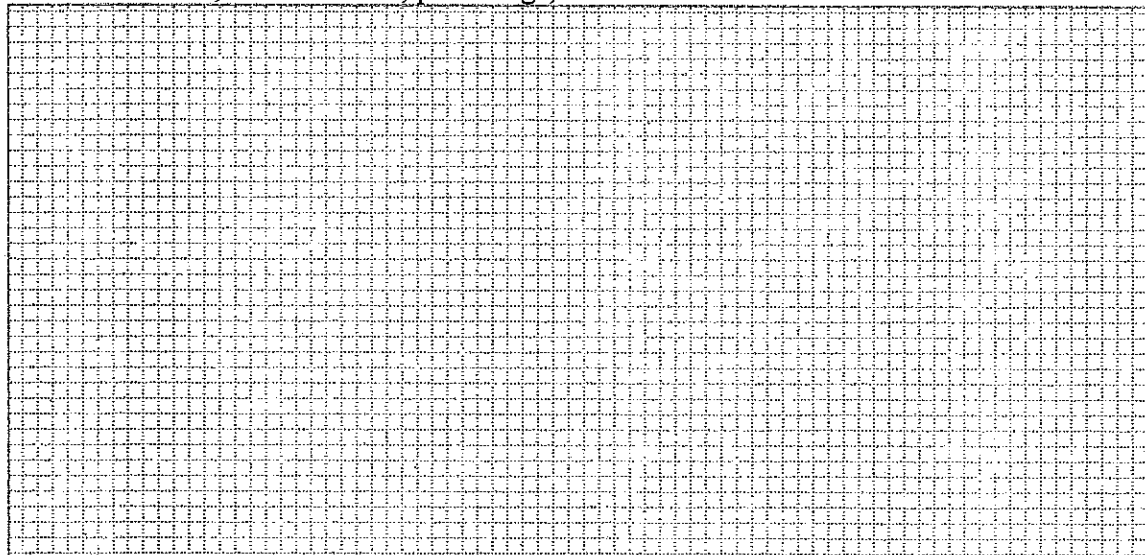
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: BC06 Sample ID: BC06WA

Sample Team: _____ or Init. _____
_____ or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

Stairwell west side of Bldg 18

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Spooled from stair well and placed in glass jar - homogenized

Description of Sample Material Fine silty material

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1455

Field Duplicate: Yes or No

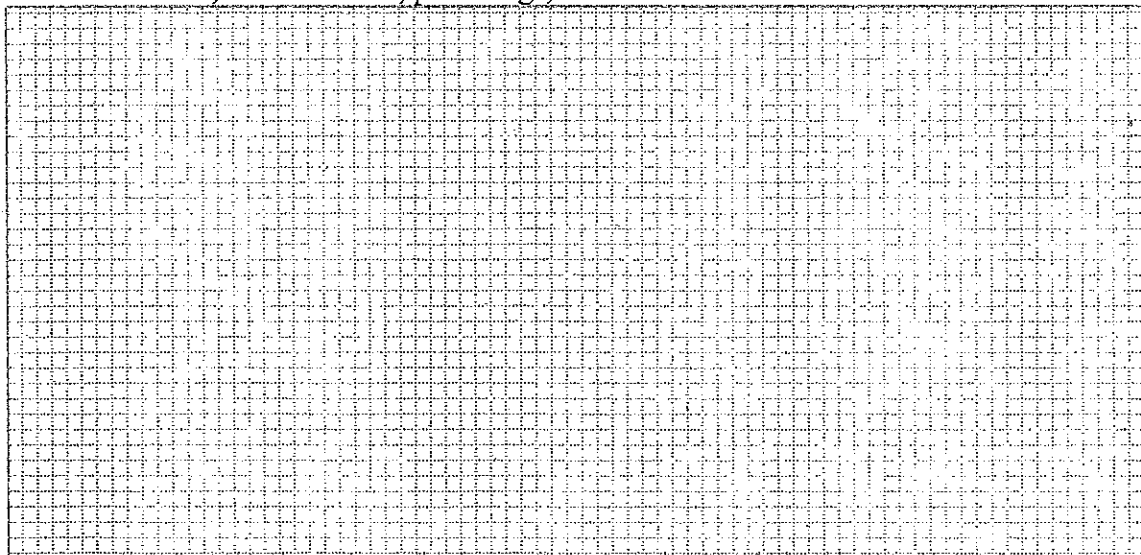
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N) [] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



2/15/12

Date: 2/15/12 Station ID: BC07 Sample ID: BC07WA

Sample Team: _____ or Init. DA
_____ or Init. SD
_____ or Init. _____

GPS Coordinates: Latitude: 38.232064 N Longitude -85.283159 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

Center of Bldg 17

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Spoon from dirt on floor + homogenized in glass jar

Description of Sample Material Dusty floor material

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1500

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

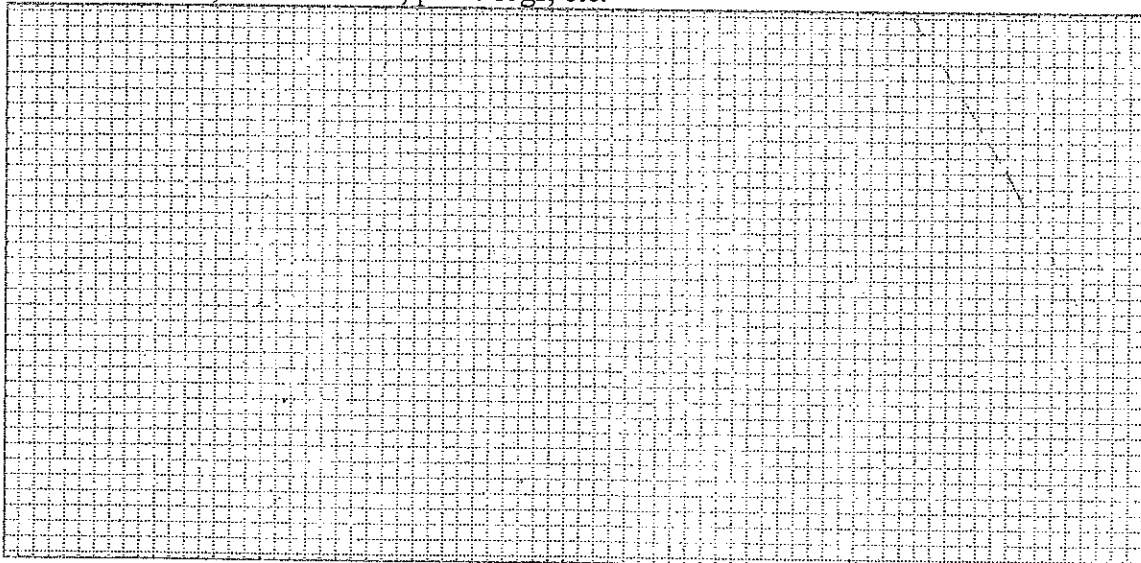
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



DA
2/15/12

Date: _____ Station ID: _____ Sample ID: _____

Sample Team: _____ or Init. _____

_____ or Init. _____

_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material _____

Other pertinent information (weather conditions, etc.): _____

SAMPLE COLLECTION TIME: _____

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

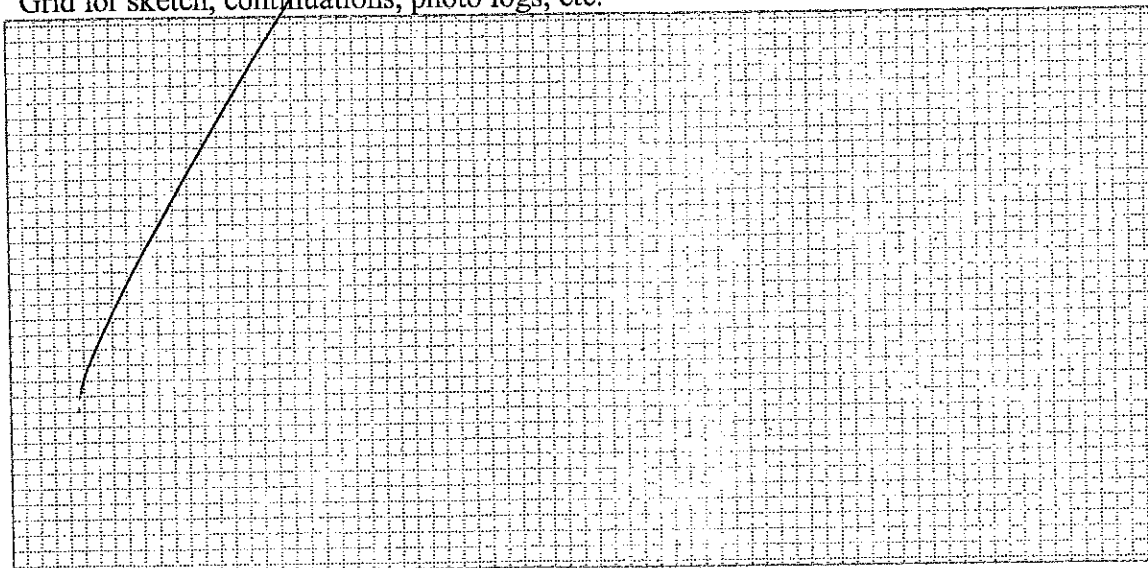
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



United States Environmental Protection Agency
Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720



BLACKLEAF CHEMICAL SUPERFUND SITE
LOUISVILLE, KENTUCKY
SESD PROJECET NUMBER 12-0195
PROJECT LEADER: DON HUNTER

FIELD SAMPLING LOGBOOK

Book 2 of 3
Inclusive Dates: 2/14/12 - 2/15/12

List of personnel in logbook:

| Name | Initials | Organization/Duties |
|-----------------------|-----------|---------------------------|
| <u>Tim Simpson</u> | <u>TS</u> | <u>SESD</u> , Team Leader |
| <u>ERIC B. MORRIS</u> | <u>EM</u> | <u>OTIE</u> |
| | | |
| | | |
| | | |
| | | |

NOTE: Tim Simpson is sample Team leader

SAMPLE COLLECTION AND IDENTIFICATION INSTRUCTIONS

Unless otherwise noted, the following procedures will be followed for collection and identification of soil samples collected for this investigation.

Sample Collection – Residential Properties

Following procedures in SESDPROC-300-R2, each sample will be collected as a four to five-point composite of the 0-inches to 4-inches below ground surface (bgs) interval. The number and locations for these aliquots will be determined in the field by the sample team leader and will be based on considerations such as the size of the yard and the presence of structures, trees, shrubs and landscaping treatments. No aliquot will be collected within 10 feet of any identifiable burn pile, stained soil or storage areas. A sketch of the yard and sample locations will be drawn in the field log book. The approximate center of the sample aliquot pattern will be located and logged using a mapping-grade Trimble global positioning system (GPS) receiver (SESDPROC-110-R2, Global Positioning System). The coordinates will also be noted in this field logbook.

Samples will be collected using stainless steel hand augers and will be placed in a glass pan and mixed, using the quartering method, with a stainless steel spoon. When the sample has been thoroughly homogenized, it will be portioned into two 8-ounce glass sample jars, one for metals and one for pesticides/semi-volatile organics.

Sample Collection - On-Site Samples

Surface and subsurface samples will be collected as grab samples from locations designated by OSC Smith. The surface soil sample interval will be approximately 0" – 6" bgs. The subsurface sample will be collected over the 12" – 18" bgs interval or other interval, as directed by OSC Smith. All samples will be placed in glass pans and homogenized using the quartering method prior to containerization. A sketch will be prepared in this logbook, identifying the location of the sample and any nearby or adjacent site features. The sample location will be logged using a mapping-grade Trimble global positioning system (GPS) receiver (SESDPROC-110-R2, Global Positioning System). The coordinates will also be noted in this field logbook.

Sample Nomenclature

Residential Samples:

The station ID for each sample will consist of a two letter street identifier, where:

WA = Wilson Avenue
SL = St. Louis Avenue
DH = Dixie Highway
SF = South 15th Street

and a four digit address code corresponding to the residence's street address. Samples collected from front yards will have the same station ID as the backyard samples with an "X" appended.

The sample ID will be the station ID with "SF" appended, to indicate a surface soil sample. Co-located duplicate samples will be collected from five percent of the sampled locations and will be indicated by appending a "D" to the sample ID. For example, the primary sample collected in the backyard at 1700 St. Louis Avenue would be identified as SL1700SF. The front yard sample would be identified as SL1700XSf. If there was a co-located duplicate, also collected from the front yard, it would be identified as SL1700XSfD.

On-Site Samples:

The station ID for each on-site sample will consist of two letters, BC (Blackleaf Chemical), followed by a sequential series of two digits, beginning with "01", and ending in either "SF", for surface soil, or "SB" for subsurface soil. If a duplicate sample is collected, a "D" will be appended to the end of the given sample ID. Locations for on-site samples will be determined in the field and prescribed by the On-Scene Coordinator for the site.

Date: 2/14/12 Station ID: WA1734SF Sample ID: WA1734SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.233451564 N Longitude 85.78453634 W

Garmin ☒ Serial Number 4427456117 Accuracy 4 feet UNIT 1

2/14/12 Trimble ☒ SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1734 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dark Brown silty soil

Other pertinent information (weather conditions, etc.):

Cold, snow on ground

SAMPLE COLLECTION TIME: 9:52

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

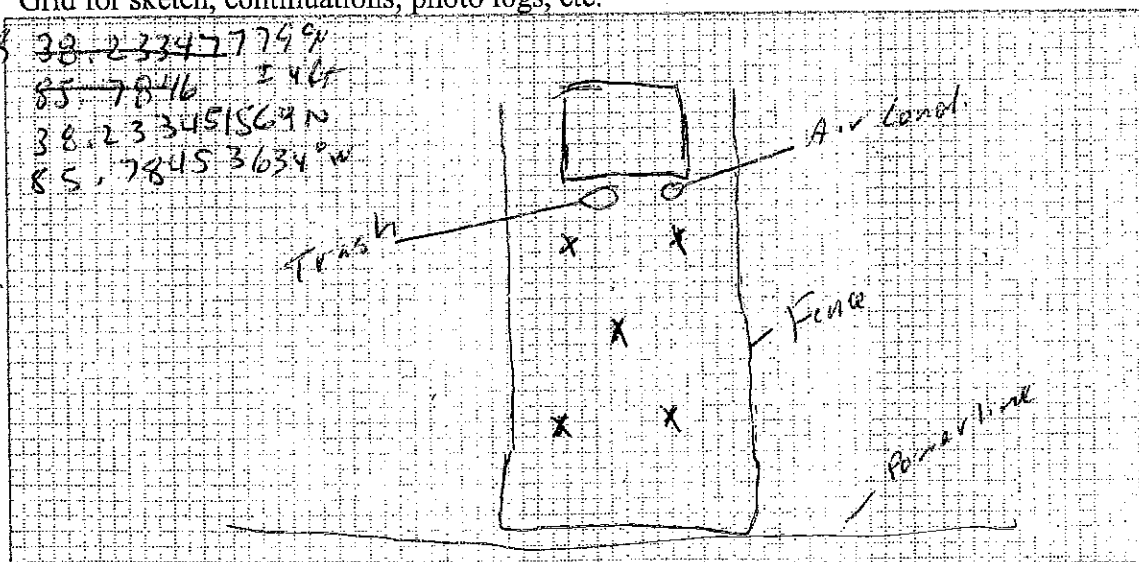
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



note - GPS File is 2.00 and
created for

Blackleaf Chemical Removal Assessment
Louisville, Kentucky

Removal Assessment Report
Black Leaf Chemical, Louisville, KY

Date: 2/14/12 Station ID: WA17325F Sample ID: WA17325F

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23346058 N Longitude 85.75439249 W

28
2/14/12 ~~Garmin~~ Serial Number see p 4 Accuracy 3 feet

Trimble ☒ SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1734 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dark brown silty soil

Other pertinent information (weather conditions, etc.):

snow on ground, light mist/rain

SAMPLE COLLECTION TIME: 10:24

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

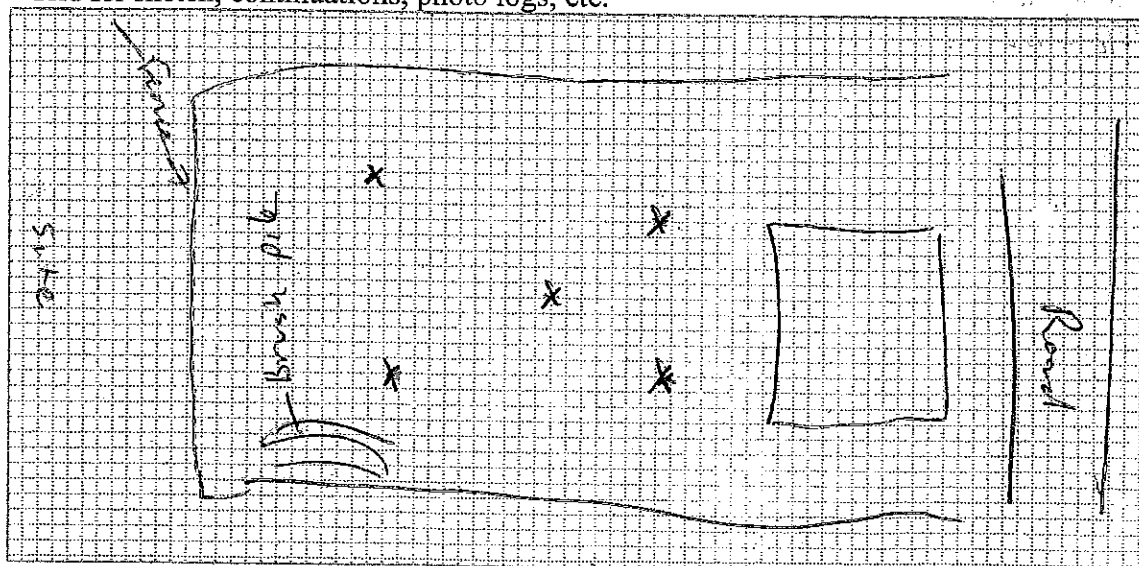
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1728SP Sample ID: WA1728SP

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23335480 N Longitude 85.78402508 W

^{2/14/12} ~~Garmin~~ Serial Number _____ Accuracy 31 in feet

Trimble ☒ SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1728 Wilson Avenue Back yard, 5 pt composite

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material dark brown silty soil. Root mass removed

Other pertinent information (weather conditions, etc.):

Snow on ground

SAMPLE COLLECTION TIME: 1143

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

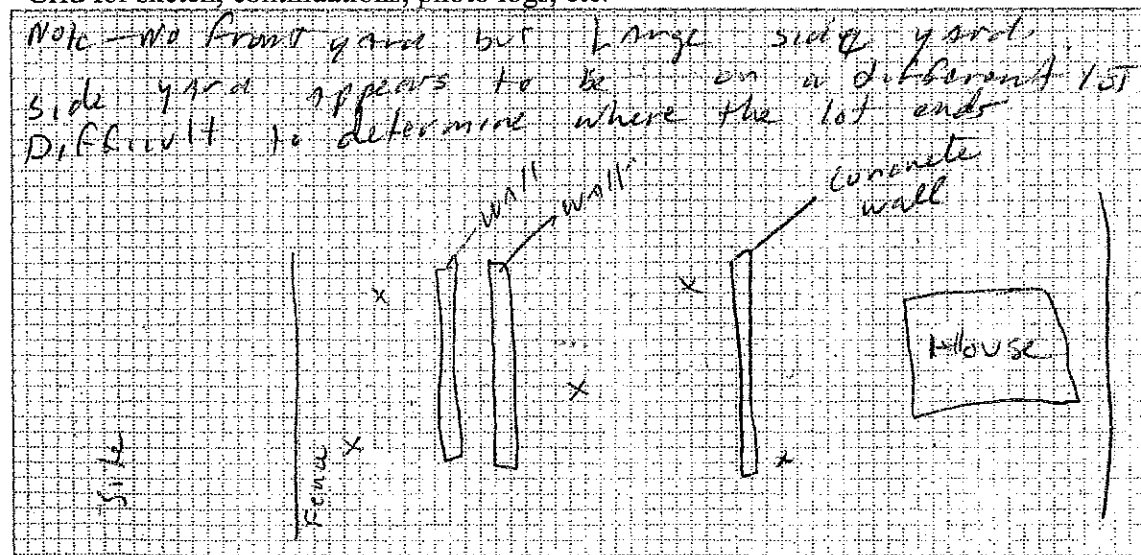
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/11/12 Station ID: WA1722SF Sample ID: WA17228F

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23337576 N Longitude 85.78371240 W

Garmin [☒] Serial Number _____ Accuracy 21 in feet ^{2/11/12}

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1722 Wilson Avenue back yard. SPT composite

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material mostly dark brown, some orange soil

Other pertinent information (weather conditions, etc.):

NO RAIN, SNOW on ground

SAMPLE COLLECTION TIME: 12:11

Field Duplicate: Yes or ☒ No

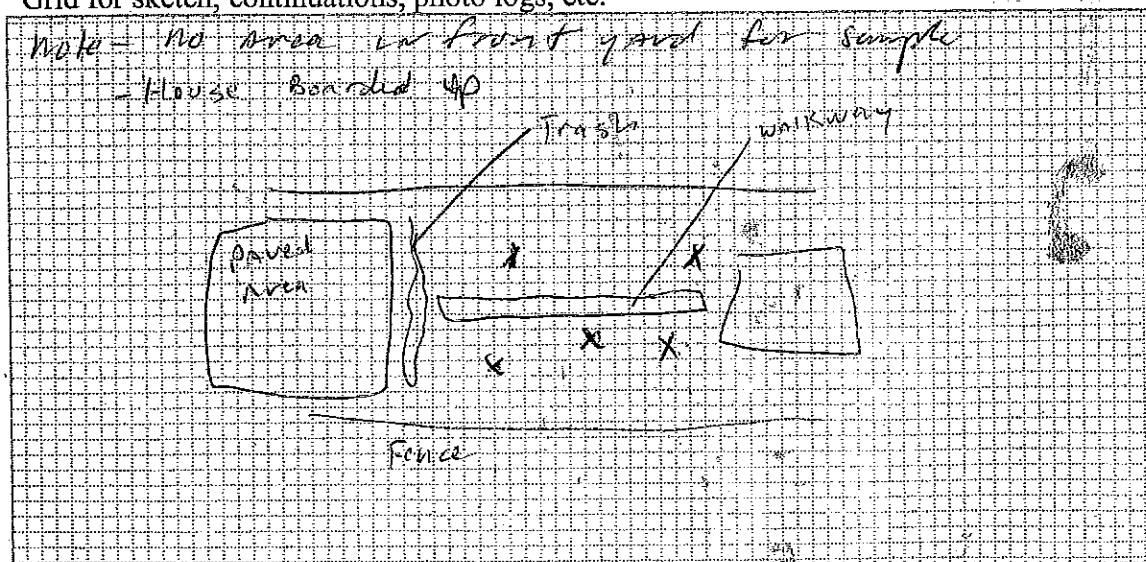
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N [] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: _____ Station ID: _____ Sample ID: _____

Sample Team: _____ or Init. _____
_____ or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material _____

Other pertinent information (weather conditions, etc.): _____

SAMPLE COLLECTION TIME: _____

Field Duplicate: Yes or No

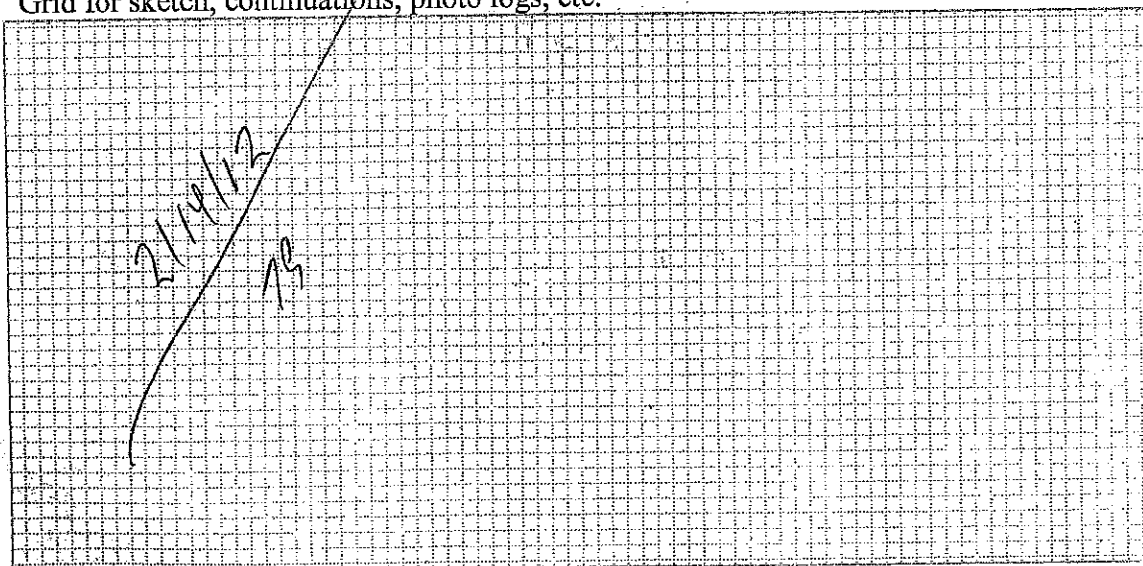
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N [] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: _____ Station ID: _____ Sample ID: _____

Sample Team: _____ or Init. _____

_____ or Init. _____

_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material _____

Other pertinent information (weather conditions, etc.): _____

SAMPLE COLLECTION TIME: _____

Field Duplicate: Yes or No

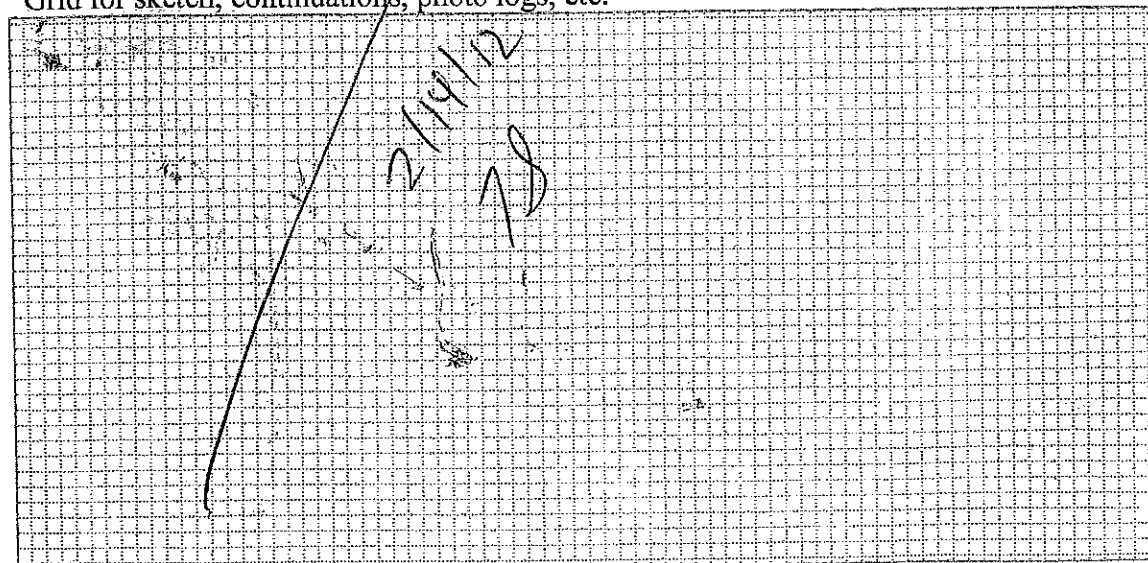
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N [] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1716SF Sample ID: WA1716SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23330505 N Longitude 85.78342115 W

Garmin [] Serial Number _____ Accuracy 28.1 m feet

Trimble [✓] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1716 Wilson Avenue / Back yard 5 ft composite

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material mix of dark brown & orange brown soil

Other pertinent information (weather conditions, etc.):

overcast, cold snow has melted

SAMPLE COLLECTION TIME: 1334

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: 2/14/12 1334

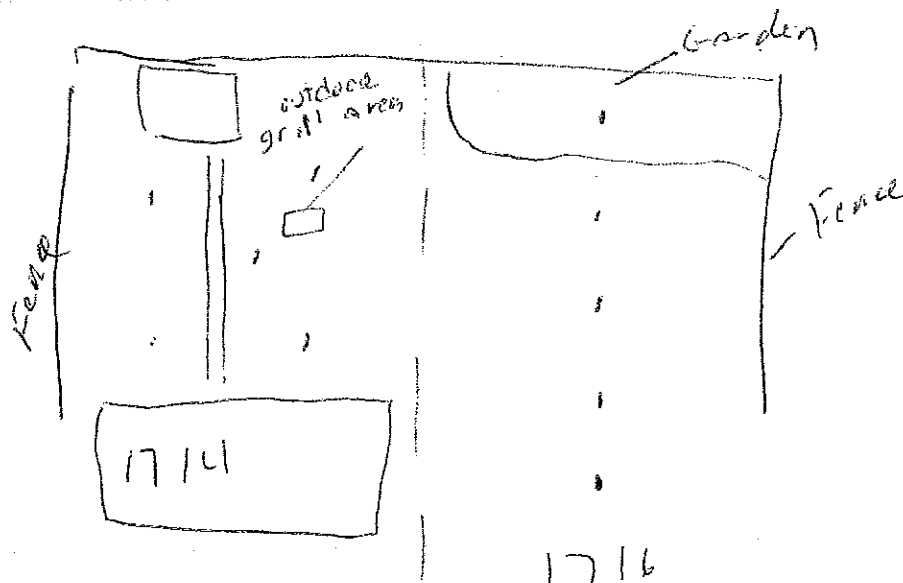
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[✓] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



WA1714SF 2/14/12
12

Date: 2/14/12 Station ID: WA1714SF Sample ID: WA1714SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23330827 N Longitude 85.78333298 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [✓] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material _____

Other pertinent information (weather conditions, etc.):

Overcast, cold

SAMPLE COLLECTION TIME: 13:50

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

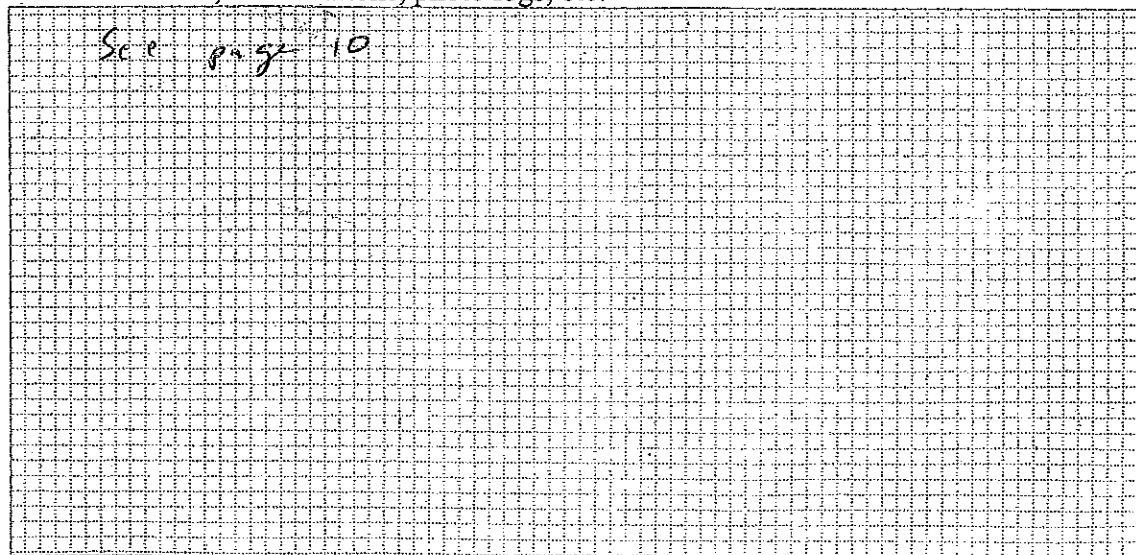
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: ^{WA}1716SF Sample ID: WA 1716 X SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.2353097 N Longitude 85.7834161 W

Garmin [] Serial Number _____ Accuracy 34 inch feet 102/1/12

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1716 Wilson Ave - Front yard, Side yard to 1714

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Mix of dark brown + light brown, clay/silt

Other pertinent information (weather conditions, etc.):

cold + overcast, no rain, snow has melted

SAMPLE COLLECTION TIME: 14:08

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

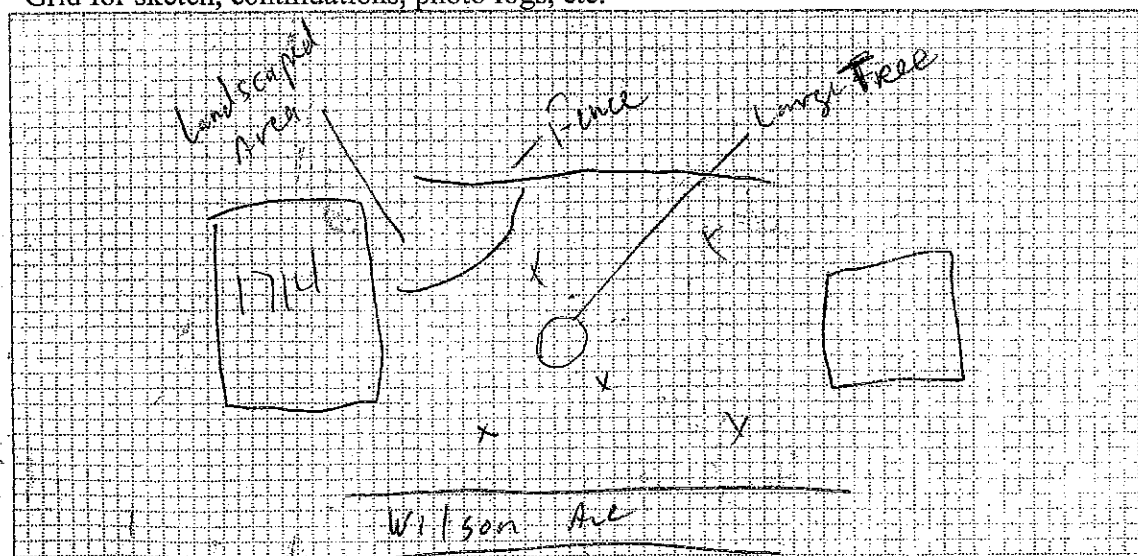
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? ☒ or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1702SF Sample ID: WA1702SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.233319548 N Longitude 85.78275837 W

Garmin [] Serial Number _____ Accuracy 4.8 feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1702 Wilson Ave, BACK yard, VACANT LOT

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material mix of brown/orange/brown soil. Some trash. Some

Other pertinent information (weather conditions, etc.): coal material in soil

cold, overcast

SAMPLE COLLECTION TIME: 1450

Field Duplicate: ☒ Yes or No WA1702SF

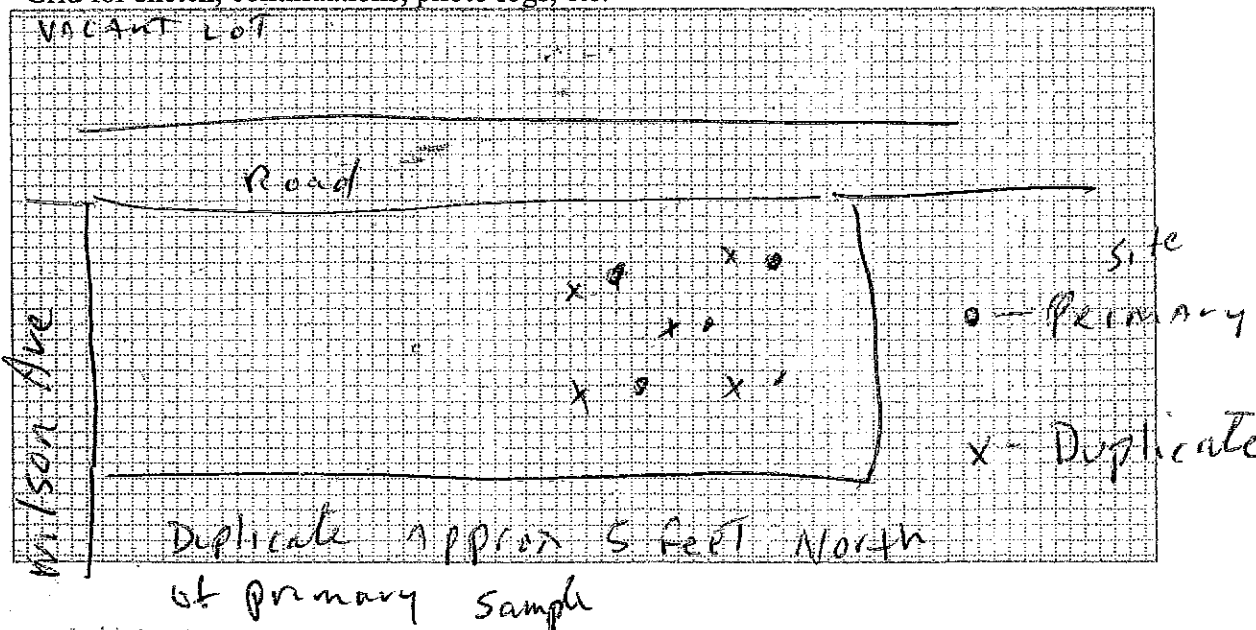
Duplicate sample station ID: WA1702SFD Sample ID Date and Time: WA1702SFD

Laboratory Analyses and containers: 2/14/12 15:05
02/14/12

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N [☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1702SFX Sample ID: WA 1702SFX

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23344959 N Longitude 85.78271617 W

Garmin [] Serial Number 213 21412 Accuracy 2.8 m feet 21412

Trimble [] SESD Instrument #: _____ Logged? ☒ Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1702 Wilson Ave, Front yard, Vacant lot

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Mix of orange/brown + Brown soil

Other pertinent information (weather conditions, etc.): root mass (grass) removed

Cold, overcast

SAMPLE COLLECTION TIME: 15:20 15:25

Field Duplicate: Yes or ☒ No 2/14/12

Duplicate sample station ID: _____ Sample ID Date and Time: _____

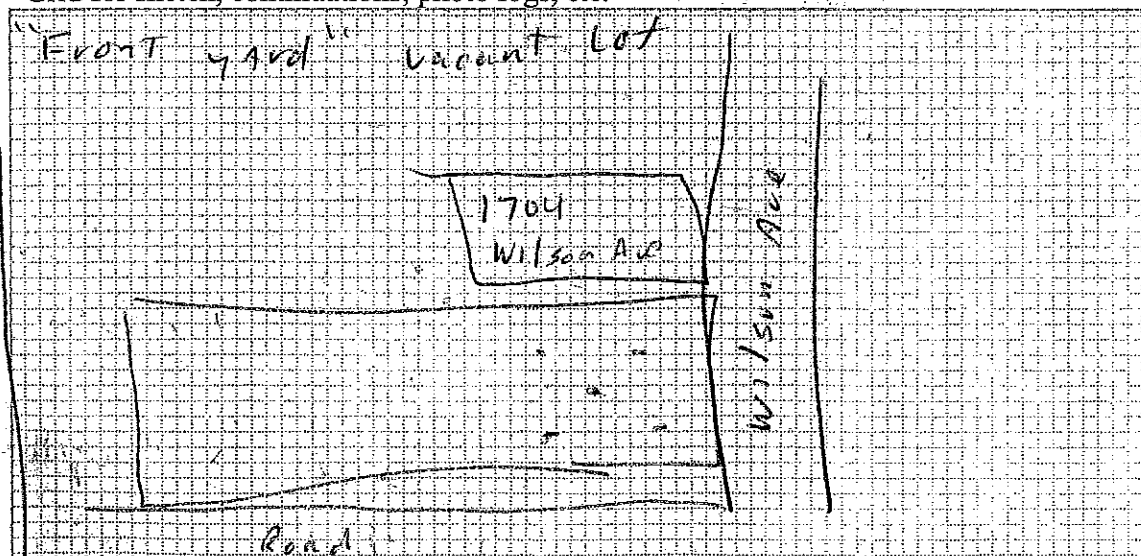
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc:



Date: 2/14/12 Station ID: WA1704SE Sample ID: WA1704SE

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23327921 N Longitude 85.78286069 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: Unit 1 Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1704 Wilson Ave, Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material mix of brown/orange + brown + grey clay silt soil

Other pertinent information (weather conditions, etc.): Possible slag material found in the center aliquot.
Cold overcast

SAMPLE COLLECTION TIME: 1545

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: _____

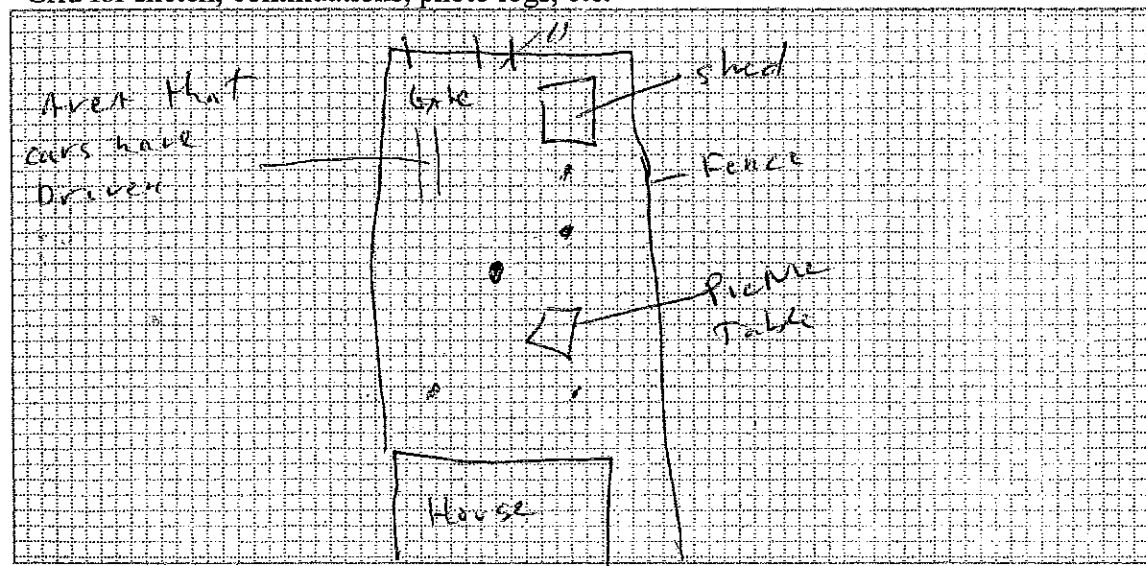
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA 1712SF Sample ID: WA 1712SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23332515 N Longitude 85.78322609 W

Garmin [] Serial Number _____ Accuracy 28m feet

Trimble [] SESD Instrument #: _____ Logged? Y or ☒ N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1712 Wilson Ave, Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material DARK brown soil. Some coal? material near

Other pertinent information (weather conditions, etc.): an Aliquot

cold, overcast

SAMPLE COLLECTION TIME: 16:18

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

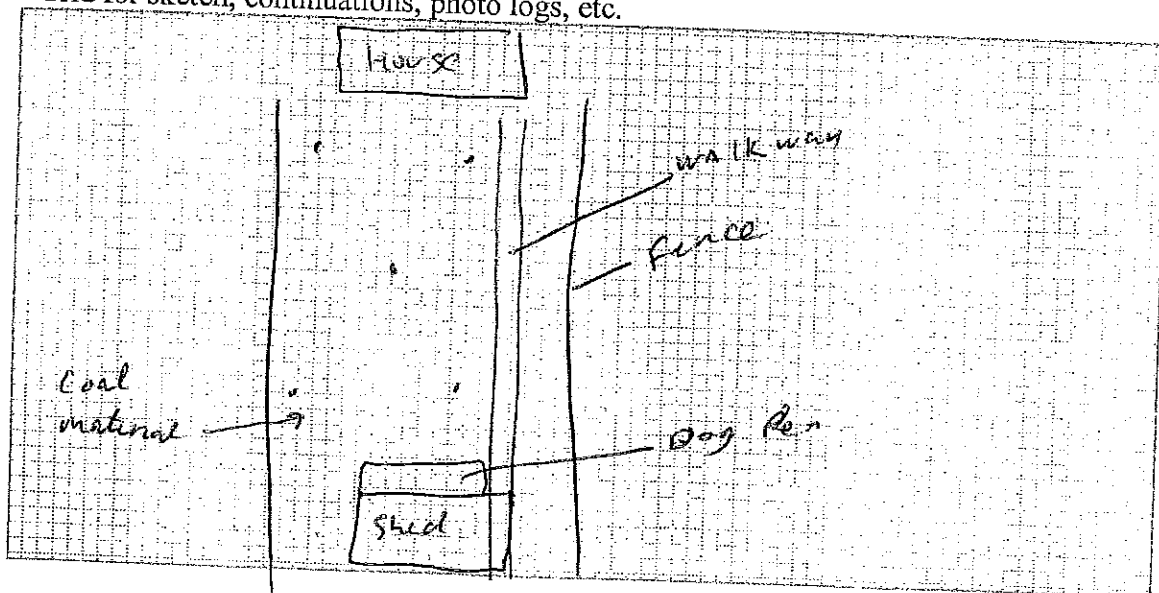
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/11/12 Station ID: WA1626SF Sample ID: WA1626SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23319050 N Longitude 85.78220435 W

Garmin [] Serial Number _____ Accuracy _____ feet - Jumped between

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N 35 inch + 4 ft

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1626 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil, Root masses removed

Other pertinent information (weather conditions, etc.):

overcast

SAMPLE COLLECTION TIME: 1711

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

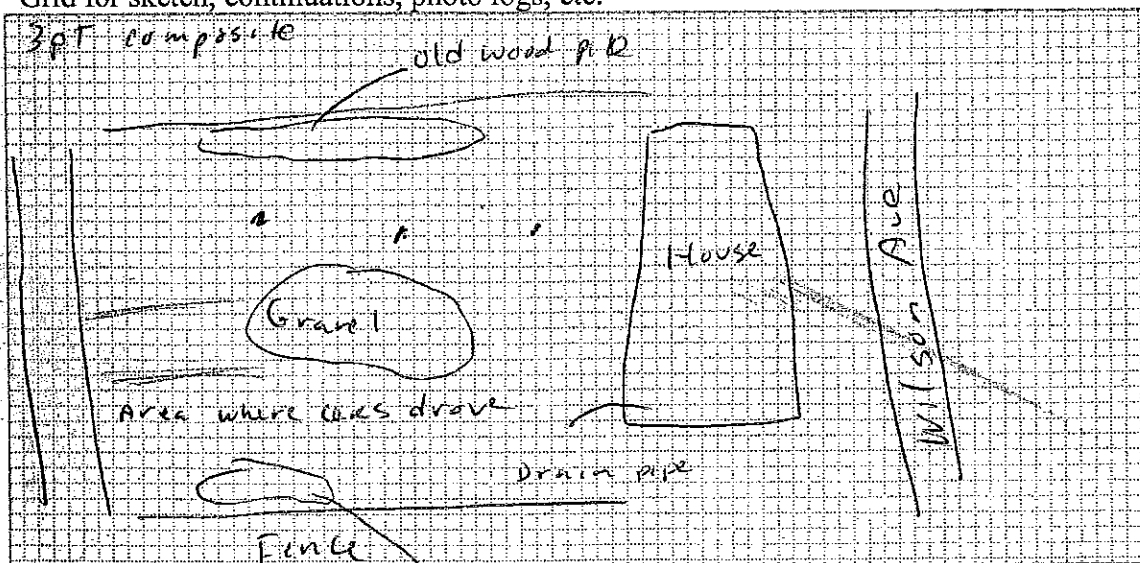
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1701SF Sample ID: SL1701SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23307773 N Longitude 85.78552893 W

Garmin [] Serial Number _____ Accuracy 3.5 feet

Trimble ☒ SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1701 ST LOUIS, Backyard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil

Other pertinent information (weather conditions, etc.):

cloud overcast

SAMPLE COLLECTION TIME: 8:55 2/15/12

Field Duplicate: Yes or No

19

Duplicate sample station ID: SL1701SF Sample ID Date and Time: SL1701SF 855

Laboratory Analyses and containers:

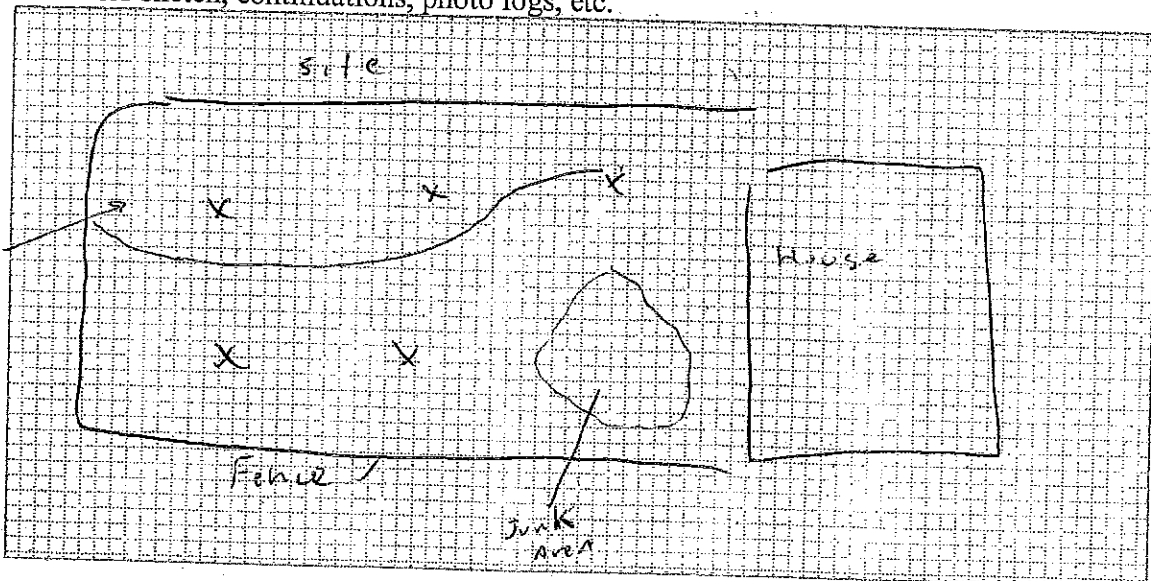
855
2/15/12 "Split Sample"

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | 1 | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL17015FX Sample ID: SL17015PY

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23280169 N Longitude 85.78563922 W

Garmin [] Serial Number _____ Accuracy 20 feet

Trimble [✓] SESD Instrument #: Unit 1 Logged? [✓] or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1701 St Louis, Front yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil

Other pertinent information (weather conditions, etc.):

Cold

SAMPLE COLLECTION TIME: 9:18

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

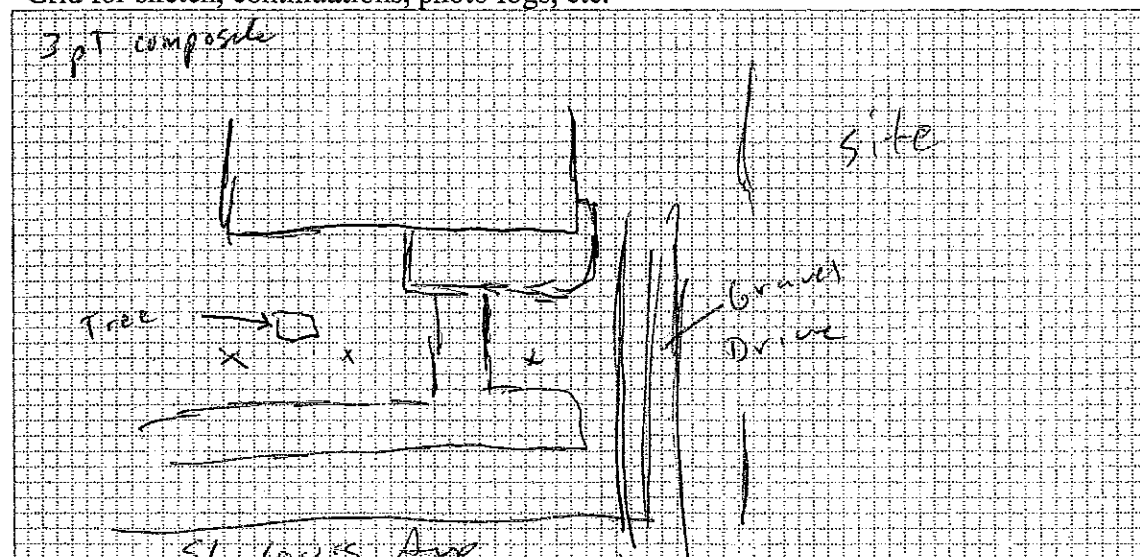
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[✓] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1703SF Sample ID: SL1703SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23306454 N Longitude 85.78569577 W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [x] SESD Instrument #: _____ Logged ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1703 St Louis Ave, back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dark brown soil, some root mass

Other pertinent information (weather conditions, etc.): some gravel

SAMPLE COLLECTION TIME: 9:38

Field Duplicate: Yes or ☒ No

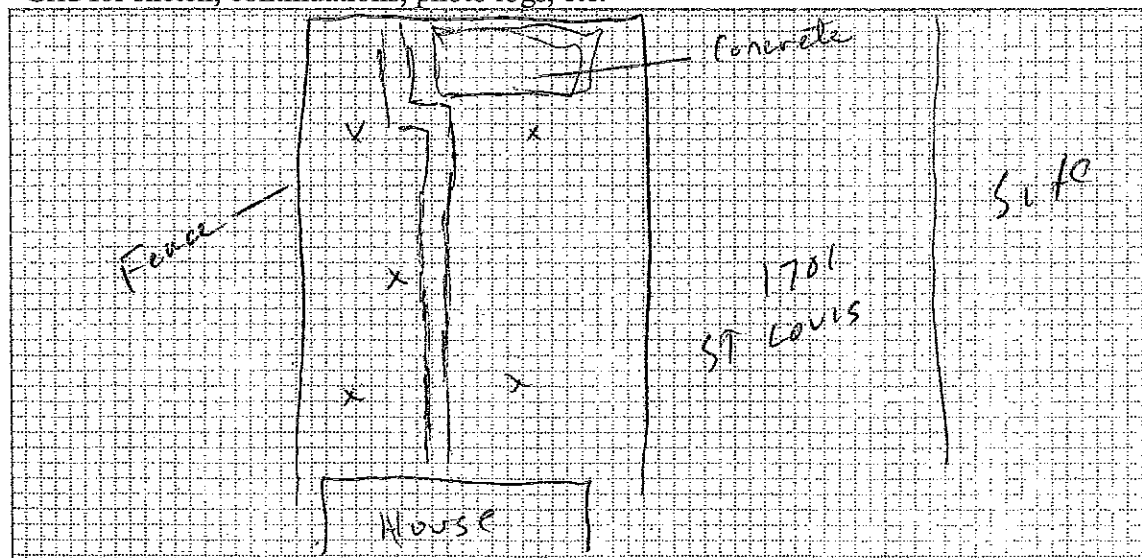
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N ☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1700SF Sample ID: SL1700SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23229762 N Longitude 85.78568028 W

Garmin [] Serial Number _____ Accuracy 3.5 feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

SL1700SF 1700 ST Louis Ave Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dark Brown silty soil

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 10:10

Field Duplicate: Yes or ☒ No

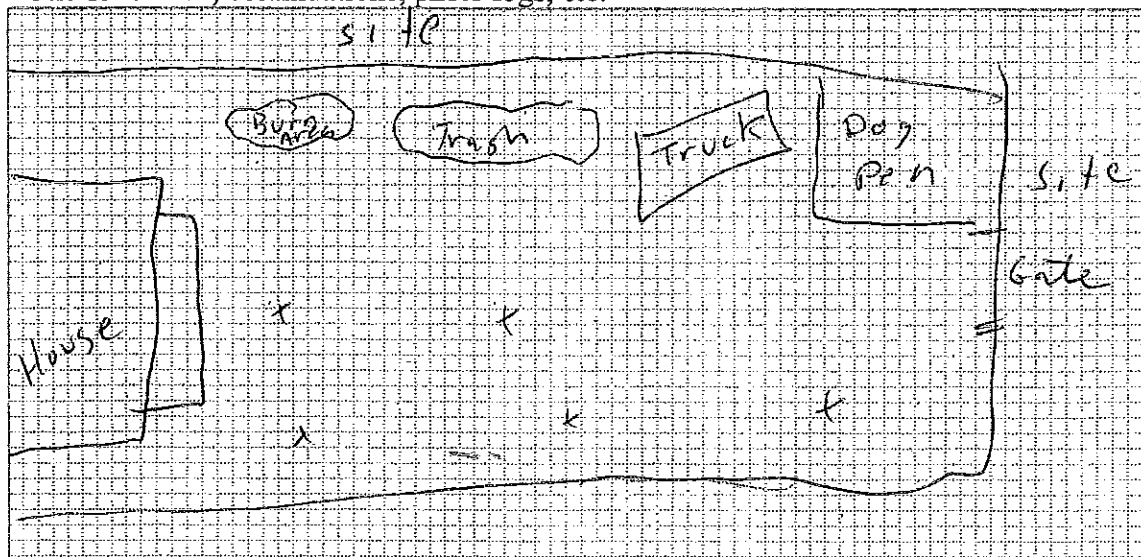
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N [☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 3/15/12 Station ID: SL1702SR Sample ID: SL1702SR

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23235579 N Longitude 85.78585379 W

Garmin [] Serial Number _____ Accuracy 27 m feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N 2/15/12

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1702 ST LOUIS Ave, Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

3 pt composite

Description of Sample Material Brown silty soil

Other pertinent information (weather conditions, etc.):

Clear

SAMPLE COLLECTION TIME: 10:33

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

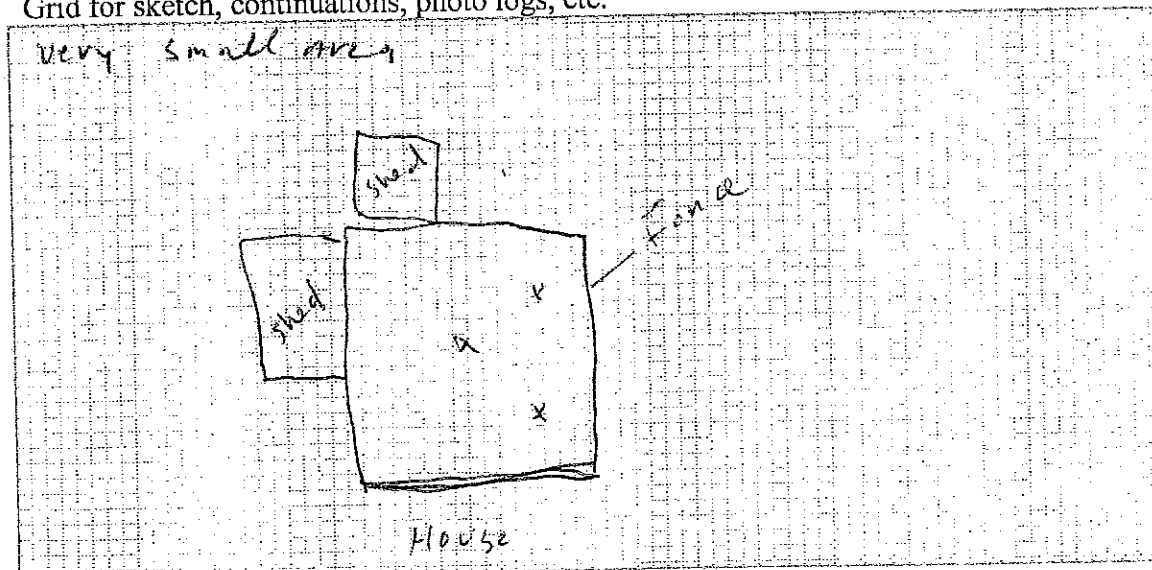
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1708SF Sample ID: SL1708SP

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23231825 N Longitude 85.78607527 W

Garmin [] Serial Number _____ Accuracy 30m feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1708 ST LOUIS BACK YARD - VACANT LOT

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil, Note - Bricks and other

Other pertinent information (weather conditions, etc.): trash on site

clear, cold

SAMPLE COLLECTION TIME: 10:50

Field Duplicate: Yes or ☒ No

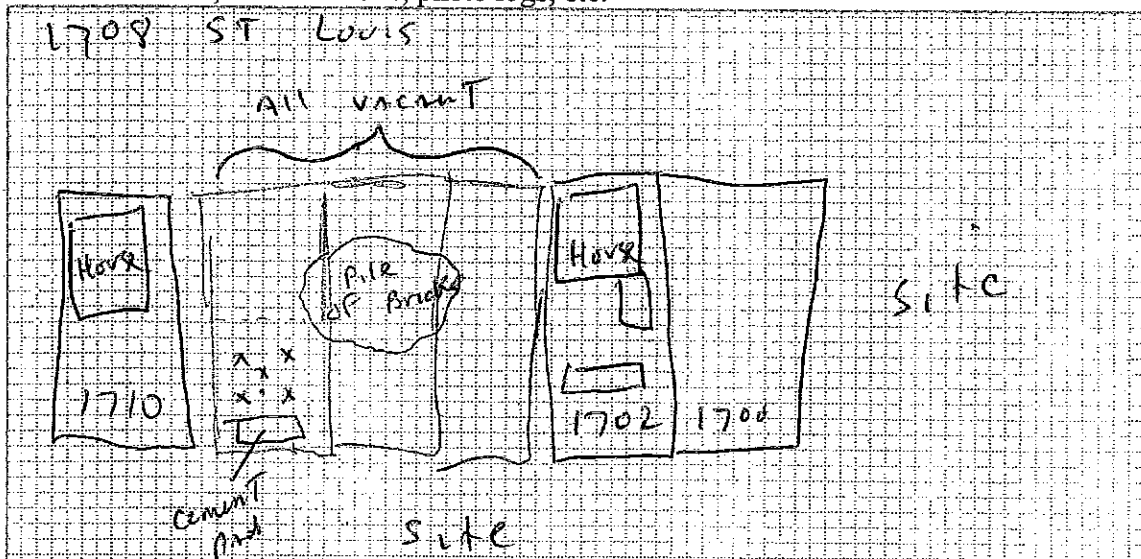
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N [☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1710SF Sample ID: SL1710SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23234717 N Longitude 85.78614116 W

Garmin [] Serial Number _____ Accuracy 33m feet

Trimble [☒] SESD Instrument #: _____ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1710 St Louis Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Dark brown silty soil mixed w/ some

Other pertinent information (weather conditions, etc.):

gravel, possible coal material in sample

SAMPLE COLLECTION TIME: 1217

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

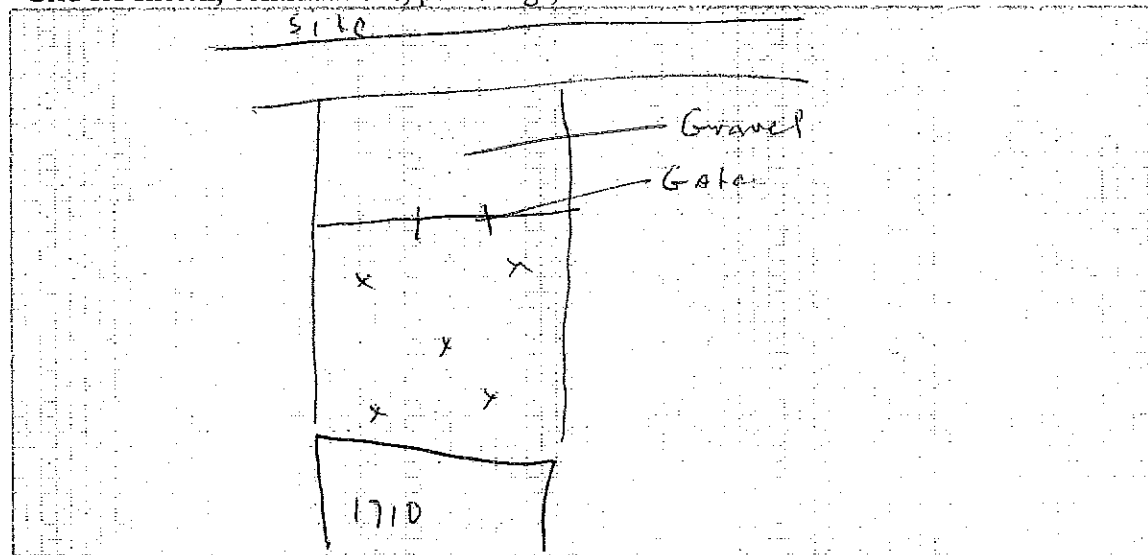
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL17125F Sample ID: SL17125F

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23235411 N Longitude 85.78622086 W

Garmin [] Serial Number _____ Accuracy 3.9^{ft} feet

Trimble [☒] SESD Instrument #: _____ Logged? Y or ☒ N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1712 St Louis Ave, Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 12:40

Field Duplicate: Yes or ☒ No

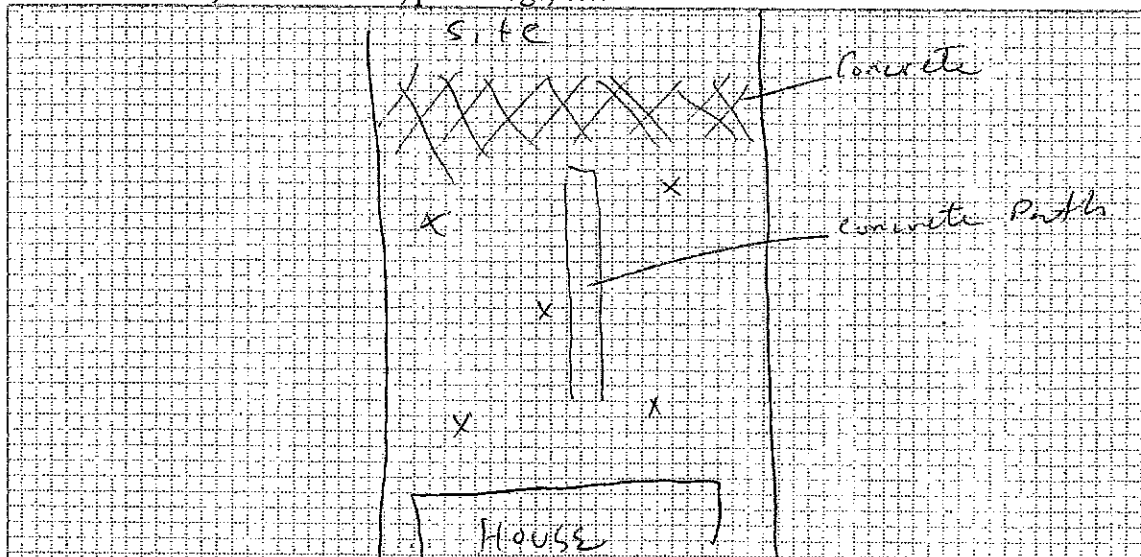
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N [☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1714SF Sample ID: SL1714SF

Sample Team: Tim Simpson or Init. _____
2/15/12 ⁷⁸ Eric Morris or Init. _____
or Init. _____

GPS Coordinates: Latitude: 38.23237807 N Longitude 85.78630564 W

Garmin [] Serial Number _____ Accuracy 30.0 feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1714 ST LOUIS Ave - BACK yard vacant lot

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 12:05 ⁷⁸ 2/15/12 13:00

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

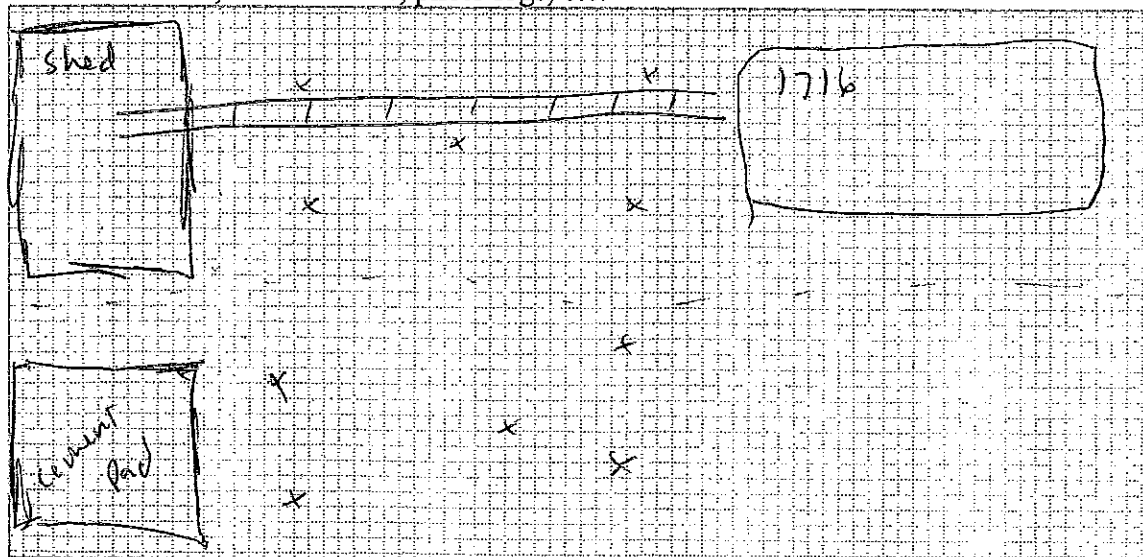
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL1716SF Sample ID: SL1716SF

Sample Team: Tim Simpson or Init. _____

Eric Morris or Init. _____

or Init. _____

GPS Coordinates: Latitude: 38.23236526 N Longitude 85.78635860 W

Garmin [] Serial Number _____ Accuracy 5.1 feet

Trimble ☒ SESD Instrument #: Unit 1 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1716 ST Louis, Back yard

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown Silty soil

Other pertinent information (weather conditions, etc.):

OVERCAST

SAMPLE COLLECTION TIME: 13:17

Field Duplicate: Yes or NO

Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | / | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

See
page 26 for map
5 point composite

Date: 2/15/12 Station ID: SL1718SF Sample ID: SL1718SF

Sample Team: Tim Simpson or Init. _____
Eric Morris or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: 38.23232519 N Longitude 85.78646449 W

Garmin [] Serial Number _____ Accuracy 3.6 feet

Trimble [☒] SESD Instrument #: _____ Logged? (Y) or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1718 ST LOUIS

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material Brown silty soil. Some coal material found

Other pertinent information (weather conditions, etc.):

overcast

in 1 aliquot. Some trash
(Nail removed from sample)

SAMPLE COLLECTION TIME: 13:33

Field Duplicate: Yes or (No)

Duplicate sample station ID: _____ Sample ID Date and Time: 12:33¹³ 2/15/12

Laboratory Analyses and containers:

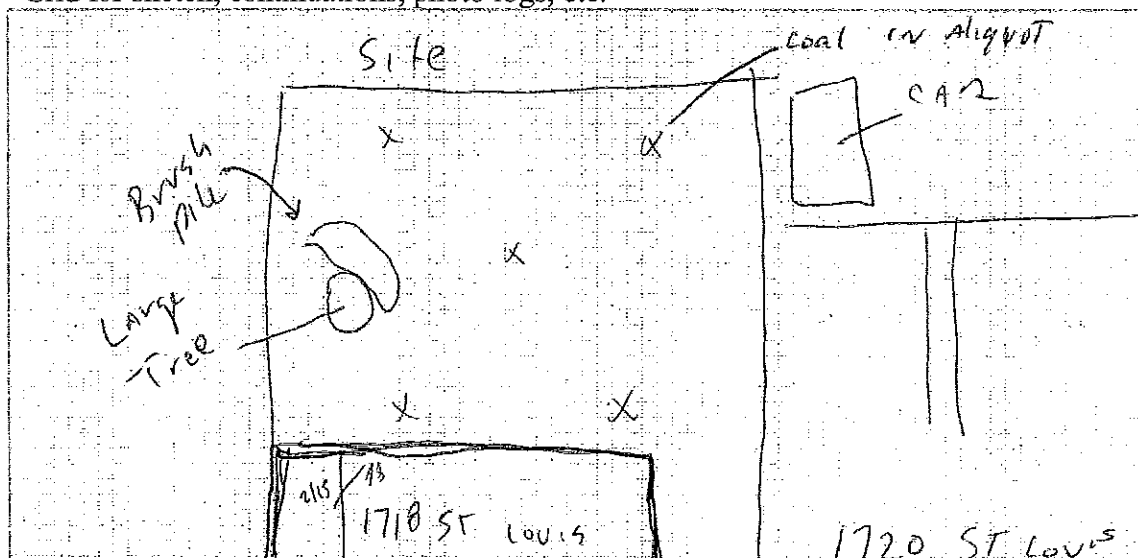
| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or (N)

[☒] All samples placed on ice/cooler checked for ice/water

Note - slight paint smell

Grid for sketch, continuations, photo logs, etc.



Date: 2/16/12 Station ID: _____ Sample ID: _____

Sample Team: _____ or Init. _____
_____ or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: _____ Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: 216112 Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material _____

Other pertinent information (weather conditions, etc.): _____

SAMPLE COLLECTION TIME: _____

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

- Samples checked (for ice) and drained

- Departed Louisville, KY via GOV

- Arr Athens, GA

- Samples taken to custody room.

END of Log Book

United States Environmental Protection Agency
Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720



BLACKLEAF CHEMICAL SUPERFUND SITE
LOUISVILLE, KENTUCKY
SESD PROJECET NUMBER 12-0195
PROJECT LEADER: DON HUNTER

FIELD SAMPLING LOGBOOK

Book 3 of 3
Inclusive Dates: 2/14 - 15/12

List of personnel in logbook:

| Name | Initials | Organization/Duties |
|----------------------|--------------------|--------------------------------------|
| <u>Jonathan Vail</u> | <u>[Signature]</u> | <u>SESD</u> , Team Leader |
| <u>Renea Anglin</u> | <u>[Signature]</u> | <u>OTIE STAFF</u> <u>[Signature]</u> |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

SAMPLE COLLECTION AND IDENTIFICATION INSTRUCTIONS

Unless otherwise noted, the following procedures will be followed for collection and identification of soil samples collected for this investigation.

Sample Collection – Residential Properties

Following procedures in SESDPROC-300-R2, each sample will be collected as a four to five-point composite of the 0-inches to 4-inches below ground surface (bgs) interval. The number and locations for these aliquots will be determined in the field by the sample team leader and will be based on considerations such as the size of the yard and the presence of structures, trees, shrubs and landscaping treatments. No aliquot will be collected within 10 feet of any identifiable burn pile, stained soil or storage areas. A sketch of the yard and sample locations will be drawn in the field log book. The approximate center of the sample aliquot pattern will be located and logged using a mapping-grade Trimble global positioning system (GPS) receiver (SESDPROC-110-R2, Global Positioning System). The coordinates will also be noted in this field logbook.

Samples will be collected using stainless steel hand augers and will be placed in a glass pan and mixed, using the quartering method, with a stainless steel spoon. When the sample has been thoroughly homogenized, it will be portioned into two 8-ounce glass sample jars, one for metals and one for pesticides/semi-volatile organics.

Sample Collection - On-Site Samples

Surface and subsurface samples will be collected as grab samples from locations designated by OSC Smith. The surface soil sample interval will be approximately 0" – 6" bgs. The subsurface sample will be collected over the 12" – 18" bgs interval or other interval, as directed by OSC Smith. All samples will be placed in glass pans and homogenized using the quartering method prior to containerization. A sketch will be prepared in this logbook, identifying the location of the sample and any nearby or adjacent site features. The sample location will be logged using a mapping-grade Trimble global positioning system (GPS) receiver (SESDPROC-110-R2, Global Positioning System). The coordinates will also be noted in this field logbook.

Sample Nomenclature

Residential Samples:

The station ID for each sample will consist of a two letter street identifier, where:

WA = Wilson Avenue
SL = St. Louis Avenue
DH = Dixie Highway
SF = South 15th Street

and a four digit address code corresponding to the residence's street address. Samples collected from front yards will have the same station ID as the backyard samples with an "X" appended.

The sample ID will be the station ID with "SF" appended, to indicate a surface soil sample. Co-located duplicate samples will be collected from five percent of the sampled locations and will be indicated by appending a "D" to the sample ID. For example, the primary sample collected in the backyard at 1700 St. Louis Avenue would be identified as SL1700SF. The front yard sample would be identified as SL1700XSF. If there was a co-located duplicate, also collected from the front yard, it would be identified as SL1700XSFD.

On-Site Samples:

The station ID for each on-site sample will consist of two letters, BC (Blackleaf Chemical), followed by a sequential series of two digits, beginning with "01", and ending in either "SF", for surface soil, or "SB" for subsurface soil. If a duplicate sample is collected, a "D" will be appended to the end of the given sample ID. Locations for on-site samples will be determined in the field and prescribed by the On-Scene Coordinator for the site.

Date: 2/14/12 Station ID: SF1340 Sample ID: SF1340SF

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: 2 GeoXH Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 201410A

Description of sample location (Street address and front or back yard):

Vacant lot 1340 S. 15th St.

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):

Paint smell cold 30's snow on ground

SAMPLE COLLECTION TIME: 955

Field Duplicate: ☒ Yes or ☐ No

Duplicate sample station ID: _____

Sample ID Date and Time: see next page 4

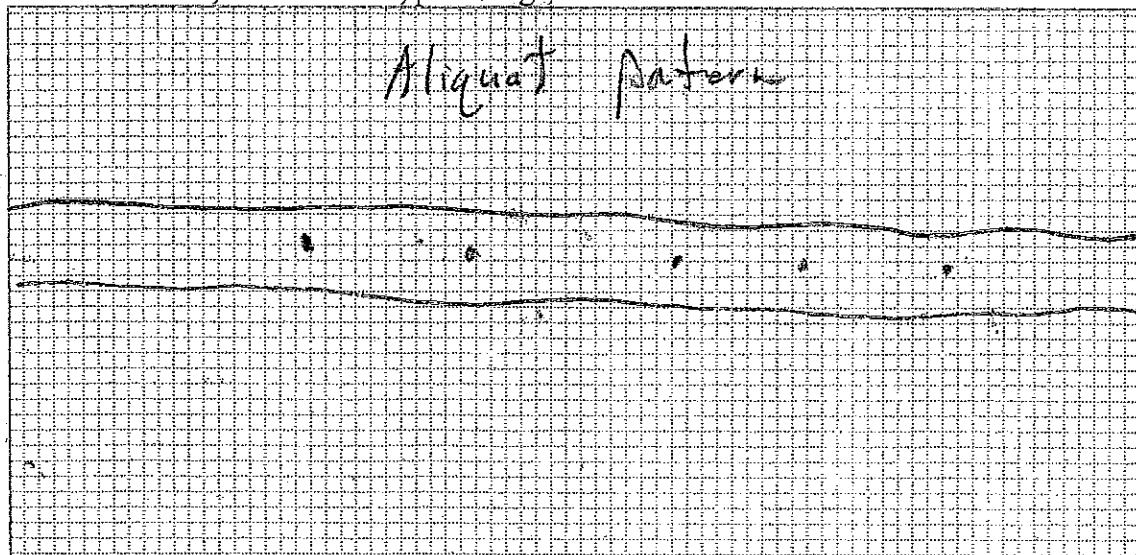
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: SF1340 Sample ID: SF1340 SFD

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? ☒ or N See page 3

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material See page 3

Other pertinent information (weather conditions, etc.): _____

SAMPLE COLLECTION TIME: 1035

Field Duplicate: Yes or No See page 3

Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | 1 | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | 1 | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

Grid for sketch, continuations, photo logs, etc.

Date: 2/14/12 Station ID: SF1338 Sample ID: SF1338SF

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021411A

Description of sample location (Street address and front or back yard):

1338 S. 15th St.

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material

Other pertinent information (weather conditions, etc.):

cold 30's snow on ground

SAMPLE COLLECTION TIME: 1135

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

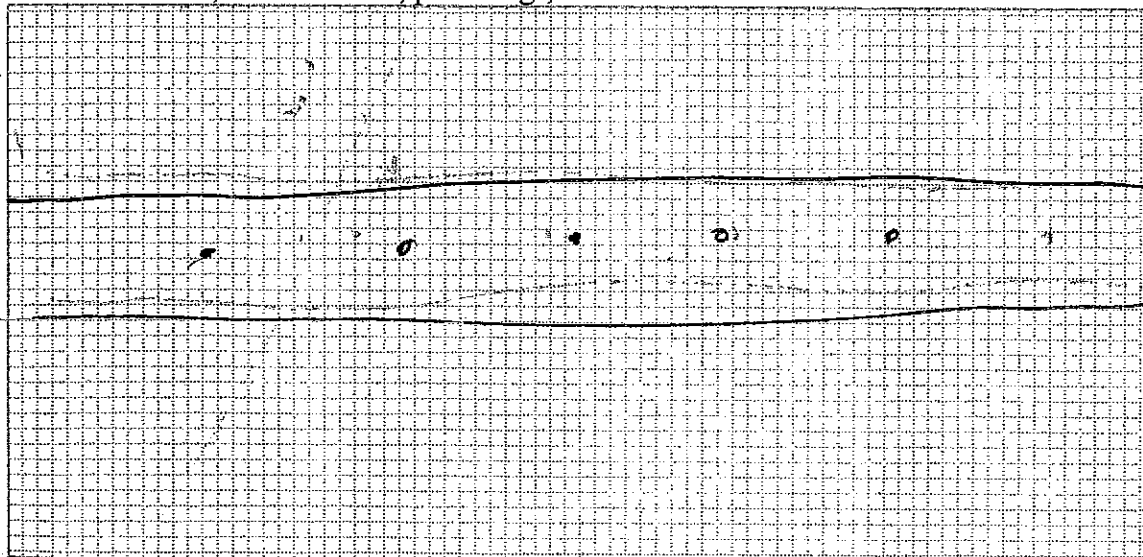
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 7/14/12 Station ID: SF1340 Sample ID: SF1340:FD

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: _____ Logged? ☒ or N see page 5

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material _____

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: _____

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N [] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

Date: 2/14/12 Station ID: WA 1518 Sample ID: WA 1518 SF

Sample Team: _____ or Init. W
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 202414A

Description of sample location (Street address and front or back yard):

1518 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay loose

Other pertinent information (weather conditions, etc.):

cold 40's

SAMPLE COLLECTION TIME: 1310

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

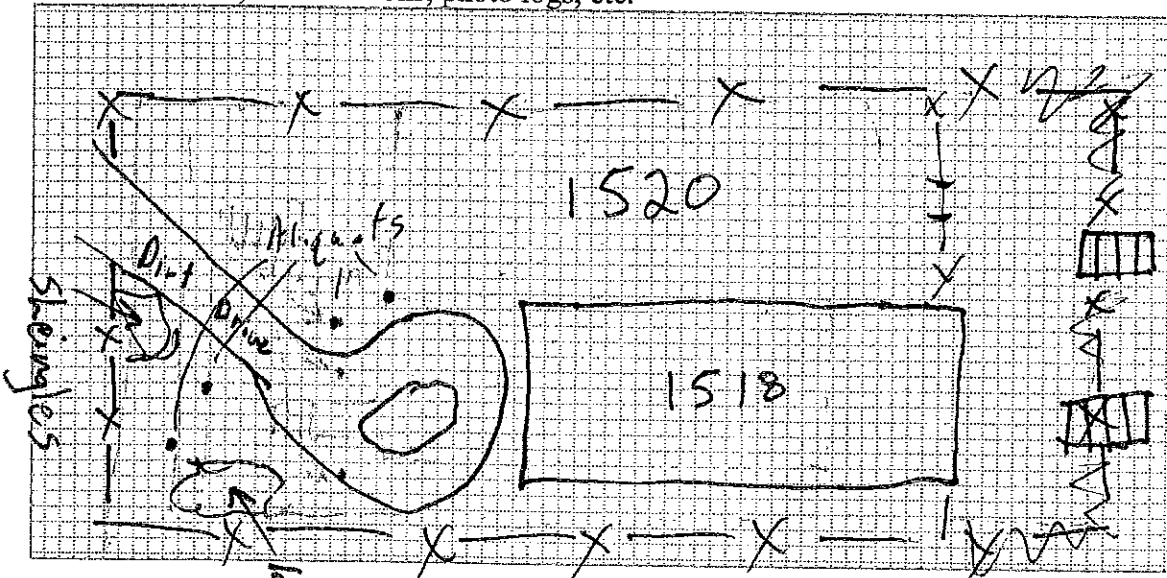
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1518 Sample ID: WA15-35FX

Sample Team: _____ or Init. W
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021509B Sample Page 7

Description of sample location (Street address and front or back yard):

1518 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay loose

Other pertinent information (weather, conditions, etc.):

cold 40's

SAMPLE COLLECTION TIME: 1335

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

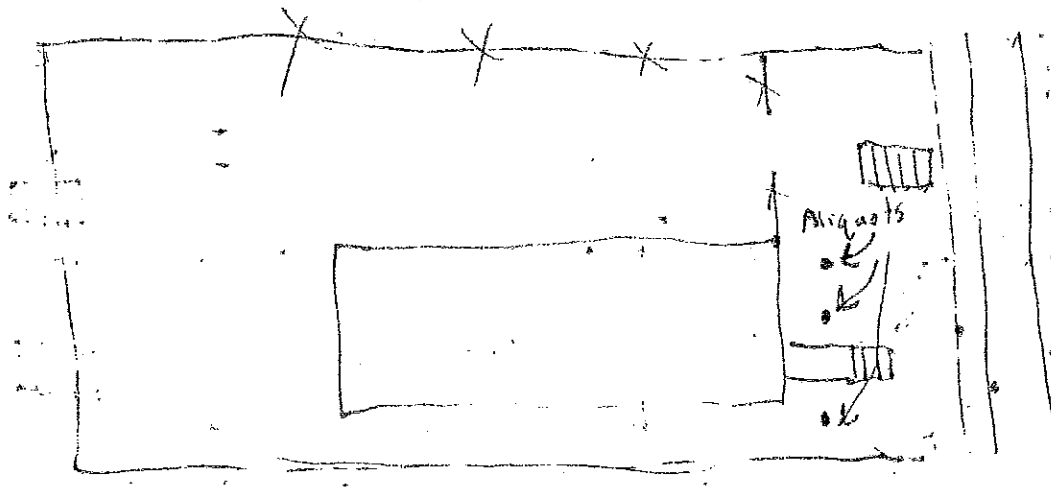
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1520 Sample ID: WA1520

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021414A

Description of sample location (Street address and front or back yard):

1520 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):

cold 40's

SAMPLE COLLECTION TIME: 1405

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

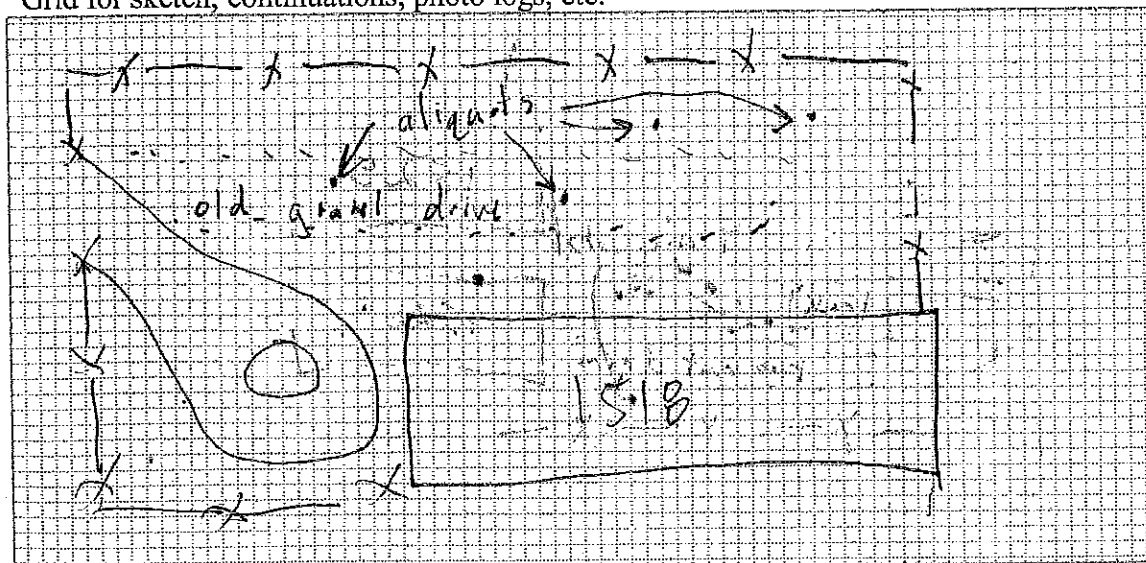
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1526 Sample ID: WA1526SF

Sample Team: _____ or Init. W
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021414B

Description of sample location (Street address and front or back yard):

1526 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material

Other pertinent information (weather conditions, etc.):

cold 40s

SAMPLE COLLECTION TIME: 1435

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

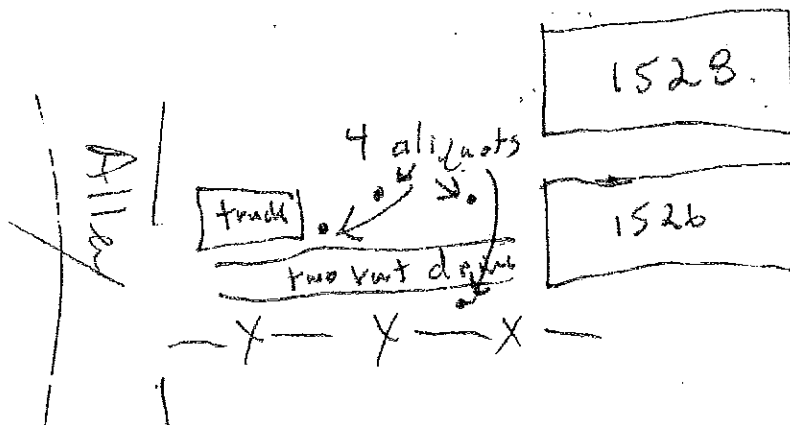
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA 1602 Sample ID: WA1602SF

Sample Team: _____ or Init. W
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SEDS Instrument #: 202 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021415A

Description of sample location (Street address and front or back yard):

1602 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME:

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: 1540

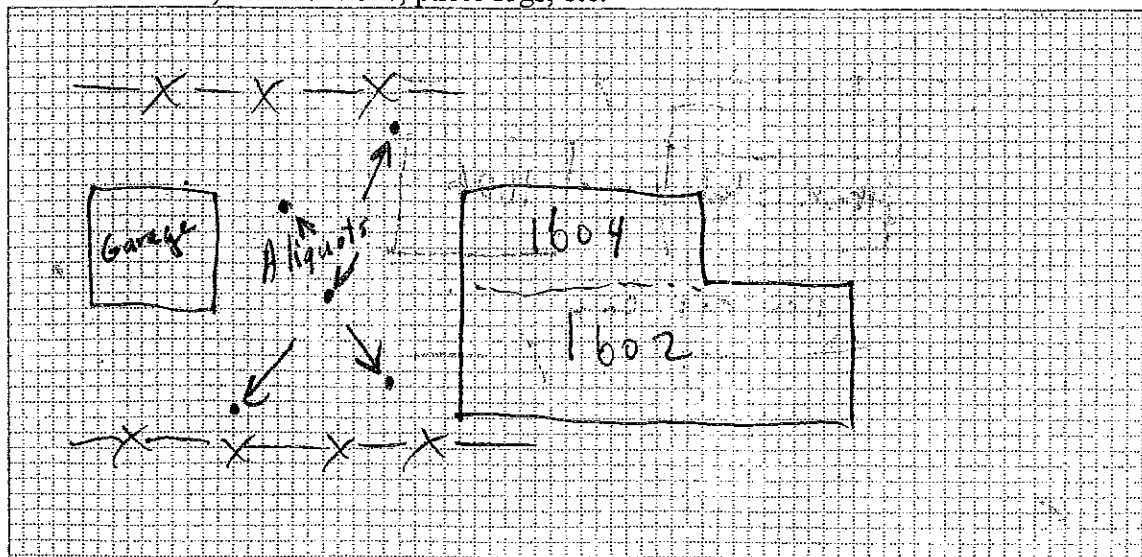
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA1606 Sample ID: WA1606SF

Sample Team: _____ or Init. MA
_____ or Init. MA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: _____ Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021416A

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material 16 brown silty clay

Other pertinent information (weather conditions, etc.):

cold 40's

SAMPLE COLLECTION TIME: 1625

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

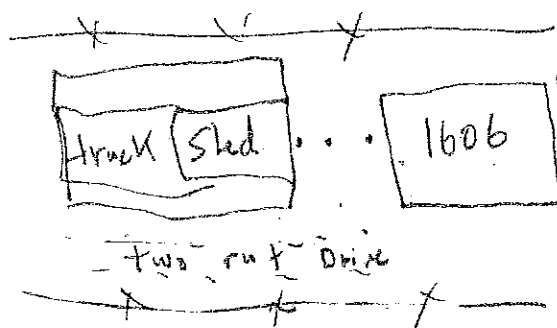
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 12/14/12 Station ID: WA1608 Sample ID: WA1608SF

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: 2 Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) 2021416B

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material _____

Other pertinent information (weather conditions, etc.): _____

SAMPLE COLLECTION TIME: 1650

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

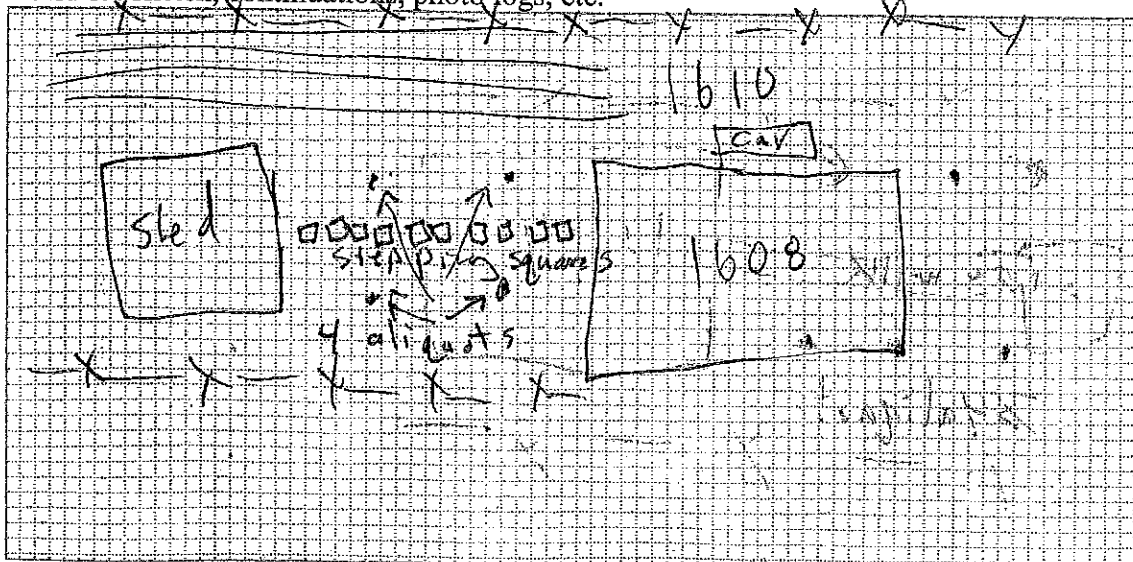
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/14/12 Station ID: WA 1614 Sample ID: WA16145F

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [✓] SESD Instrument #: #2 2021417A Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) 2021416E17A

Description of sample location (Street address and front or back yard):

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material _____

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1715

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

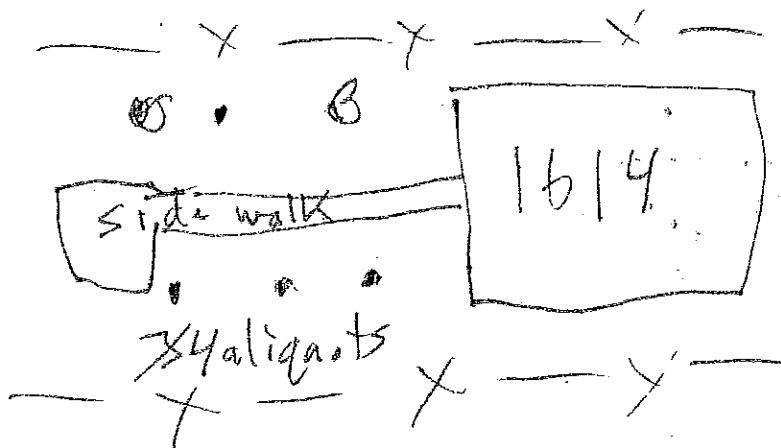
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[✓] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: WA1534 Sample ID: WA1534SF

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] (SESD Instrument #) 2021509A Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1534 Wilson Ave.

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay loose

Other pertinent information (weather conditions, etc.):

cold 30's

SAMPLE COLLECTION TIME: 0855

Field Duplicate: Yes or ☒ No

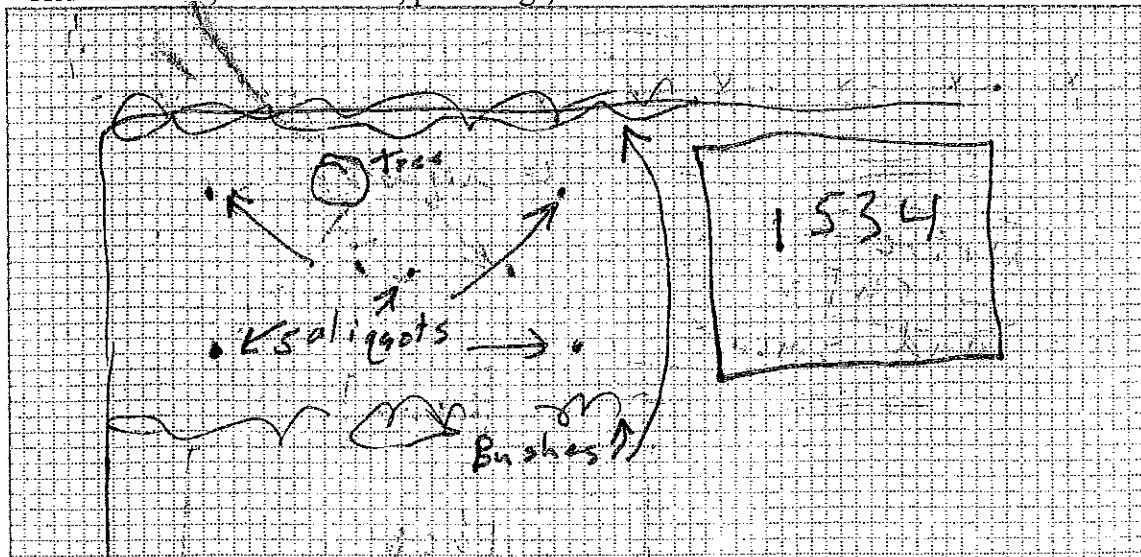
Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? ☒ or ☒ [☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: WA1610X Sample ID: WA1610SFX

Sample Team: _____ or Init. W
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021509C

Description of sample location (Street address and front or back yard):

1610 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):

cool 40°

SAMPLE COLLECTION TIME: 0930

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

1612

X X X X X X X X

Drive
ruts
and smear

4 aliquots

1608

Date: 2/15/12 Station ID: WA 1610 Sample ID: WA 1610 SF

Sample Team: _____ or Init. W
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [☒] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021510A

Description of sample location (Street address and front or back yard):

1610 + 1612 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):

cool 40's

SAMPLE COLLECTION TIME: 1000

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

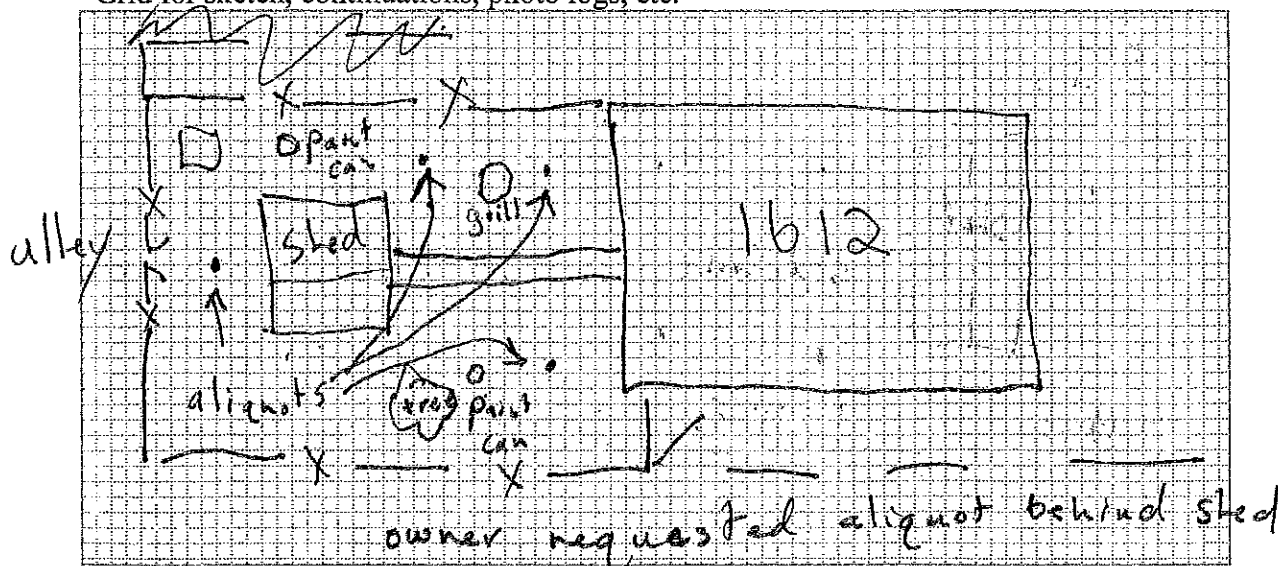
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: WA1618 Sample ID: WA1618SF

Sample Team: _____ or Init. AK
_____ or Init. PK
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] (SES Instrument #) 2021510B Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) _____

Description of sample location (Street address and front or back yard):

1618 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material

brown silty clay

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1040

Field Duplicate: Yes or ☒ No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

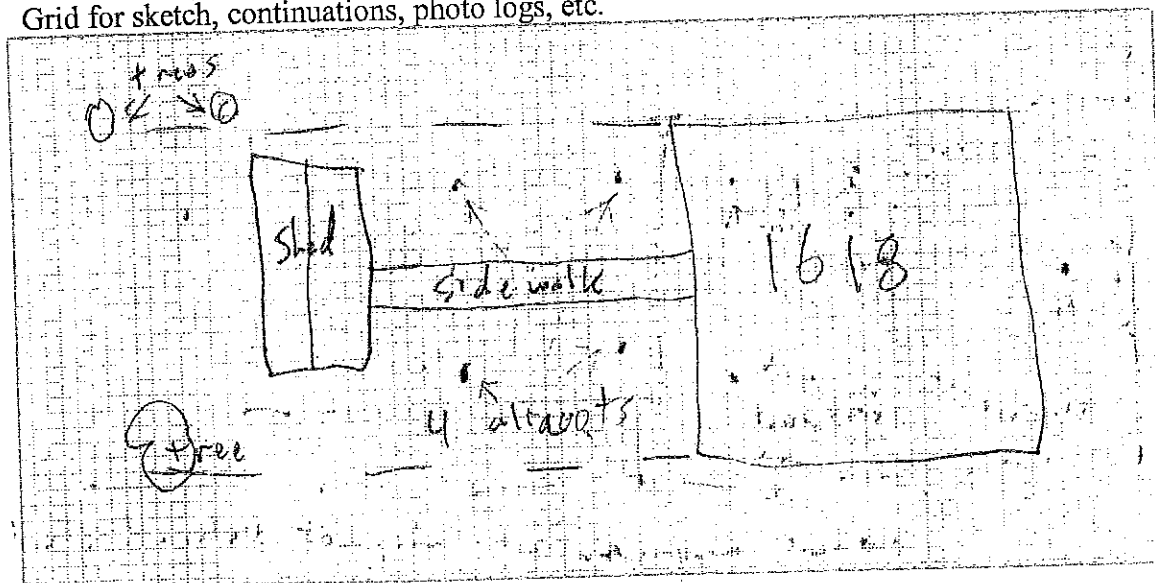
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

[☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: WA1616 Sample ID: WA1616SF

Sample Team: _____ or Init. RA

or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument # 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021511A

Description of sample location (Street address and front or back yard):

1616 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1100

Field Duplicate: Yes or No

Duplicate sample station ID: 2/15/12 Sample ID Date and Time: _____

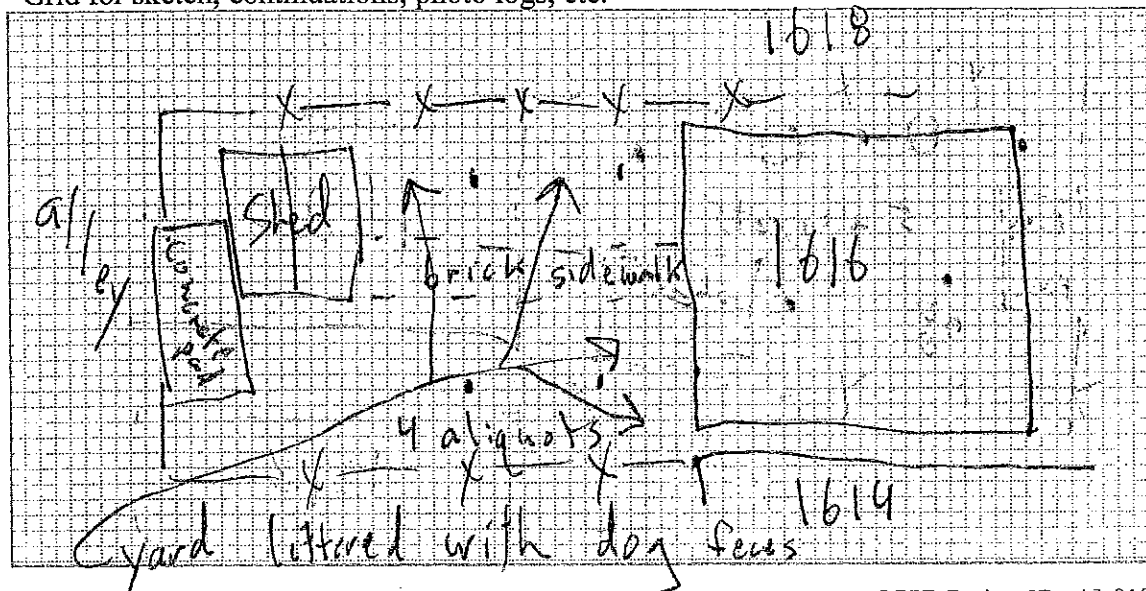
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: WA1620 Sample ID: WA1620 SF

Sample Team: _____ or Init. RA
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021511B

Description of sample location (Street address and front or back yard):
1620 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):
cool 40's

SAMPLE COLLECTION TIME: 1130

Field Duplicate: Yes or No

split Duplicate sample station ID: WA1620 Sample ID Date and Time: WA1620 SFS

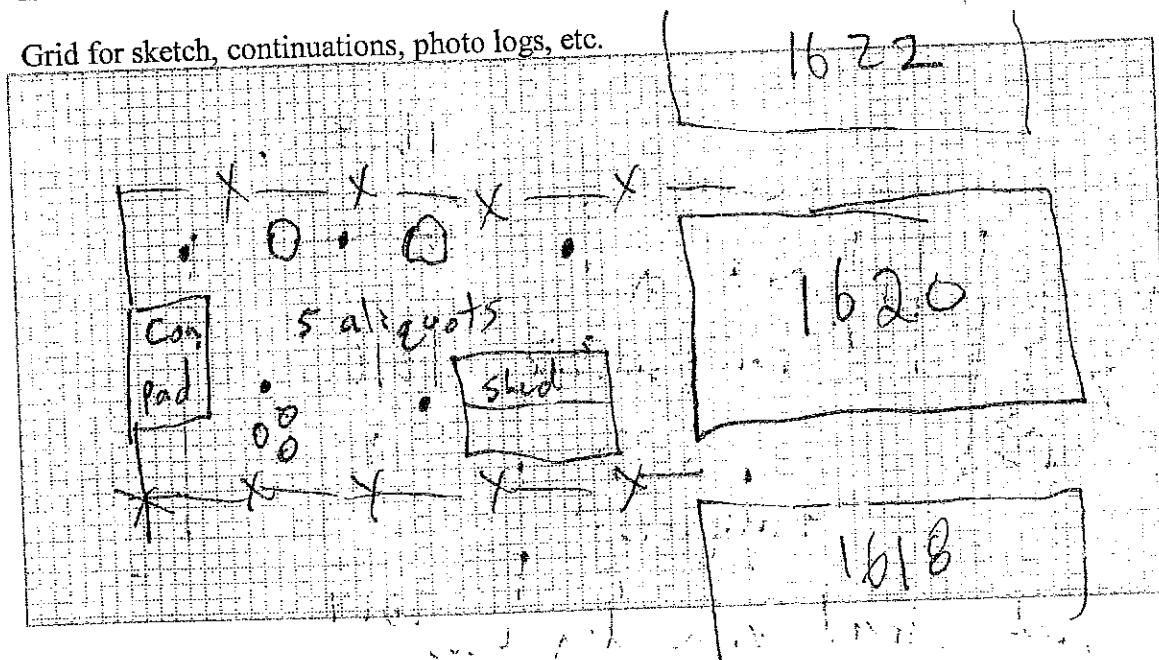
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: WA 1624 Sample ID: WA 1624 SF 1

Sample Team: _____ or Init. AV
_____ or Init. RA
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: 2 Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) 2021512A

Description of sample location (Street address and front or back yard):

1624 Wilson Ave

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook):

Description of Sample Material brown silty clay

Other pertinent information (weather conditions, etc.):

SAMPLE COLLECTION TIME: 1200

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

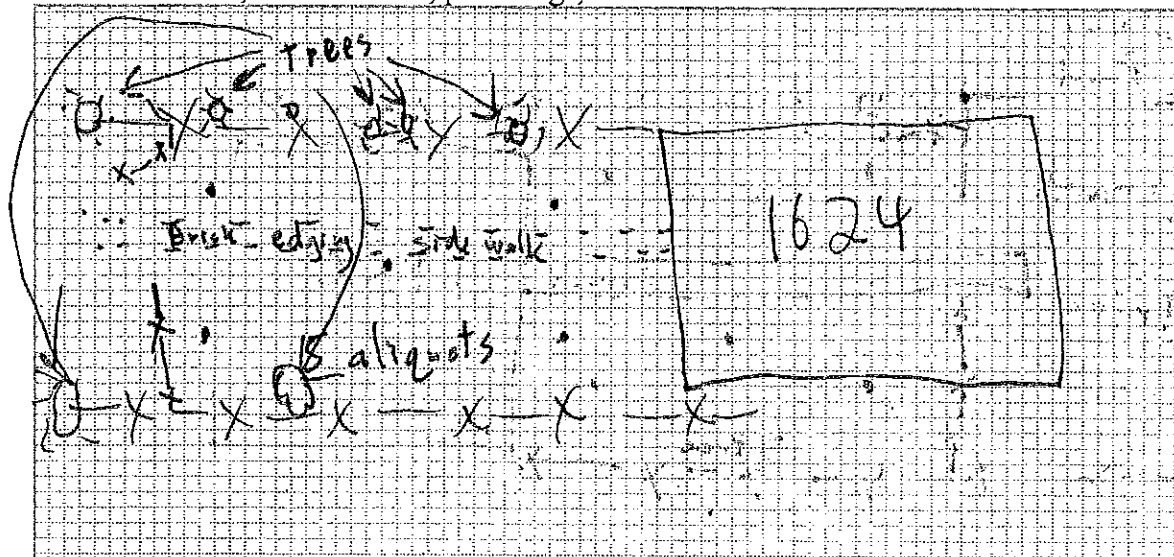
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or N

[☒] All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: 2/15/12 Station ID: SL 1720 Sample ID: SL 1720 SF

Sample Team: _____ or Init. RA
_____ or Init. _____
_____ or Init. _____

GPS Coordinates: Latitude: _____ N Longitude: _____ W

Garmin [] Serial Number _____ Accuracy _____ feet

Trimble [] SESD Instrument #: 2 Logged? ☒ or N

File name and back-up location (laptop, thumb drive, etc.) 2021513A

Description of sample location (Street address and front or back yard): _____

Specific Sampling Procedure/Method Used (if different than found on page 2 of logbook): _____

Description of Sample Material brown silty clay loose

Other pertinent information (weather conditions, etc.):

cool 50's

SAMPLE COLLECTION TIME: 1350

Field Duplicate: Yes or No

Duplicate sample station ID: _____ Sample ID Date and Time: _____

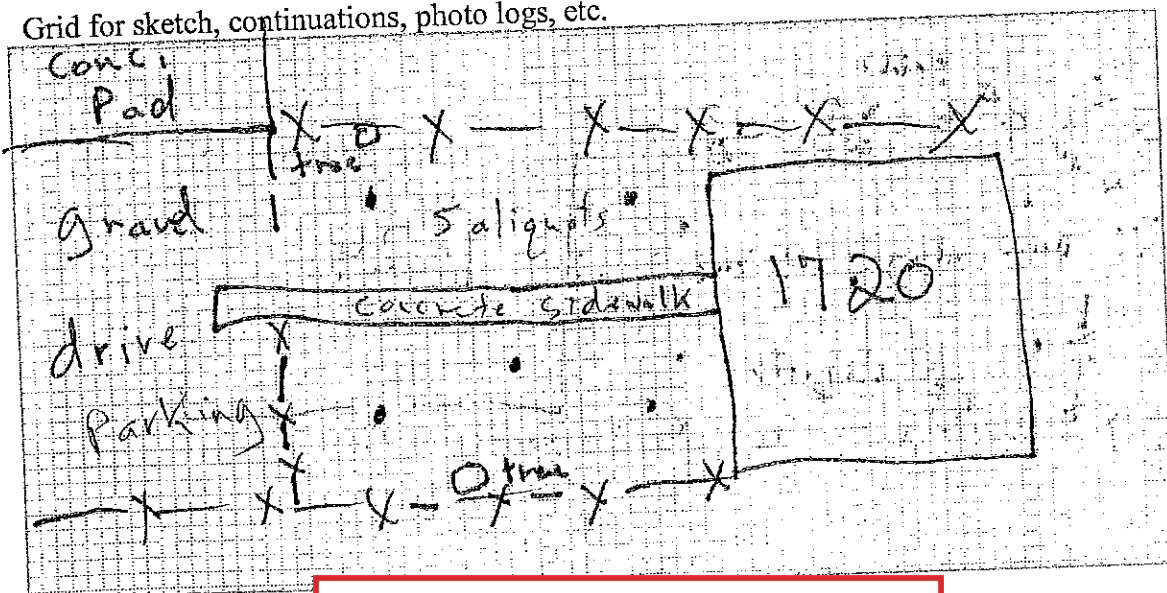
Laboratory Analyses and containers:

| Analyses | Container Type | Number of Containers | | Preservation |
|---------------------------|-----------------------|----------------------|------|----------------|
| | | Primary | Dupe | |
| Lead and Arsenic | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Organochlorine Pesticides | 8 oz wide-mouth glass | 1 | | Ice to 4 deg C |
| Semivolatile Organics | | | | |

MS/MSD? Y or ☒ N

☒ All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



END OF REPORT