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NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

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NCDENR

June 15, 2001

Ms. Jennifer Wendel
NC Site Management Section
US EPA Region IV Waste Division
61 Forsyth Street, 11th Floor
Atlanta, GA 30503

SUBJECT: Expanded Site Investigation (ESI)
Union County Municipal Landfill, NCD 980 503 163
Monroe, Union County, NC

Dear Ms. Wendel:

Enclosed is the Expanded Site Investigation (ESI) for the Union County Municipal Landfill. The Union County Municipal Landfill is located on State Road 1006 (Olive Branch Road) in a rural portion of Union County, approximately 3 miles northeast of the City of Monroe. The site is bounded to the north and west by Richardson Creek, by State Road 1006 to the south, and by State Road 1630 (Austin Chaney Road) to the east. The site's geographic coordinates are 35°02'19.17" north latitude and 81°27'58.08" west longitude (Reference 1).

The Union County Municipal Landfill occupies a total of 151 acres comprised of two contiguous tracts of land: an old tract (66 acres) which was utilized from 1972 to 1979, and a newer expansion (85 acres) which was opened in 1980. The newer section of the landfill was permitted and regulated by and is currently regulated and monitored by the NC Solid Waste Section. The old section of the landfill received three principle types of wastes: solid municipal trash and debris, sludge from the municipal wastewater treatment plant, and various pesticides that were banned from sale in North Carolina. In 1977, the landfill received approximately 800 pounds of several pesticide formulations, including DDT, endosulfan, ethylmercury p-toluene sulfonamide (EMTS), and warfarin. By 1980, the landfill began receiving municipal wastewater sludge, following approval by the North Carolina Solid & Hazardous Waste Management Branch, with receipt of 5400 cubic feet of sludge from the City of Monroe.

During a routine inspection on August 25, 1975, Mr. Richard Doby, District Sanitarian, noted in a letter to Mr. Bill Summerlin, Public Works Director for Union County, that he had observed two (2) small streams of leachate flowing from the bottom of the landfill on the west side.

On August 7, 1984, the Region IV Field Investigation Team (FIT) of the NUS Corporation conducted a Site Screening Investigation (SSI) of the Union County Municipal Landfill. The

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September 24, 1986 FIT report from the SSI included sampling results that detected the presence of metals and pesticides. Based on the results of the SSI conducted by NUS Corporation, further action was recommended by NUS for the Union County Municipal Landfill. A July 25, 1994 Site Inspection Prioritization (SIP) based on the SSI was conducted by Black & Veatch Waste Science, Inc. Black and Veatch also concluded that further action was recommended for the Union County Municipal Landfill.

In 2000, the NC Superfund Section conducted a Site Re-Assessment (SRA) of the Union County Municipal Landfill. The SRA included a review of all previous file data, including the SSI and the SIP. In the June 5, 2000 SRA report, the NC Superfund Section concluded that further action was recommended for the Union County Municipal Landfill based on the previously observed release of site contaminants to Richardson Creek and the potential environmental impacts to both the surface water and groundwater pathways. The site was recommended for an Expanded Site Investigation (ESI).

During the ESI, only one of the source areas sampled was found to contain contaminants at levels significantly above background. The inorganic analysis for sample UCL-013-SS contained elevated levels of antimony, cobalt, magnesium, and nickel, though none of these levels exceeded EPA Soil Benchmarks or the NC Soil Remediation Goals.

Groundwater sampling for the ESI was concentrated on 5 monitoring wells and 3 private wells. Several inorganics were detected at levels significantly above background in the on-site monitoring wells, including barium, cadmium, calcium, chromium, cobalt, magnesium, manganese, nickel, potassium, sodium, and zinc, with manganese exceeding the EPA Health Based Benchmark in UCL-003-MW. Of these contaminants, nickel and manganese were detected in two private wells at levels significantly above background. Organic compounds detected at levels significantly higher than background in the on-site monitoring wells include cis-1,2-dichloroethane, chlorobenzene, 1,4-dichlorobenzene, and 1,1-dichloroethane. There were no organic compounds detected in any of the private wells, including the background well (UCL-010-PW). No other levels of contaminants detected in the groundwater samples associated with the site exceeded the EPA Health Based Benchmarks and the NC Groundwater Remediation Goals.

The only potential target for the surface water pathway is the human food chain. Richardson Creek is considered a fishery with moderate fishing pressure. Analysis of surface water samples indicated levels of some inorganics in the fishery to be significantly higher than background. Iron, lead, and copper exceeded their EPA Health Benchmarks at the first PPE. Iron also exceeded the EPA Health Based Benchmark at the the second PPE and the fishery just downstream stream of the second PPE. No additional inorganics exceeded their EPA Health Based Benchmarks. 4-Methylphenol was the only organic compound to be detected in the fishery significantly higher than background.

Workers were viewed on the property during both the on-site reconnaissance and the ESI sampling event. There are no residences, day care centers, or schools located on site or within 200 feet of the source areas. The nearest residence is located approximately 500 feet to the east of the site on Austin Chaney Road.

Based on the sample results of the ESI and the lack of targets, the Union County Municipal Landfill is recommended for no further action under CERCLA. However, because of the documented exceedances (NCAC 13B .1600 rules) of landfill gas and groundwater contamination in the buffer area surrounding the landfill, environmental assessment of the site shall continue under the regulatory authority of the Division of Waste Management, Solid Waste Section.

Sincerely,

Melanie Bryson, EIT

Melanie Bryson, E.I.T.
Environmental Engineer
NC Superfund Section

# STATE OF NORTH CAROLINA

*Department of Environment*
*and Natural Resources*
*Division of Waste Management*
*Superfund Section*

## *EXPANDED SITE INSPECTION (ESI)*

*June 2001*

*Union County Municipal Landfill*
*NCD 980 503 163*
*Monroe, Union County, North Carolina*
*Reference No. 03000*

*Melanie Bryson, E.I.T*
*Environmental Engineer*
*Division of Waste Management*
*Superfund Section*

# *EXPANDED SITE INVESTIGATION*

Union County Municipal Landfill
NCD 980 503 163
Monroe, Union County, NC

June 2001

Superfund Section
Division of Waste Management
North Carolina Department of Environment
and Natural Resources


Prepared by:

Melanie Bryson, EIT

Melanie Bryson, E.I.T
Environmental Engineer

Reviewed by:

Dan LaMontagne, Head
Site Evaluation & Removal Branch

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## EXECUTIVE SUMMARY

The Union County Municipal Landfill occupies a total of 151 acres comprised of two contiguous tracts of land: an old tract (66 acres) which was utilized from 1972 to 1979, and a newer expansion (85 acres) which was opened in 1980. The newer section of the landfill was permitted and regulated by and is currently regulated and monitored by the NC Solid Waste Section The old section of the landfill received three principle types of wastes: solid municipal trash and debris, sludge from the municipal wastewater treatment plant, and various pesticides that were banned from sale in North Carolina. In 1977, the landfill received approximately 800 pounds of several pesticide formulations, including DDT, endosulfan, ethylmercury p-toluene sulfonamide (EMTS), and warfarin. By 1980, the landfill began receiving municipal wastewater sludge, following approval by the North Carolina Solid & Hazardous Waste Management Branch, with receipt of 5400 cubic feet of sludge from the City of Monroe.

During a routine inspection on August 25, 1975, Mr. Richard Doby, District Sanitarian, noted in a letter to Mr. Bill Summerlin, Public Works Director for Union County, that he had observed two (2) small streams of leachate flowing from the bottom of the landfill on the west side.

On August 7, 1984, the Region IV Field Investigation Team (FIT) of the NUS Corporation conducted a Site Screening Investigation (SSI) of the Union County Municipal Landfill. The September 24, 1986 FIT report from the SSI included sampling results that detected the presence of metals and pesticides. Based on the results of the SSI conducted by NUS Corporation, further action was recommended by NUS for the Union County Municipal Landfill. A July 25, 1994 Site Inspection Prioritization (SIP) based on the SSI was conducted by Black & Veatch Waste Science, Inc. Black and Veatch also concluded that further action was recommended for the Union County Municipal Landfill.

In 2000, the NC Superfund Section conducted a Site Re-Assessment (SRA) of the Union County Municipal Landfill. The SRA included a review of all previous file data, including the SSI and the SIP. In the June 5, 2000 SRA report, the NC Superfund Section concluded that further action was recommended for the Union County Municipal Landfill based on the previously observed release of site contaminants to Richardson Creek and the potential environmental impacts to both the surface water and groundwater pathways. The site was recommended for an Expanded Site Investigation (ESI).

During the ESI, only one of the source areas sampled was found to contain contaminants at levels significantly above background. The inorganic analysis for sample UCL-013-SS contained elevated levels of antimony, cobalt, magnesium, and nickel, though none of these levels exceeded EPA Soil Benchmarks or the NC Soil Remediation Goals.

Groundwater sampling for the ESI was concentrated on 5 monitoring wells and 3 private wells. Several inorganics were detected at levels significantly above background in the on-site monitoring wells, including barium, cadmium, calcium, chromium, cobalt, magnesium, manganese, nickel, potassium, sodium, and zinc, with manganese exceeding the EPA Health Based Benchmark in UCL-003-MW. Of these contaminants, nickel and manganese were detected in two private wells

at levels significantly above background. Organic compounds detected at levels significantly higher than background in the on-site monitoring wells include cis-1,2-dichloroethane, chlorobenzene, 1,4-dichlorobenzene, and 1,1-dichloroethane. There were no organic compounds detected in any of the private wells, including the background well (UCL-010-PW). No other levels of contaminants detected in the groundwater samples associated with the site exceeded the EPA Health Based Benchmarks and the NC Groundwater Remediation Goals.

The only potential target for the surface water pathway is the human food chain. Richardson Creek is considered a fishery with moderate fishing pressure. Analysis of surface water samples indicated levels of some inorganics in the fishery to be significantly higher than background. Iron, lead, and copper exceeded their EPA Health Benchmarks at the first PPE. Iron also exceeded the EPA Health Based Benchmark at the the second PPE and the fishery just downstream stream of the second PPE. No additional inorganics exceeded their EPA Health Based Benchmarks. 4-Methylphenol was the only organic compound to be detected in the fishery significantly higher than background.

Workers were viewed on the property during both the on-site reconnaissance and the ESI sampling event. There are no residences, day care centers, or schools located on site or within 200 feet of the source areas. The nearest residence is located approximately 500 feet to the east of the site on Austin Chaney Road.

Based on the sample results of the ESI and the lack of targets, the Union County Municipal Landfill is recommended for no further action under CERCLA. However, because of the documented exceedances (NCAC 13B .1600 rules) of landfill gas and groundwater contamination in the buffer area surrounding the landfill, environmental assessment of the site shall continue under the regulatory authority of the Division of Waste Management, Solid Waste Section.

## 1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the NC Superfund Section conducted an Expanded Site Inspection (ESI) at the Union County Municipal Landfill, intersection of State Road 1006 (Olive Branch Road) and State Road 1630 (Austin Chaney Road), Monroe, Union County, North Carolina (US EPA ID: NCD 980 503 163). The purpose of this investigation was to collect information concerning conditions at the site sufficient to assess the threat posed to human health and the environment and to determine the need for additional CERCLA/SARA or other appropriate action. The scope of the investigation included review of available file information, a comprehensive target survey, on-site reconnaissance (January 9, 2001), well survey (February 13, 2001), interviewing neighbors, and collecting environmental samples (February 26 - 27, 2001).

## 2.0 SITE DESCRIPTION

### 2.1 Location

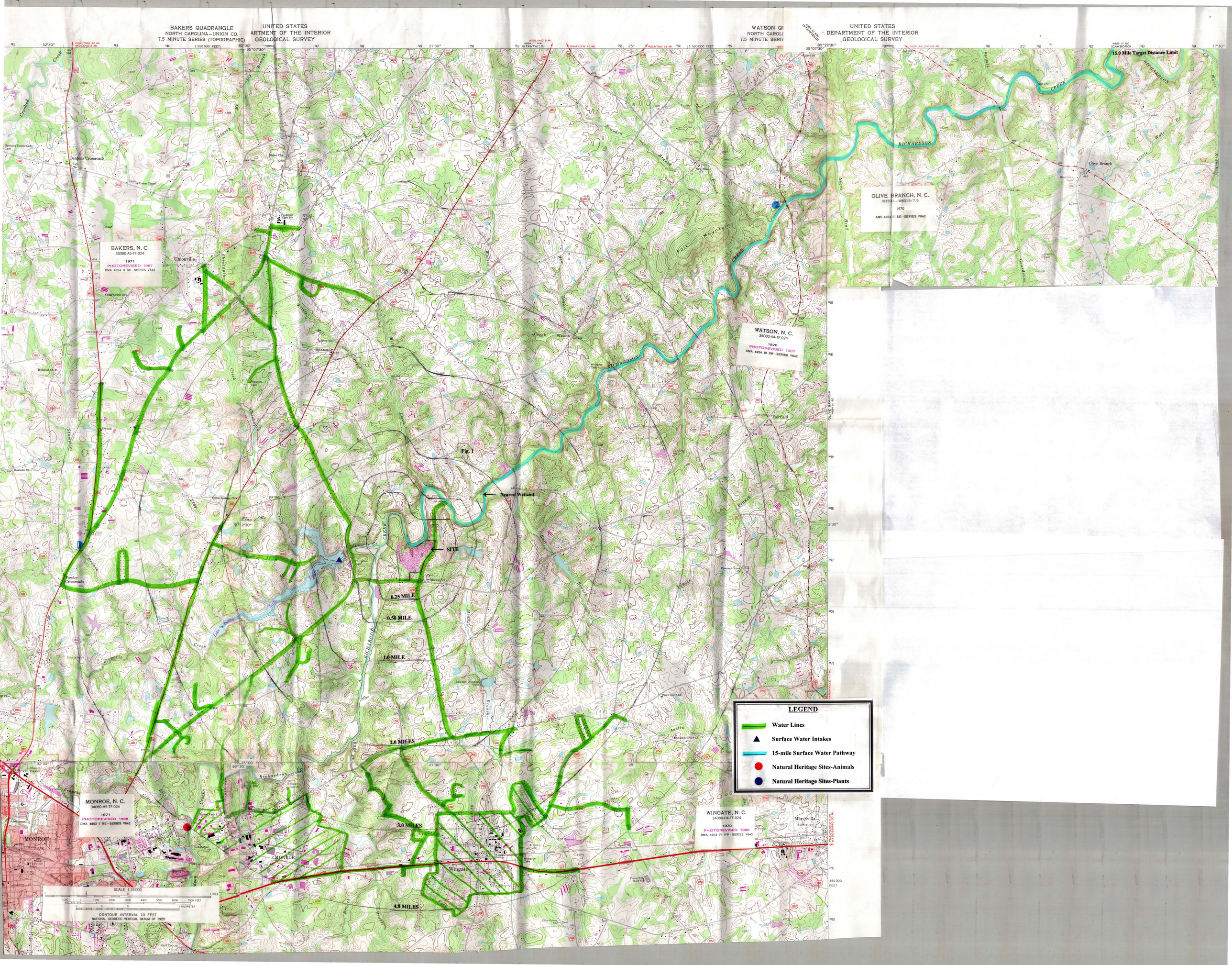
The Union County Municipal Landfill is located on State Road 1006 (Olive Branch Road) in a rural portion of Union County, approximately 3 miles northeast of the City of Monroe. The site is bounded to the north and west by Richardson Creek, by State Road 1006 to the south, and by State Road 1630 (Austin Chaney Road) to the east. The site's geographic coordinates are 35°02'19.17" north latitude and 81°27'58.08" west longitude (Reference 1, Figure 1).

The two-year twenty-four hour rainfall for Union County averages 3.5 inches (Ref. 2). Normal annual total precipitation averages 45 inches, while mean annual lake evaporation averages 41 inches, therefore, net annual precipitation averages 4.0 inches near the site (Ref. 3).

### 2.2 Site Description and Site History

The landfill occupies 151 acres comprised of two contiguous tracts of land: an old tract (66 acres) which was utilized from 1972 to 1979, and a newer expansion (85 acres) which was opened in 1980 (Ref. 4, pg. 3).The newer section of the landfill was permitted and regulated by and is currently regulated and monitored by the NC Solid Waste Section (Ref. 5).

The old section of the landfill received three principle types of wastes: solid municipal trash and debris, sludge from the municipal wastewater treatment plant, and various pesticides that were banned from sale in North Carolina (Ref. 4, pg. 4). In 1977, the landfill received approximately 800 pounds of several pesticide formulations, including DDT, endosulfan, ethylmercury p-toluene sulfonamide (EMTS), and warfarin (Ref. 6). By 1980, the landfill began receiving municipal wastewater sludge, following approval by the North Carolina Solid & Hazardous Waste Management Branch, with receipt of 5400 cubic feet of sludge from the City of Monroe (Ref. 7).


BAKERS QUADRANGLE
NORTH CAROLINA–UNION CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATSON QUADRANGLE
NORTH CAROLINA
7.5 MINUTE SERIES
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
15.0 Mile Target Distance Limit
BAKERS, N. C.
35080-A5-TF-024
1971
PHOTOREVISED 1987
DMA 4854 II SE–SERIES V842
WATSON, N. C.
35080-A4-TF-024
1970
PHOTOREVISED 1987
DMA 4954 III SW–SERIES V842
OLIVE BRANCH, N. C.
N3500—W8015/7.5
1970
AMS 4954 III SE–SERIES V842
MONROE, N. C.
34080-H5-TF-024
1971
PHOTOREVISED 1988
DMA 4853 I NE–SERIES V842
WINGATE, N. C.
34080-H4-TF-024
1970
PHOTOREVISED 1988
DMA 4953 IV NW–SERIES V842
Fig. 1
Nearest Wetland
SITE
0.25 MILE
0.50 MILE
1.0 MILE
2.0 MILES
3.0 MILES
4.0 MILES
LEGEND
Water Lines
Surface Water Intakes
15-mile Surface Water Pathway
Natural Heritage Sites-Animals
Natural Heritage Sites-Plants
SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

## 2.3 Regulatory History and Waste Characteristics

During a routine inspection on August 25, 1975, Mr. Richard Doby, District Sanitarian, noted in a letter to Mr. Bill Summerlin, Public Works Director for Union County, that he had observed two (2) small streams of leachate flowing from the bottom of the landfill on the west side (Ref. 8).

On August 7, 1984, the Region IV Field Investigation Team (FIT) of the NUS Corporation conducted a Site Screening Investigation (SSI) of the Union County Municipal Landfill (Ref. 4, pg. 2). The September 24, 1986 FIT report from the SSI included sampling results that detected the presence of metals and pesticides (Ref. 4).

The surface water pathway was sampled at three locations during the SSI: upstream of the site (UW/S-01), downstream of the site (DW/S-02), and 1,000 feet upstream of the old section of the landfill (MW/S-03). At the downstream sample location (DW/S-02), chromium (77 ug/l) and iron (2,300 ug/l) were detected in an observed release from the landfill at concentrations exceeding the benchmarks established by Federal and State regulations for the protection of human health and the environment (Ref. 9). Cyanide (12 ug/l), methyl ethyl ketone (10 ug/l), and trace amounts of toluene, chlorobenzene, ethyl benzene, m-xylene, and o & p xylene (mixed) were all detected at levels significantly above the background (UW/S-01) concentrations (either three times the background concentration or above the detection limit when not detected in the background sample) in the downstream sample (DW/S-02). The surface water sample collected upstream of the old section (MW/S-03) detected cyanide (27 ug/l) significantly above the background concentration (Ref. 4).

A sediment sample collected downstream of the landfill (DW/S-02) contained di-n-butylphthalate (0.2 mg/kg), tetrachloroethylene (0.015 mg/kg), arsenic (4.5 mg/kg), beryllium (0.4 mg/kg), cobalt (3.7 mg/kg), iron (16,000 mg/kg), and vanadium (18 mg/kg) at levels significantly above the background (UW/S-01) concentrations. Levels of 1,1-dichloroethane (0.043 mg/kg), arsenic (1,200 mg/kg), and mercury (0.1 mg/kg) were detected significantly above the background (UW/S-01) concentrations in the upstream sample (MW/S-03) (Ref. 4).

Three groundwater samples were collected from existing wells during the SSI: one from an onsite well (OW-01), one northeast of the landfill on SR 1630 (PW-02), and a background sample directly south of the landfill at the intersection of SR 1006 and SR 1630 (CSW-03) (Ref. 4). Based on topography, the groundwater flow is towards the north, away from the landfill towards Richardson Creek (Reference 9, pg. 3).

Levels of arsenic (51 ug/l), cadmium (2.7 ug/l), chromium (15 ug/l), copper (450 ug/l), lead (95 ug/l), zinc (1,300 ug/l), and iron (52,000 ug/l) were detected in the onsite well (OW-01) significantly above the background (CSW-03) concentrations. Arsenic (51 ug/l) and zinc (1,300 ug/l) exceeded Federal and State benchmarks established for the protection of human health (Ref. 9), while arsenic (51 ug/l), iron (52,000 ug/l), and lead (95 ug/l) exceeded the North Carolina groundwater standards found in 15A NCAC 2L (Ref. 10). Toluene (2 ug/l) and chromium (10 ug/l) were detected at levels significantly above the background (CSW-03) concentrations in the well located northeast of the landfill (PW-02) (Ref. 4).

Three soil samples were collected from locations around the landfill. A sample collected from a deep erosion gully near the northeastern corner of the landfill (CS-05), contained di-n-butylphthalate (estimated at 0.2 mg/kg) and 4,4'-DDT (estimated at 0.1 mg/kg). A soil sample collected from a shallow diversion trench at the base of the landfill near the northeastern corner (TS-06), contained bis(2-ethylhexyl) phthalate (0.47 mg/kg) and 4,4'-DDT (estimated at 0.1 mg/kg). The third sample, collected from an eroded ditch that drains the northeast corner of the landfill (DGS-04), contained cyanide (0.28 mg/kg). All three soil samples contained a variety of metals, though no concentration exceeded the range of background metal concentrations for the eastern United States (Ref. 4).

Based on the results of the SSI conducted by NUS Corporation, further action was recommended for the Union County Municipal Landfill (Ref. 4, pg. 12). A July 25, 1994 Site Inspection Prioritization (SIP) based on the SSI was conducted by Black & Veatch Waste Science, Inc. (Ref. 11). The SIP also concluded that further action was recommended for the Union County Municipal Landfill (Ref. 11, pg. 5).

In 2000, the NC Superfund Section conducted a Site Re-Assessment (SRA) of the Union County Municipal Landfill. The SRA included a review of all previous file data, including the SSI and the SIP. The June 5, 2000 report concluded that further action was recommended for the Union County Municipal Landfill based on the previously observed release of site contaminants to Richardson Creek and the potential environmental impacts to both the surface water and groundwater pathways (Ref. 12).

## 3.0 WASTE/SOURCE SAMPLING

### 3.1 Source Locations and Sampling

Based on the previous SSI by NUS Corporation (Ref. 4) and the January 9, 2001 on-site reconnaissance (Ref. 13), the potential source areas listed below have been identified at the Union County Municipal Landfill.

1. Surface soil sample from discharge location of current sediment pond.
2. Subsurface soil sample from within landfill below the cap.

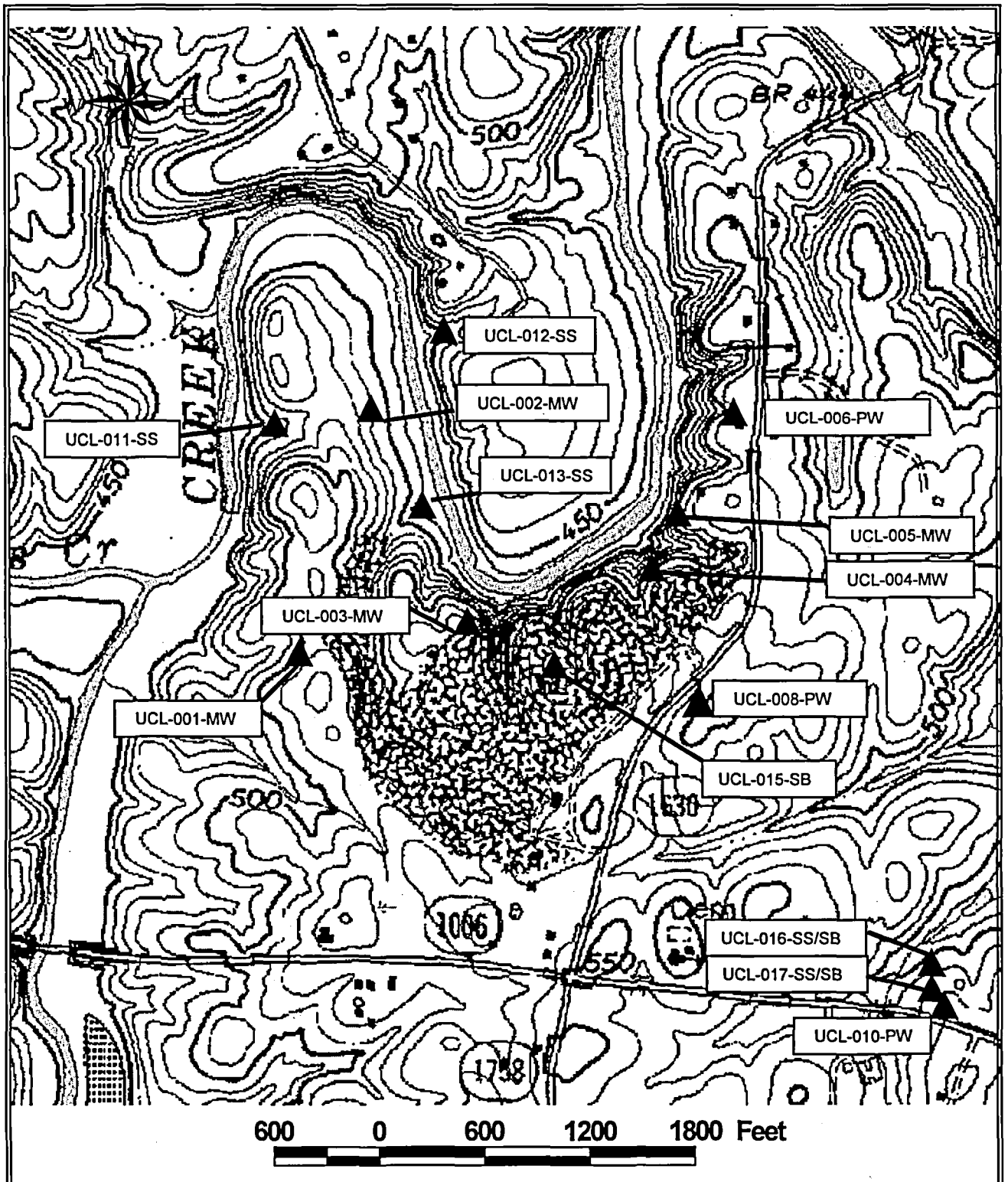
The sampling plan was chosen to determine the presence of contaminants at the potential site source areas (Ref. 14). Source sample locations for the February 2001 ESI are described in Table 1 and shown in Fig. 2. The locations of samples collected by NUS Corporation are identified in Fig. 3.

All sampling was conducted by NC Superfund Section staff according to section SOPs and US EPA Region IV, "Environmental Investigations Standard Operating Procedures and Quality Assurance Manual", May 1996. Samples were submitted to CLP labs and analyzed for volatile organics, semi-volatile organics, metals, cyanide, and pesticides (Appendix A).

**Table 1**
Source Area Sample Locations and Descriptions
Union County Municipal Landfill, Monroe, Union County

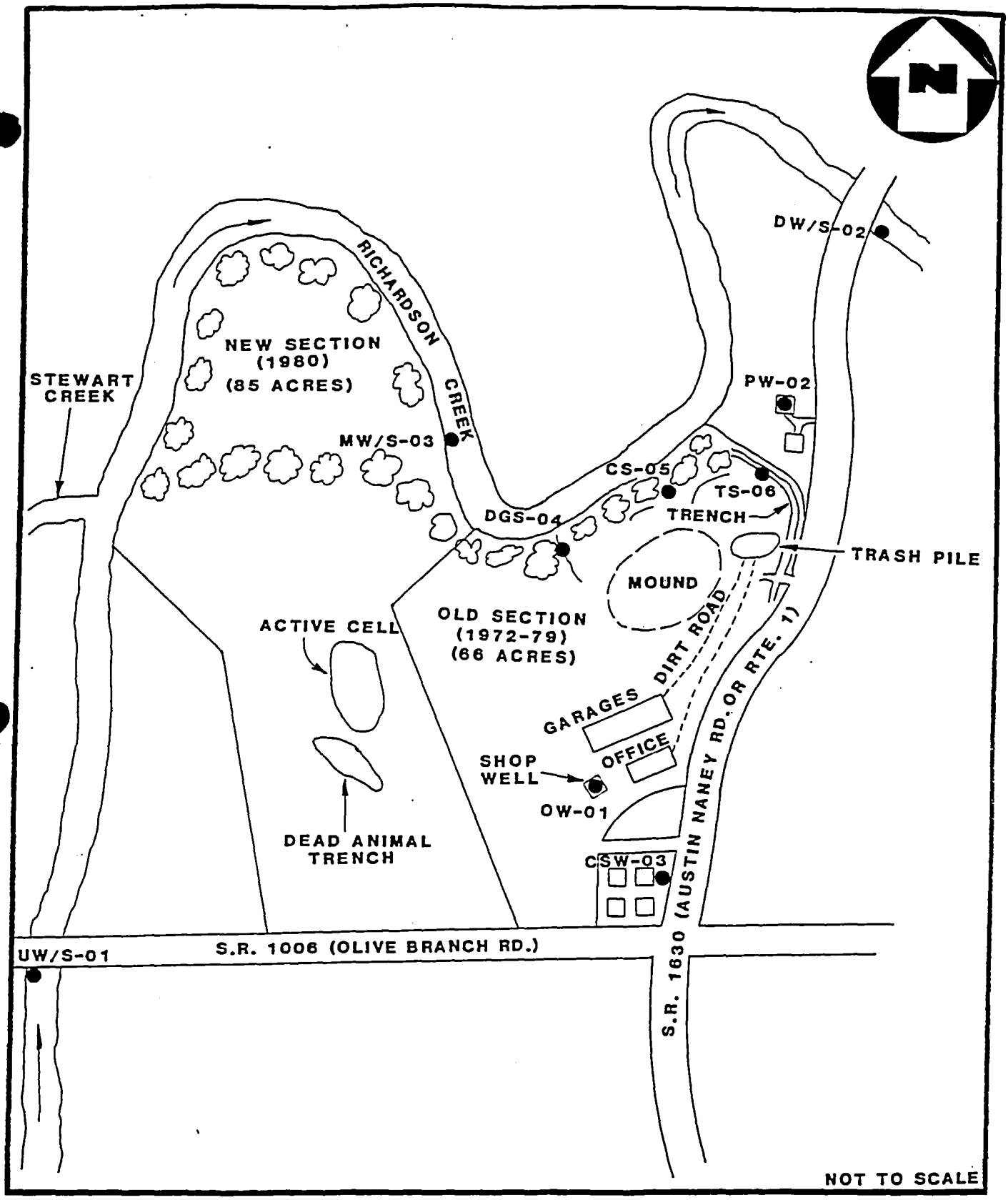
| Sample ID | Description | Comments | Matrix | Analysis |
|---|---|---|---|---|
| UCL-013-SS | Surface soil sample from discharge location of current sediment pond near northern intersection of new and old sections of landfill | Potential source sample. | Soil | V,S,I,CN |
| UCL-015-SB | Subsurface soil sample from within the old section of landfill below the cap. | Potential source sample. | Soil | V,S,I,CN |

V = Volatile organics; S = Semi-volatile organics and pesticides/PCBs; I=Inorganics; CN=Cyanide




| | | |
|---|---|---|
| NCDENR | Site: Union Co Muni Ldfl | Figure 2 |
| | US EPA ID #: NCD980503163 | Date: 6/1/01 |
| | Monroe, Union County | Drawn By: MDB |
| | Approximate Scale: See Above | MW, PW, SS/SB Samples |

Fig. 3




**SAMPLE LOCATIONS**
**UNION COUNTY LANDFILL**
**MONROE, NORTH CAROLINA**

**FIGURE 2**

NUS CORPORATION
A Halliburton Company

## 3.2 Source Sampling Analytical Results

Analytical results for source sampling conducted during the February 2001 ESI are included in Appendix A and summarized below in Tables 2 and 3. Tables 2 and 3 list all analytes measured above detection limits in at least one sample. Contaminants detected at levels significantly above background are shown in bold. Contaminants were considered to be significantly above background if they were detected at levels greater than or equal to three times the higher background concentration for that contaminant or if they were detected in the source sample but not detected in the background. None of the source samples exceeded EPA health-based soil benchmarks for residential exposures (Ref. 9) or NC Soil Remediation Goals (Ref. 15). Two background surface soil samples (UCL-016-SS and UCL-017-SS) and two background subsurface soil samples (UCL-016-SB and UCL-017-SB) were collected to account for spatial variation in concentration of naturally occurring compounds.

One of the source areas sampled contained contaminants at levels significantly above background: the discharge location from the current sediment pond near the northern intersection of the new and old sections of the landfill (UCL-013-SS) (Photo 1). The inorganic analysis for the surface soil sample UCL-013-SS contained elevated levels of antimony (1.1J mg/kg), cobalt (18 mg/kg), magnesium (5,300 mg/kg), and nickel (25 mg/kg). These concentrations were all significantly above background conditions but did not exceed EPA Soil Benchmarks or the NC Soil Remediation Goals (Ref. 9, 15).

The analysis for organic compounds, including pesticides, revealed no elevated levels of any contaminant in the source samples.

**Table 2**
Source Sample Organic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | NC Remediation Goals | UCL-013-SS | UCL-016-SS (Background) | UCL-017-SS (Background) | UCL-015-SB | UCL-016-SB (Background) | UCL-017-SB (Background) |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | ug/kg | 1,900 | 1,900 | U | U | 14 | U | U | U |
| 4,4'-DDT | ug/kg | 1,900 | 1,900 | U | U | 9.5 | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg | 46,000 | 46,000 | U | U | U | U | 760 | U |
| 2-Pentanone,4-Hydroxy-4-Met | ug/kg | N/A | N/A | 20,000J | 23,000J | 18,000J | 19,000J | 15,000J | 17,000J |

Values in **bold** indicate concentrations greater than three times background.
N/A=not applicable
J=estimated value
U=analyzed for but not detected
1-Ref. 9
2-Ref. 15

**Table 3**
Source Sample Inorganic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | NC Remediation Goals | UCL-013-SS | UCL-016-SS (Background) | UCL-017-SS (Background) | UCL-015-SB | UCL-016-SB (Background) | UCL-017-SB (Background) |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/kg | N/A | N/A | 17,000 | 10,000 | 11,000 | 14,000 | 7,800 | 11,000 |
| Antimony | mg/kg | 31 | 6.2 | **1.1J** | U | U | U | 1.2J | 0.76J |
| Barium | mg/kg | 5,500 | N/A | 43 | 91 | 94 | 37 | 19 | 25 |
| Calcium | mg/kg | N/A | N/A | 720 | 1,300 | 1,900 | 340 | 500 | 380 |
| Chromium | mg/kg | 390 | 46* | 30 | 34 | 42 | 26 | 37 | 25 |
| Cobalt | mg/kg | N/A | N/A | **18** | 5.9 | 5.8 | 19 | 1.8 | 28 |
| Copper | mg/kg | N/A | 620 | 36 | 22 | 25 | 32 | 26 | 42 |
| Iron | mg/kg | N/A | N/A | 36,000J | 36,000J | 37,000J | 30,000J | 43,000J | 35,000J |
| Lead | mg/kg | N/A | 400 | 9.7 | 36 | 36 | 11 | 13 | 21 |
| Magnesium | mg/kg | N/A | N/A | **5,300** | 1,100 | 1,200 | 4,700 | 990 | 2,300 |
| Manganese | mg/kg | 11,000 | N/A | 510 | 440 | 420 | 510 | 86 | 540 |
| Total Mercury | mg/kg | 23 | 4.6 | U | 0.21 | 0.18 | U | U | U |
| Nickel | mg/kg | 1,600 | 320 | **25** | 7.6 | 8 | 22 | 5.2 | 19 |
| Potassium | mg/kg | N/A | N/A | 440 | 570 | 500 | 190 | 61 | 80 |
| Selenium | mg/kg | 390 | 78 | U | 1.7J | U | U | 1.7J | U |
| Vanadium | mg/kg | 550 | 1.1 | 35 | 43 | 46 | 31 | 43 | 32 |
| Zinc | mg/kg | 23,000 | 4,600 | 110 | 180 | 240 | 60 | 21J | 46 |

Values in **bold** indicate concentrations greater than three times background.
*Form of chromium unknown; used most restrictive remediation goal
N/A=not applicable
J=estimated value
U=analyzed for but not detected
1-Ref. 9
2-Ref. 15

## 3.3 Source Area/Volume

Based on the SSI conducted by NUS Corporation (Ref. 4) and the samples collected during the February 26-27, 2001 ESI, there are a total of two source areas.

The first defined source area is the old section of the landfill that was in operation from 1972 until 1979. Based on that portion of the landfill, the source area would be 66 acres, or 2,874,960 square feet (Ref. 4, pg. 3)

The second defined source area, based on sampling collected during the ESI, is the sediment pond located at the northern intersection of the new and old sections of the landfill. No field measurements were collected during the ESI. Therefore, a source area of one square foot will be used.

### 3.4 Source Area Conclusions

Only one of the source areas sampled contained contaminants at levels significantly above background: the discharge location from the current sediment pond near the northern intersection of the new and old sections of the landfill (UCL-013-SS). The inorganic analysis for UCL-013-SS revealed elevated levels of antimony (1.1J mg/kg), cobalt (18 mg/kg), magnesium (5,300 mg/kg), and nickel (25 mg/kg), though none of these levels exceeded EPA Soil Benchmarks or the NC Soil Remediation Goals (Ref. 9, 15).

## 4.0 GROUNDWATER PATHWAY

### 4.1 Hydrogeologic Setting

The site is located in the upland section of the Piedmont Physiographic Province of NC. The site is underlain by the tuffaceous argillite unit, composed predominantly of felsic tuffaceous argillite and graywacke, which contains basic tuffaceous argillite, felsic tuff, mafic tuff, and flow material interbedded with the two predominant rock types (Ref. 16).

The hydraulic conductivity of the material in the unsaturated zone beneath the source areas is estimated to be $1x10^{-6}$ cm/sec (Ref. 17). The soil type for the landfill is Udorthents, which is well drained or moderately well drained. The altered soils are predominantly loamy or clayey, with layers of nonsoil material covered by loamy soil material. The underlying soil type for the sediment pond is mapped as Goldston very channery silt loam. This soil is well drained to excessively drained, with slopes ranging from 4 to 45 percent (Ref. 18).

### 4.2 Groundwater Targets

The City of Monroe operates a municipal water distribution system that supplies water to approximately 23,697 people. Monroe gets its water from a surface water intake located approximately one and a half miles upstream from the first probable point of entry (PPE) for the site on Lake Twitty (Ref. 19, Fig. 1). Water lines for the City of Monroe extend northeast of the city on Hwy. 200 to Olive Branch Road. Water lines run east along Olive Branch Road until the intersection of Old Camden Road. Water lines then extend north on Old Camden for approximately 1,000 feet until connection with the City of Monroe's water treatment plant (Ref. 20).

The Union County Water System purchases water from the City of Monroe to provide for its 45,720 customers (Ref. 19). Water lines for the County extend out from the lines for the City of Monroe's water system. A county line runs from the intersection of Olive Branch Road and Old Camden Road east until Olive Branch Road intersects with Austin Chaney Road, just south of the site. County water lines are located directly east of the site, running along Austin Chaney Road from

Richardson Creek south to Ansonville Road. To the west of the site, County water lines extend north of the water plant along Old Camden Road until just north of Lawyers Road. County water lines also extend north of Fowlers Crossroads along Hwy. 601 and along Hwy. 200 north of the intersection with Olive Branch Road. Additional water lines extend along SR 1001 and SR 1504 east of Hwy. 601 and smaller roads west and northwest of the site. No other water lines are located directly north or east of the site (Ref. 21).

The Town of Wingate supplies water for 3,056 customers (Ref. 19). Wingate purchases water from the Union County Water System, who in turn, purchases from the City of Monroe. Wingate water lines extend throughout the town limits, with no water line extensions beyond the town limits (Ref. 22).

The nearest private wells are located approximately 500 feet east of the site and 700 feet north of the site on Austin Chaney Road (Fig 1, Fig. 2). Contamination of these wells by the source areas at the site is considered unlikely because of the distance of the wells from the site and the fractured structure of the underlying aquifer system (Ref. 16). There are no community wells located within the 4.0 mile radius of the site (Ref. 19). There are currently no wellhead protection areas within a 4.0 mile radius of the site (Ref. 23).

A well survey was conducted on February 13, 2001 for all houses within one-half mile of the site due to the presence of water lines around the landfill and the lack of customer connections from the homes along these water lines (Ref. 24). Using Fig. 1, a topographic map house count was performed for houses within the remainder of the 4.0 mile radius of the site that do not have municipal water line access. The total number of houses counted was multiplied by 2.82, the 1990 US Census data average for the number of persons per household in Union County (Ref. 25). The total population estimated to use groundwater as their primary source of drinking water within a 4.0 mile radius of the site is 3,419. The distribution of groundwater users is presented in Table 4.

**Table 4**
Groundwater Population Distribution
Union County Municipal Landfill, Monroe, Union County

| Distance (miles) | Total of Houses with Private Wells | Total Private Well Population (a) | Total Groundwater Population |
|---|---|---|---|
| 0 - 0.25 | 36 | 102 | 102 |
| 0.25 - 0.50 | 23 | 65 | 167 |
| 0.50 - 1.0 | 55 | 155 | 322 |
| 1.0 - 2.0 | 338 | 953 | 1,275 |
| 2.0 - 3.0 | 346 | 976 | 2,251 |
| 3.0 - 4.0 | 414 | 1,168 | 3,419 |

(a) Based on the well survey and the topographic map house count, multiplied by 2.82, the 1990 Census average for Union Co. (Ref. 24, Ref. 25).

## 4.3 Groundwater Pathway Sample Locations

Groundwater sampling for the ESI was concentrated on 5 monitoring wells and 3 private wells listed in Table 5 and Fig. 2. All five monitoring wells (UCL-001-MW, UCL-002-MW, UCL-003-MW, UCL-004-MW, and UCL-005-MW) were located on the property of the landfill. Monitoring wells UCL-003-MW, UCL-004-MW, and UCL-005-MW border the old section of the landfill. Monitoring wells UCL-001-MW and UCL-002-MW border the new section of the landfill. One private well (UCL-006-PW) (Photo 2) is located approximately 700 feet north of the northeast tip of the old section of the landfill. A second private well (UCL-008-PW) (Photo 3) sampled is located approximately 500 feet due east of the old section of the landfill. A background sample (UCL-010-PW) for both the monitoring wells and the private wells was collected from a private well located approximately 3,000 feet southeast of the site.

All sampling was conducted by NC Superfund Section staff according to section SOPs and US EPA Region IV, "Environmental Investigations Standard Operating Procedures and Quality Assurance Manual", May 1996. Samples were submitted to CLP labs and analyzed for volatile organics, semi-volatile organics, metals and pesticides (Appendix A).

**Table 5**
Groundwater Sample Descriptions
Union County Municipal Landfill, Monroe, Union County

| Sample ID | Description | Analysis |
|---|---|---|
| UCL-001-MW | On-site monitoring well MW-3; bordering new section of landfill | V, S, I, CN |
| UCL-002-MW | On-site monitoring well MW-6; bordering new section of landfill | V, S, I, CN |
| UCL-003-MW | On-site monitoring well MW-8; bordering old section of landfill | V, S, I, CN |
| UCL-004-MW | On-site monitoring well MW-9; bordering old section of landfill | V, S, I, CN |
| UCL-005-MW | On-site monitoring well MW-10; bordering old section of landfill | V, S, I, CN |
| UCL-006-PW | Private well north of old section of landfill | V, S, I, CN |
| UCL-008-PW | Private well due east of old section of landfill | V, S, I, CN |
| UCL-010-PW | Background well, southeast of landfill on Olive Branch Road | V, S, I, CN |

V = Volatile organics; S = Semi-volatile organics and pesticides/PCBs; I=Inorganics; CN=Cyanide

## 4.4 Groundwater Pathway Analytical Results

Analytical results for groundwater sampling conducted during the February 2001 ESI are included in Appendix A and summarized in Tables 6 and 7. Tables 6 and 7 list analytes measured above detection limits in at least one sample. Contaminants detected at levels significantly above background are shown in bold. Contaminants were considered to be significantly above background if they were detected at levels greater than or equal to three times the background concentration for the contaminant or if they were detected in a well sample but not detected in the background sample (UCL-010-PW).

UCL-001-MW is located on the western side of the new section of the landfill. UCL-002-MW is located on the northeast corner of the new section of the landfill. Based on their relative locations to the new section of the landfill that is currently being regulated under a NC Solid Waste permit, data from monitoring wells UCL-001-MW and UCL-002-MW were not be used for evaluation purposes.

Several inorganics were detected at levels significantly above background (UCL-010-PW) in the on-site monitoring wells. Barium, calcium, manganese, and nickel were detected in UCL-003-MW, UCL-004-MW, and UCL-005-MW at levels significantly higher than background. Cobalt was also detected at significantly higher levels in samples UCL-003-MW (360 ug/l) and UCL-004-MW (2.5 ug/l). In addition to the above, UCL-003-MW also contained cadmium (1.2 ug/l), chromium (3.1 ug/l), magnesium (51,000 ug/l), potassium (1,400J ug/l), sodium (57,000 ug/l), and zinc (21 ug/l) at level significantly above background.

Nickel was detected in both of the private wells (UCL-006-PW and UCL-008-PW) at levels of 1.9 ug/l and 1.6 ug/l, respectively. Both these levels significantly exceeded the background (UCL-010-PW) level for nickel of non-detect. UCL-008-PW also contained iron (880 ug/l) and manganese (100 ug/l) at levels significantly higher than background.

Cis-1,2-dichloroethane, chlorobenzene, and 1,4-dichlorobenzene were detected in UCL-003-MW and UCL-004-MW at levels significantly higher than background (UCL-010-PW). 1,1-Dichloroethane (5 ug/l) was also detected in UCL-003-MW at a level significantly higher than the background (UCL-010-PW) level of non-detect.

Manganese (19,000 ug/l) was detected in sample UCL-003-MW at a concentration which exceeded the EPA Health Benchmark of 5,100 ug/l. No other levels of contaminants detected in the groundwater samples associated with the site exceeded the EPA Health Based Benchmarks (Ref. 9) and the NC Groundwater Remediation Goals (Ref. 15). There were no organic compounds detected in any of the private wells, including the background well (UCL-010-PW).

## Table 6
Groundwater Sample Inorganic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmark | NC Remediation Goal | UCL-003-MW | UCL-004-MW | UCL-005-MW | UCL-006-PW | UCL-008-PW | UCL-010-PW (Background) |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/l | N/A | N/A | U | U | U | U | U | U |
| Barium | ug/l | 2,000 | 2,000 | **88** | **3.9** | **9.1** | U | 0.76 | 0.34 |
| Cadmium | ug/l | 5 | 5 | **1.2** | U | U | U | U | U |
| Calcium | ug/l | N/A | N/A | **150,000** | **110,000** | **99,000** | 17,000 | 18,000 | 11,000 |
| Chromium | ug/l | 100 | 50 | **3.1** | U | U | U | U | U |
| Cobalt | ug/l | N/A | N/A | **360** | **2.5** | U | U | U | U |
| Copper | ug/l | 1,300 | 1,000 | U | U | U | 23 | 0.98 | 12 |
| Iron | ug/l | N/A | N/A | U | U | **1,500** | U | **880** | U |
| Magnesium | ug/l | N/A | N/A | **51,000** | 15,000 | 10,000 | 9,700 | 3,000 | 5,700 |
| Manganese | ug/l | 5,100 | N/A | **19,000** | **480** | **1,400** | U | **100** | U |
| Nickel | ug/l | 730 | 100 | **41** | **13** | **2.5** | **1.9** | **1.6** | U |
| Potassium | ug/l | N/A | N/A | **1,400J** | 1,000J | 620J | 420J | U | 360J |
| Sodium | ug/l | N/A | N/A | **57,000** | 28,000 | 18,000 | 16,000 | 9,600 | 12,000 |
| Zinc | ug/l | 11,000 | 2,100 | **21** | 17 | U | 14 | U | 6.6 |

Values in **bold** indicate concentrations greater than three times background.
Values **shaded** indicated concentrations greater than the EPA Health Based Benchmark.
N/A=not applicable
J=estimated value
U=analyzed for but not detected
1-Ref. 9; 2-Ref. 15

## Table 7
Groundwater Sample Organic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | NC Remediation Goals | UCL-003-MW | UCL-004-MW | UCL-005-MW | UCL-006-PW | UCL-008-PW | UCL-010-PW (Background) |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ug/l | 3,700 | 700 | **5** | U | U | U | U | U |
| Cis-1,2-Dichloroethane | ug/l | 70 | 70 | **2** | **1** | U | U | U | U |
| Chlorobenzene | ug/l | 100 | 50 | **7** | **1** | U | U | U | U |
| 1,4-Dichlorobenzene | ug/l | 3.6 | 75 | **3** | **1** | U | U | U | U |

Values in **bold** indicate concentrations greater than three times background.
U=analyzed for but not detected
1-Ref. 9; 2-Ref. 15

## 4.5 Groundwater Pathway Conclusions

Groundwater sampling for the ESI was concentrated on 5 monitoring wells and 3 private wells. Several inorganics were detected at levels significantly above background in the on-site monitoring wells, including barium, cadmium, calcium, chromium, cobalt, magnesium, manganese, nickel, potassium, sodium, and zinc, with manganese exceeding the EPA Health Based Benchmark in UCL-003-MW. Of these contaminants, nickel and manganese were detected in two private wells at levels significantly above background. Organic compounds detected at levels significantly higher than background in the on-site monitoring wells include cis-1,2-dichloroethane, chlorobenzene, 1,4-dichlorobenzene, and 1,1-dichloroethane. There were no organic compounds detected in any of the private wells, including the background well (UCL-010-PW). No other levels of contaminants detected in the groundwater samples associated with the site exceeded the EPA Health Based Benchmarks and the NC Groundwater Remediation Goals.

Based on the lack of contaminants in the private well samples and the lack of groundwater targets, the likelihood of adverse human health or environmental impact via the groundwater pathway is considered to be minimal.

# 5.0 SURFACE WATER PATHWAY

## 5.1 Hydrologic Setting

All source areas are located outside the 100 year floodplain (Ref. 26). The 2-year, 24-hour rainfall near the site averages 3.5 inches (Ref. 2). The landfill slopes upward from west to east, filling the waste into the natural terrain. The top of the landfill is fairly flat, with steep sloping sides to the west and north of the entire landfill (Photos 4, 5).

Runoff from the old section of the landfill flows north towards Richardson Creek. Runoff from the western portion of the old section of the landfill flows into the existing sediment pond located at the intersection of the old and new sections of the landfill. Runoff collects in the pond, then flows through a drainage ditch network that leads to Richardson Creek approximately 150 feet away (Photos 1, 6). Runoff from the eastern portion of the old section of landfill follows the natural terrain towards Richardson Creek (Photo 7). An unnamed tributary flows through the old section of the landfill and surfaces on the north side, flowing approximately 150 feet before entering Richardson Creek (Photo 8). The estimated flow rate of Richardson Creek is 112.8 cubic feet per second (cfs) (Ref. 27).

## 5.2 Surface Water Targets

There are no surface water intakes located downstream from the site within the 15.0 mile surface water pathway target distance limit (Fig. 1, Ref. 28). During the January 2001 reconnaissance, soil probing was conducted in order to determine the presence of hydric soils near and downstream of the landfill to identify potential wetlands. Soil probing revealed that no hydric soils were present on site nor were they present approximately one mile downstream of the site along Richardson Creek (Ref. 13). Based on the results of the soil probing and the National Wetlands

Inventory maps, there is less than one-tenth of a mile of wetland frontage within the first five miles of the 15-mile surface water pathway (Ref. 29); therefore, wetland sampling was not conducted during the ESI (Ref. 14).

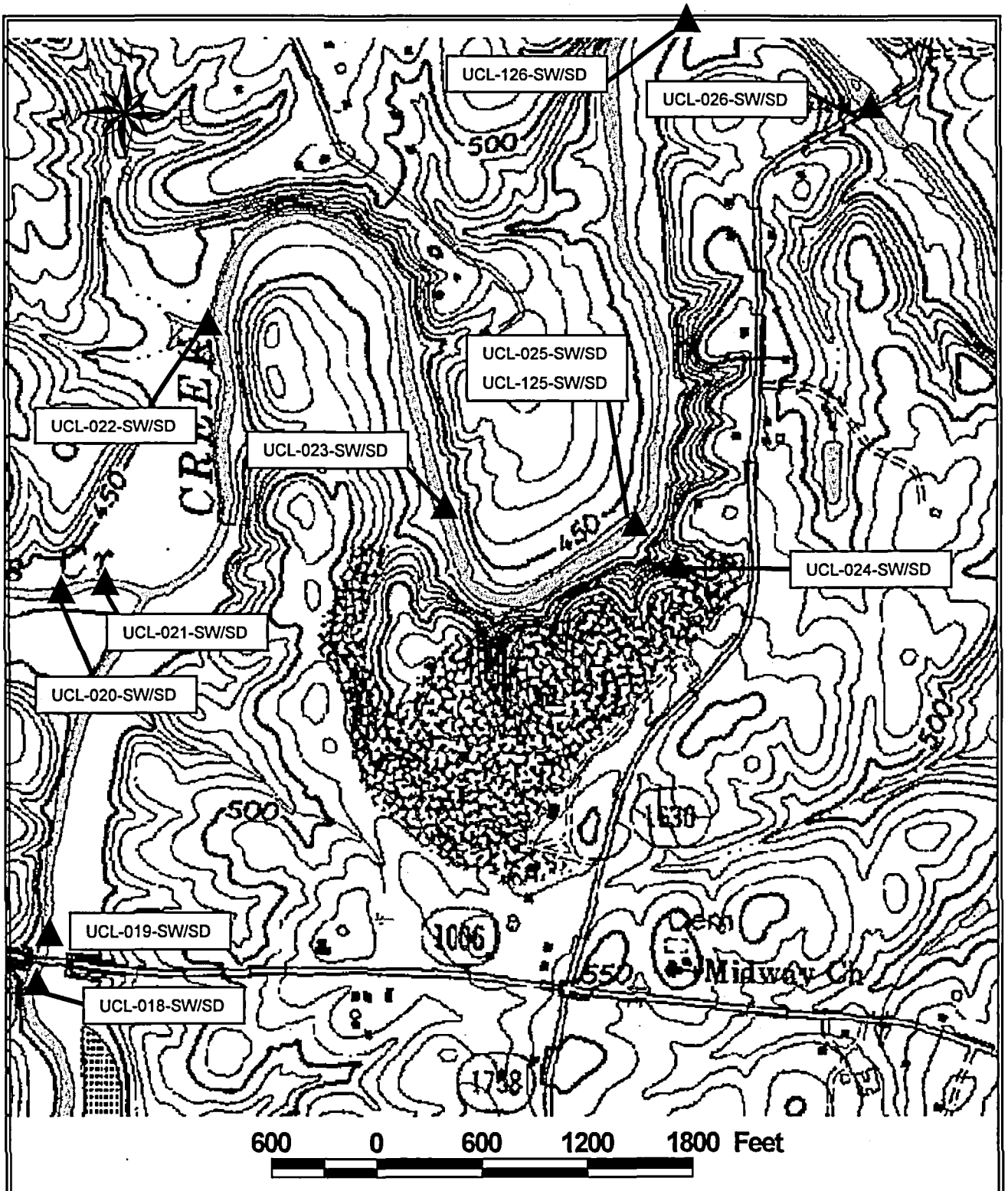
According to the NC Wildlife Resources Commission, Richardson Creek receives moderate fishing pressure, including the area around the landfill (Ref. 30). During the February 2001 ESI sampling event, a fishing lure and line were noticed near Richardson Creek at sample location UCL-026-SW/SD (Ref. 31). In addition, a camp area that included a fishing ramp and a tire swing was located beside sample location UCL-126-SW/SD (Ref. 31, Photo 9).

A NC Candidate for Endangered or Threatened plant species, the Piedmont Aster, was identified approximately 7.6 miles downstream of the second probable point of entry (PPE) along the surface water pathway. No additional endangered or threatened species, special concern species, or sensitive environments were identified along the 15-mile surface water pathway (Ref. 32).

### 5.3 Surface Water Pathway Sample Locations

During the February 26-27, 2001 ESI sampling trip, the NC Superfund Section collected eleven sets of surface water and sediment samples from Richardson Creek, Stewarts Creek, and the unnamed tributary surfacing from the landfill. The sample locations are presented in Table 8 and shown on Fig. 4.

All sampling was conducted by NC Superfund Section staff according to section SOPs and US EPA Region IV, "Environmental Investigations Standard Operating Procedures and Quality Assurance Manual", May 1996. Samples were submitted to CLP labs and analyzed for volatile organics, semi-volatile organics, metals and pesticides (Appendix A).




| | | |
|---|---|---|
| NCDENR | Site: Union Co Ldfl | Figure 3 |
| | US EPA ID #: NCD980503163 | Date: 6/1/01 |
| | Monroe, Union County | Drawn By: MDB |
| | Approximate Scale: See Above | SW, SD Samples |

**Table 8**
Surface Water and Sediment Sample Locations and Descriptions
Union County Municipal Landfill, Monroe, Union County

| Sample ID | Description | Comments | Matrix | Analysis |
|---|---|---|---|---|
| UCL-018-SD<br>UCL-018-SW | Richardson Creek near overpass for Olive Branch Road | Background for Richardson Creek | Sediment<br>Aqueous | V, S, I, CN |
| UCL-019-SD<br>UCL-019-SW | Richardson Creek near overpass for Olive Branch Road | Background for Richardson Creek | Sediment<br>Aqueous | V, S, I, CN |
| UCL-020-SD<br>UCL-020-SW | Stewarts Creek downstream of dam near Old Camden Road | Background for Stewarts Creek | Sediment<br>Aqueous | V, S, I, CN |
| UCL-021-SD<br>UCL-021-SW | Stewarts Creek downstream of dam near Old Camden Road | Background for Stewarts Creek | Sediment<br>Aqueous | V, S, I, CN |
| UCL-022-SD<br>UCL-022-SW | Unnamed Tributary into Richardson Creek | Attribution from off-site sources | Sediment<br>Aqueous | V, S, I, CN |
| UCL-023-SD<br>UCL-023-SW | Richardson Creek at drainage from sediment pond | PPE; Establish release to fishery | Sediment<br>Aqueous | V, S, I, CN |
| UCL-024-SD<br>UCL-024-SW | Unnamed tributary surfacing from landfill | PPE; Establish release to surface water | Sediment<br>Aqueous | V, S, I, CN |
| UCL-025-SD<br>UCL-025-SW | Richardson Creek at drainage from unnamed tributary | Establish release to fishery | Sediment<br>Aqueous | V, S, I, CN |
| UCL-125-SD<br>UCL-125-SW | Richardson Creek at drainage from unnamed tributary | Establish release to fishery | Sediment<br>Aqueous | V, S, I, CN |
| UCL-026-SD<br>UCL-026-SW | Richardson Creek at Austin Chaney Road bridge | Establish release to fishery | Sediment<br>Aqueous | V, S, I, CN |
| UCL-126-SD<br>UCL-126-SW | Mill Creek upstream of connection to Richardson Creek | Attribution from off-site sources | Sediment<br>Aqueous | V, S, I, CN |

V = Volatile organics; S = Semi-volatile organics and pesticides/PCBs; I=Inorganics; CN=Cyanide

## 5.4 Surface Water Pathway Analytical Results

### *5.4.1 Surface Water Samples*

Surface water analytical results can be found in Appendix A and are summarized in Tables 9 and 10. The old section of the landfill had two probable points of entry (PPEs): the introduction of the drainage ditch from the sediment pond into Richardson Creek (UCL-023-SW) (Photo 6) and the head of unnamed tributary surfacing from the landfill (UCL-024-SW) (Photos 7, 10). The PPE downgradient of the sediment pond (UCL-023-SW) contained aluminum (4,900 ug/l), barium (61 ug/l), chromium (9.4 ug/l), cobalt (6.2 ug/l), iron (10,000 ug/l), lead (7.2ug/l), nickel (12 ug/l), vanadium (11 ug/l), and zinc (67 ug/l) at levels significantly higher than background. Iron and lead

also exceeded their EPA Health Benchmarks (Ref. 9). In addition, copper (17 ug/l), though the concentration detected in UCL-023-SW did not significantly exceed background, did exceed the EPA Health Based Benchmark of 12 ug/l (Ref. 9).

The second PPE (UCL-024-SW) contained barium (88 ug/l), cobalt (2.1 ug/l), and nickel (12 ug/l) at levels significantly higher than those detected in the background samples. None of these levels exceeded their EPA Health Based Benchmarks (Ref. 9)

Duplicate samples (UCL-025-SW and UCL-125-SW) collected from the fishery in Richardson Creek downgradient of the second PPE (UCL-024-SW) contained cobalt at 3 ug/l and 2.5 ug/l, respectively. Both these concentrations exceeded the background concentrations of non-detect. Both samples also contained iron (2,200 ug/l and estimated at 1,600 J ug/l, respectively) at levels which exceeded the EPA Health Based Benchmark of 1,000 (Ref. 9).

Chloroform was detected in all four of the background samples (UCL-018-SW, UCL-019-SW, UCL-020-SW, and UCL-021-SW) collected. No additional organic compounds, including semi-volatiles, volatiles, and pesticides/PCBs, were detected in any of the surface water samples.

**Table 9**
Surface Water Sample Inorganic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | UCL-018-SW (Bkgd) | UCL-019-SW (Bkgd) | UCL-020-SW (Bkgd) | UCL-021-SW (Bkgd) | UCL-022-SW | UCL-023-SW | UCL-024-SW | UCL-025-SW | UCL-125-SW | UCL-026-SW | UCL-126-SW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/l | N/A | U | U | 240 | 180 | 530 | **4,900** | U | 160 | U | U | U |
| Antimony | ug/l | 15 | U | 4.0 | U | U | U | 3.7 | U | U | 2.7 | U | U |
| Barium | ug/l | 2,000 | 14 | 14 | 16 | 15 | 35 | **61** | **88** | 33 | 27 | 15 | 23 |
| Calcium | ug/l | N/A | 14,000 | 14,000 | 15,000 | 15,000 | 4,400 | 16,000 | 33,000 | 27,000 | 24,000 | 15,000 | 11,000 |
| Chromium | ug/l | 11 | 0.6 | U | U | U | 0.9 | **9.4** | U | U | U | U | U |
| Cobalt | ug/l | N/A | U | U | U | U | U | **6.2** | **2.1** | **3** | **2.5** | U | 0.76 |
| Copper | ug/l | 12 | 6.6 | 6.8 | 3 | 3.2 | 1.8 | **17** | 3.7 | 4.8 | U | 6.4 | U |
| Iron | ug/l | 1,000 | 520 | 590 | 710 | 680 | 890 | **10,000** | U | **2,200** | **1,600J** | 500 | 580J |
| Lead | ug/l | 3.2 | U | U | U | U | U | **7.2** | U | U | U | U | U |
| Magnesium | ug/l | N/A | 12,000 | 12,000 | 4,900 | 4,800 | 3,200 | 14,000 | 25,000 | 13,000 | 12,000 | 11,000 | 6,200 |
| Manganese | ug/l | 5,100 | 36 | 57 | 700 | 630 | 25 | 680 | 450 | 840 | 680 | 50 | 62 |
| Nickel | ug/l | 160 | 2.9 | 3 | 1.6 | U | 1.7 | **12** | **12** | 4.2 | 3.2 | 2.8 | 1.5 |
| Potassium | ug/l | N/A | 8,000J | 8,300J | 3,900J | 3,900J | 2,100J | 8,900J | 20,000J | 8,200J | 7,900J | 8,700J | 3,800J |
| Sodium | ug/l | N/A | 26,000 | 27,000 | 14,000 | 14,000 | 7,300 | 30,000 | 78,000 | 31,000 | 30,000 | 29,000 | 14,000 |
| Vanadium | ug/l | 260 | 1.7 | 1.3 | U | U | U | **11** | U | 1 | U | 1.2 | 1.5 |
| Zinc | ug/l | 110 | 14 | 15 | 3.3 | 2 | U | **67** | 13 | 15 | 12 | 19 | 8.2 |

Values in **bold** indicate concentrations greater than three times background.
Values **shaded** exceed EPA Health Based Benchmarks.
N/A=not applicable
J=estimated value; U=analyzed for but not detected
1-Ref. 9

**Table 10**
Surface Water Sample Organic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | UCL-018-SW (Bkgd) | UCL-019-SW (Bkgd) | UCL-020-SW (Bkgd) | UCL-021-SW (Bkgd) | UCL-022-SW | UCL-023-SW | UCL-024-SW | UCL-025-SW | UCL-125-SW | UCL-026-SW | UCL-126-SW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloroform | ug/l | 14 | 1 | 1 | 2 | 2 | U | U | U | U | U | U | U |

U=analyzed for but not detected
1-Ref. 9

### *5.4.2 Sediment Samples*

Sediment sample analytical results are included in Appendix A and are summarized in Tables 11 and 12. Only one inorganic analyte, selenium, was detected in the second PPE sample (UCL-024-SD) at a level significantly higher than background. Only one organic compound, 4-methylphenol, was detected in the first PPE sample (UCL-023-SD) at a level significantly higher than background. No other inorganic analytes or organic compounds were detected in any of the sediment samples at a level significantly higher than the background concentrations.

**Table 11**
Sediment Sample Inorganic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | UCL-018-SD | UCL-019-SD | UCL-020-SD | UCL-021-SD | UCL-022-SD | UCL-023-SD | UCL-024-SD | UCL-025-SD | UCL-125-SD | UCL-026-SD | UCL-126-SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/kg | 7,800 | 11,000 | 15,000 | 14,000 | 9,400 | 9,200 | 10,000 | 5,400 | 6,700 | 12,000 | 8,300 |
| Antimony | mg/kg | U | 1.2J | U | U | U | U | 1.6J | 1.1J | U | U | 0.86J |
| Barium | mg/kg | 50 | 68 | 68 | 63 | 93 | 87 | 49 | 38 | 48 | 140 | 64 |
| Calcium | mg/kg | 1,200 | 870 | 820 | 750 | 850 | 800 | 1,500 | 790 | 830 | 3,100 | 570 |
| Chromium | mg/kg | 31 | 43 | 18 | 17 | 24 | 18 | 37 | 27 | 29 | 27 | 16 |
| Cobalt | mg/kg | 9 | 9.8 | 7.2 | 6.6 | 7.8 | 8.9 | 19 | 16 | 12 | 13 | 5.8 |
| Copper | mg/kg | 14 | 26 | 40 | 34 | 11 | 18 | 25 | 16 | 21 | 33 | 12 |
| Iron | mg/kg | 23,000J | 36,000J | 23,000J | 21,000J | 28,000J | 20,000J | 61,000J | 31,000J | 37,000J | 29,000J | 17,000J |
| Lead | mg/kg | 15 | 25 | 13 | 12 | 16 | 16 | 19 | 13 | 15 | 22 | 11 |
| Magnesium | mg/kg | 1,700 | 3,000 | 1,700 | 1,600 | 1,100 | 1,600 | 3,200 | 1,500 | 1,400 | 3,000 | 1,100 |
| Manganese | mg/kg | 630 | 390 | 950 | 780 | 370 | 830 | 1,000 | 380 | 430 | 2,400 | 370 |
| Nickel | mg/kg | 16 | 21 | 9.4 | 8.3 | 9.8 | 12 | 19 | 17 | 29 | 24 | 6.3 |
| Potassium | mg/kg | 180 | 250 | 360 | 320 | 410 | 430 | 98 | 130 | 140 | 780 | 370 |
| Selenium | mg/kg | U | U | U | U | U | U | **2.6J** | U | U | U | U |
| Vanadium | mg/kg | 24 | 34 | 26 | 24 | 33 | 25 | 45 | 30 | 29 | 33 | 23 |
| Zinc | mg/kg | 68 | 85 | 120 | 110 | 25 | 46 | 110 | 60 | 64 | 140 | 23 |

Values in **bold** indicate concentrations greater than three times background.
J=estimated value
U=analyzed for but not detected

**Table 12**
Sediment Sample Organic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | UCL-018-SD | UCL-019-SD | UCL-020-SD | UCL-021-SD | UCL-022-SD | UCL-023-SD | UCL-024-SD | UCL-025-SD | UCL-125-SD | UCL-026-SD | UCL-126-SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | ug/kg | U | 9.8 | U | U | U | U | U | U | U | U | U |
| PCB-1254 | ug/kg | 65 | 240 | U | U | U | U | U | U | U | U | U |
| PCB-1260 | ug/kg | U | 130 | U | U | U | U | U | U | U | U | U |
| Acetone | ug/kg | U | U | 73 | U | U | U | U | 19 | U | U | 16 |
| 2-Pentanone,4-Hydroxy-4-Met | ug/kg | 26,000J | 24,000J | 42,000J | 48,000J | 25,000J | 32,000J | 18,000J | 22,000J | 23,000J | 76,000J | 25,000J |
| 4-Methylphenol | ug/kg | U | U | U | U | U | **1,100** | U | U | U | U | U |

Values in **bold** indicate concentrations greater than three times background.
J=estimated value
U=analyzed for but not detected

## 5.5 Surface Water Pathway Conclusions

No surface water intakes are located downstream from the site within the 15.0 mile surface water pathway target distance limit. There is less than one-tenth of a mile of wetland frontage within the first five miles of the 15-mile surface water pathway. Richardson Creek does receive, however, moderate fishing pressure, including along the area around the landfill.

Analysis of surface water samples indicated levels of some inorganics in the fishery to be significantly higher than background. Iron, lead, and copper exceeded their EPA Health Benchmarks at the first PPE. Iron also exceeded the EPA Health Based Benchmark at the the second PPE and the fishery just downstream stream of the second PPE. No additional inorganics exceeded their EPA Health Based Benchmarks. 4-Methylphenol was the only organic compound to be detected in the fishery significantly higher than background.

Based on the low levels of detected contaminants in the surface water samples, lack of detected contaminants in the sediments, and the lack of environmental and drinking water targets, the likelihood of adverse human health or environmental impact via the surface water pathway is considered to be minimal.

# 6.0 SOIL EXPOSURE AND AIR PATHWAYS

## 6.1 Physical Conditions

The municipal solid waste landfill is currently inactive (Ref. 33), though a construction and demolition landfill facility is currently active on the top of the Union County Municipal Landfill property (Ref. 34). The property is surrounded to the south and the east by a fence and to the west and the north by Richardson Creek. A thick line of trees separates the landfill cells from the creek. Grass and a two-foot cover exist over the landfill cap (Ref. 31). A small unnamed stream runs

through the old section of the landfill and exits the landfill approximately 150 feet south of Richardson Creek (Photos 7, 10). A sediment pond is located at the northwest corner of the old section of the landfill. Runoff from the sediment pond flows through a pipe into a ditch that empties into Richardson Creek approximately 150 feet from the outfall of the pond (Photos 1, 6).

## 6.2 Soil and Air Targets

Workers were viewed on the property during both the on-site reconnaissance and the ESI sampling event (Ref. 13, Ref. 31). There are no residences, day care centers, or schools located on site or within 200 feet of the source areas. The nearest residence is located approximately 500 feet to the east of the site on Austin Chaney Road (Fig. 1). Based on statistics provided by the North Carolina Center for Geographic Information and Analysis, a total of 8,213 people live within a 4.0 mile radius of the site (Ref. 35). The population distribution within the 4.0 mile radius is summarized in Table 13.

**Table 13**
Residential Population Within a 4.0 Mile Radius
Union County Municipal Landfill, Monroe, Union County

| Distance Radius | Total Population |
|---|---|
| 0 - 1/4 mile | 13 |
| 1/4 - ½ mile | 41 |
| ½ - 1 mile | 171 |
| 1 - 2 mile | 960 |
| 2 - 3 mile | 2,698 |
| 3 - 4 mile | 8,213 |

The NC Natural Heritage Program has identified no endangered or threatened plant or animal species located on site or within 200 feet of any of the source areas (Ref. 32). The nearest wetland is located more than one mile downstream of the site on Richardson Creek (Ref. 29).

## 6.3 Soil Sample Locations

During the February 26-27, 2001 ESI, personnel from the NC Superfund Section collected soil samples from two areas of potential soil contamination on site, two areas of overland flow attribution into Richardson Creek, and four background samples. These sample locations are listed in Table 14 and shown on Fig. 2. Soil samples UCL-013-SS through UCL-015-SB were collected on site to document an observed release to the soil exposure pathway and characterize the source areas as well. Please refer to Table 14 and Fig. 2 for discussion on the soil sample locations. Background samples UCL-016-SS, UCL-016-SB, UCL-017-SS, and UCL-017-SB were collected

approximately one mile southeast of the site in an area of similar soil and cover not believed to be impacted by the Union County Municipal Landfill (Fig. 2).

All sampling was conducted by NC Superfund Section staff according to section SOPs and US EPA Region IV, "Environmental Investigations Standard Operating Procedures and Quality Assurance Manual", May 1996 . Samples were submitted to CLP labs and analyzed for volatile organics, semi-volatile organics, metals and pesticides (Appendix A).

**Table 14**
Soil Sample Locations and Descriptions
Union County Municipal Landfill, Monroe, Union County

| Sample ID | Description | Comments | Matrix | Analysis |
|---|---|---|---|---|
| UCL-011-SS | Surface soil sample from drainage pathway of old sediment pond near NW corner of new section | Overland flow sample for attribution. | Soil | V,S,I,CN |
| UCL-012-SS | Surface soil sample from runoff ditch from field bordering landfill. | Overland flow sample for attribution. | Soil | V,S,I,CN |
| UCL-013-SS | Surface soil sample from discharge location from current sediment pond near northern intersection of new and old sections of landfill | Potential source sample. | Soil | V,S,I,CN |
| UCL-015-SB | Subsurface soil sample from within the old section of landfill below the cap. | Potential source sample. | Soil | V,S,I,CN |
| UCL-016-SS | Surface soil sample upgradient of landfill. | Background sample. | Soil | V,S,I,CN |
| UCL-016-SB | Subsurface soil sample upgradient of landfill. | Background sample. | Soil | V,S,I,CN |
| UCL-017-SS | Surface soil sample upgradient of landfill. | Background sample. | Soil | V,S,I,CN |
| UCL-017-SB | Subsurface soil sample upgradient of landfill. | Background sample. | Soil | V,S,I,CN |

V = Volatile organics; S = Semi-volatile organics and pesticides/PCBs; I=Inorganics; CN=Cyanide

## 6.4 Soil Analytical Results

Analytical results for source sampling conducted during the November 2000 SI are included in Appendix A and summarized in Tables 15 and 16. Tables 15 and 16 list all analytes measured above detection limits in at least one sample. Contaminants detected at levels significantly above background are shown in bold. Contaminants were considered to be significantly above background if they were detected at levels greater than or equal to three times the higher background

concentration for that contaminant or if they were detected in the source sample but not detected in the background. Levels exceeding EPA health-based soil benchmarks for residential exposures are identified by shading in Tables 15 and 16. Two background surface soil samples (UCL-016-SS and UCL-017-SS) and two background subsurface soil samples (UCL-016-SB and UCL-017-SB) were collected to account for spatial variation in concentration of naturally occurring compounds.

The surface soil area sampled at the discharge location of the current sediment pond near the northern intersection of the new and old sections of landfill (UCL-013-SS) contained antimony (1.1J mg/kg), cobalt (18 mg/kg), magnesium (5,300 mg/kg), and nickel (25 mg/kg) at levels significantly above background. None of these levels exceeded the EPA Health Based Benchmarks nor the NC Soil Remediation Goals (Ref. 9, 15). There were no additional inorganic analytes or organic compounds detected at levels significantly higher than background in any of the soil samples. However, vanadium exceeded the NC Soil Remediation Goal (1.1 mg/kg) in all of the samples collected, including the background sample.

**Table 15**
Soil Sample Inorganic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | NC Remediation Goals | UCL-011-SS | UCL-012-SS | UCL-013-SS | UCL-016-SS (Bkgd) | UCL-017-SS (Bkgd) | UCL-015-SB | UCL-016-SB (Bkgd) | UCL-017-SB (Bkgd) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/kg | N/A | N/A | 11,000 | 10,000 | 17,000 | 10,000 | 11,000 | 14,000 | 7,800 | 11,000 |
| Antimony | mg/kg | 31 | 6.2 | U | U | **1.1J** | U | U | U | 1.2J | 0.76J |
| Barium | mg/kg | 5,500 | N/A | 88 | 140 | 43 | 91 | 94 | 37 | 19 | 25 |
| Calcium | mg/kg | N/A | N/A | 880 | 2,000 | 720 | 1,300 | 1,900 | 340 | 500 | 380 |
| Chromium | mg/kg | 390 | 46* | 27 | 14 | 30 | 34 | 42 | 26 | 37 | 25 |
| Cobalt | mg/kg | N/A | N/A | 17 | 12 | **18** | 5.9 | 5.8 | 19 | 1.8 | 28 |
| Copper | mg/kg | N/A | 620 | 20 | 17 | 36 | 22 | 25 | 32 | 26 | 42 |
| Iron | mg/kg | N/A | N/A | 28,000J | 16,000J | 36,000J | 36,000J | 37,000J | 30,000J | 43,000J | 35,000J |
| Lead | mg/kg | N/A | 400 | 20 | 15 | 9.7 | 36 | 36 | 11 | 13 | 21 |
| Magnesium | mg/kg | N/A | N/A | 2,100 | 2,100 | **5,300** | 1,100 | 1,200 | 4,700 | 990 | 2,300 |
| Manganese | mg/kg | 11,000 | N/A | 1,200 | 840 | 510 | 440 | 420 | 510 | 86 | 540 |
| Total Mercury | mg/kg | 23 | 4.6 | U | 0.17 | U | 0.21 | 0.18 | U | U | U |
| Nickel | mg/kg | 1,600 | 320 | 12 | 15 | **25** | 7.6 | 8 | 22 | 5.2 | 19 |
| Potassium | mg/kg | N/A | N/A | 370 | 430 | 440 | 570 | 500 | 190 | 61 | 80 |
| Selenium | mg/kg | 390 | 78 | U | U | U | 1.7J | U | U | 1.7J | U |
| Vanadium | mg/kg | 550 | 1.1 | *27* | *18* | *35* | *43* | *46* | *31* | *43* | *32* |
| Zinc | mg/kg | 23,000 | 4,600 | 39 | 46 | 110 | 180 | 240 | 60 | 21J | 46 |

Values in **bold** indicate concentrations greater than three times background.
*Form of chromium unknown; used most restrictive remediation goal
Values **italicized** indicate concentrations greater than the NC Soil Remediation Goal.
J=estimated value
U=analyzed for but not detected
1-Ref. 9; 2-Ref. 15

**Table 16**
Soil Sample Organic Analytical Results
Union County Municipal Landfill, Monroe, Union County

| Contaminant | Units | EPA Benchmarks | NC Remediation Goals | UCL-011-SS | UCL-012-SS | UCL-013-SS | UCL-016-SS (Bkgd) | UCL-017-SS (Bkgd) | UCL-015-SB | UCL-016-SB (Bkgd) | UCL-017-SB (Bkgd) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | ug/kg | 1,900 | 1,900 | U | U | U | U | 14 | U | U | U |
| 4,4'-DDT | ug/kg | 1,900 | 1,900 | U | U | U | U | 9.5 | U | U | U |
| Benzaldehyde | ug/kg | N/A | N/A | U | 460J | U | U | U | U | U | U |
| Bis(2-ethylhexyl) phthalate | ug/kg | 46,000 | 46,000 | U | U | U | U | U | U | 760 | U |
| 2-Pentanone,4-Hydroxy-4-Met | ug/kg | N/A | N/A | 20,000J | 21,000J | 20,000J | 23,000J | 18,000J | 19,000J | 15,000J | 17,000J |
| (R)-(-)-2,3-Dimethyl-1,3-Dio | ug/kg | N/A | N/A | 9,800J | U | U | U | U | U | U | U |

J=estimated value
N/A=not applicable
U=analyzed for but not detected
1-Ref. 9; 2-Ref. 15

## 6.5 Air Monitoring

No formal air monitoring has been conducted at the site. However, a photoionization detector (PID) similar to an HNU was carried into the field to monitor air quality while groundwater samples were collected from the monitoring wells and subsurface samples were collected from the landfill during the ESI. No measurements greater than 1.5 units above background were indicated at any of the monitoring wells and no measurements greater than background for the subsurface soil sample collected from within the landfill were indicated with the PID (Ref. 31).

## 6.6 Soil and Air Pathway Conclusions

Workers were viewed on the property during both the on-site reconnaissance and the ESI sampling event. There are no residences, day care centers, or schools located on site or within 200 feet of the source areas. The nearest residence is located approximately 500 feet to the east of the site on Austin Chaney Road.

The NC Natural Heritage Program has identified no endangered or threatened plant or animal species located on site or within 200 feet of any of the source areas. The nearest wetland is located more than one mile downstream of the site on Richardson Creek.

Analysis of surface soil and subsurface soil samples indicated elevated levels of some inorganics present in only one sample: the discharge location of the current sediment pond near the northern intersection of the new and old sections of landfill (UCL-013-SS). None of these levels exceeded the EPA Health Based Benchmarks for the soil exposure pathway. There were no organic compounds detected at levels significantly higher than background in any of the other soil samples.

No measurements with a PID greater than 1.5 units above background were indicated at any of the monitoring wells and no measurements greater than background for the subsurface soil sample collected from within the landfill were indicated with the PID.

Based on the low levels of detected contaminants in the surface and subsurface soil samples and the lack of targets, the likelihood of adverse human health or environmental impact via the soil exposure or air pathways is considered to be minimal.

## 7.0 SUMMARY AND CONCLUSIONS

The landfill occupies 151 acres comprised of two contiguous tracts of land: an old tract (66 acres) which was utilized from 1972 to 1979, and a newer expansion (85 acres) which was opened in 1980. The newer section of the landfill was permitted and regulated by and is currently regulated and monitored by the NC Solid Waste Section. The old section of the landfill received three principle types of wastes: solid municipal trash and debris, sludge from the municipal wastewater treatment plant, and various pesticides that were banned from sale in North Carolina. In 1977, the landfill received approximately 800 pounds of several pesticide formulations, including DDT, endosulfan, ethylmercury p-toluene sulfonamide (EMTS), and warfarin. By 1980, the landfill began receiving municipal wastewater sludge, following approval by the North Carolina Solid & Hazardous Waste Management Branch, with receipt of 5400 cubic feet of sludge from the City of Monroe.

During a routine inspection on August 25, 1975, Mr. Richard Doby, District Sanitarian, noted in a letter to Mr. Bill Summerlin, Public Works Director for Union County, that he had observed two (2) small streams of leachate flowing from the bottom of the landfill on the west side.

On August 7, 1984, the Region IV Field Investigation Team (FIT) of the NUS Corporation conducted a Site Screening Investigation (SSI) of the Union County Municipal Landfill. The September 24, 1986 FIT report from the SSI included sampling results that detected the presence of metals and pesticides.

Based on the results of the SSI conducted by NUS Corporation, further action was recommended by NUS for the Union County Municipal Landfill. A July 25, 1994 Site Inspection Prioritization (SIP) based on the SSI was conducted by Black & Veatch Waste Science, Inc. Black and Veatch also concluded in the SIP that further action was recommended for the Union County Municipal Landfill.

In 2000, the NC Superfund Section conducted a Site Re-Assessment (SRA) of the Union County Municipal Landfill. The SRA included a review of all previous file data, including the SSI and the SIP. In the June 5, 2000 SRA report, the NC Superfund Section concluded that further action was recommended for the Union County Municipal Landfill based on the previously observed release of site contaminants to Richardson Creek and the potential environmental impacts to both the surface water and groundwater pathways. The site was recommended for an Expanded Site Investigation (ESI).

During the ESI, only one of the source areas sampled was found to contain contaminants at levels significantly above background: the discharge location from the current sediment pond near the northern intersection of the new and old sections of the landfill (UCL-013-SS). The inorganic analysis for sample UCL-013-SS contained elevated levels of antimony (1.1J mg/kg), cobalt (18 mg/kg), magnesium (5,300 mg/kg), and nickel (25 mg/kg), though none of these levels exceeded EPA Soil Benchmarks or the NC Soil Remediation Goals.

Groundwater sampling for the ESI was concentrated on 5 monitoring wells and 3 private wells. Several inorganics were detected at levels significantly above background in the on-site monitoring wells, including barium, cadmium, calcium, chromium, cobalt, magnesium, manganese, nickel, potassium, sodium, and zinc, with manganese exceeding the EPA Health Based Benchmark in UCL-003-MW. Of these contaminants, nickel and manganese were detected in two private wells at levels significantly above background. Organic compounds detected at levels significantly higher than background in the on-site monitoring wells include cis-1,2-dichloroethane, chlorobenzene, 1,4-dichlorobenzene, and 1,1-dichloroethane. There were no organic compounds detected in any of the private wells, including the background well (UCL-010-PW). No other levels of contaminants detected in the groundwater samples associated with the site exceeded the EPA Health Based Benchmarks and the NC Groundwater Remediation Goals.

No surface water intakes are located downstream from the site within the 15.0 mile surface water pathway target distance limit. There is less than one-tenth of a mile of wetland frontage within the first five miles of the 15-mile surface water pathway. Richardson Creek does receive, however, moderate fishing pressure, including along the area around the landfill.

Analysis of surface water samples indicated levels of some inorganics in the fishery to be significantly higher than background. Iron, lead, and copper exceeded their EPA Health Benchmarks at the first PPE. Iron also exceeded the EPA Health Based Benchmark at the the second PPE and the fishery just downstream stream of the second PPE. No additional inorganics exceeded their EPA Health Based Benchmarks. 4-Methylphenol was the only organic compound to be detected in the fishery significantly higher than background.

Workers were viewed on the property during both the on-site reconnaissance and the ESI sampling event. There are no residences, day care centers, or schools located on site or within 200 feet of the source areas. The nearest residence is located approximately 500 feet to the east of the site on Austin Chaney Road. In addition, no endangered or threatened plant or animal species are located on site or within 200 feet of any of the source areas.

No measurements with a PID greater than 1.5 units above background were indicated at any of the monitoring wells and no measurements greater than background for the subsurface soil sample collected from within the landfill were indicated with the PID.

Based on the sample results of the ESI and the lack of targets, the Union County Municipal Landfill is recommended for no further action under CERCLA. However, because of the documented exceedances (NCAC 13B .1600 rules) of landfill gas and groundwater contamination in the buffer area surrounding the landfill, environmental assessment of the site shall continue under the regulatory authority of the Division of Waste Management, Solid Waste Section.

**Union County Municipal Landfill**
**NCD 980 503 163**
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PHOTOGRAPHS

**Union County Municipal Landfill**
**NCD 980 503 163**
**PHOTO LOG**

Photo #1: Discharge pipe location from current sediment pond (UCL-013-SS)

Photo #2: Private well north of old section of landfill (UCL-006-PW)

Photo #3: Private well east of old section of landfill (UCL-008-PW)

Photo #4: Top of old landfill; first attempt at UCL -015-SB

Photo #5: Toe of old section of landfill (UCL-015-SB)

Photo #6: PPE#1; Richardson Creek at drainage from sediment pond (UCL-023-SW/SD)

Photo #7: PPE#2; Unnamed tributary surfacing from old section of landfill (UCL-024-SW/SD)

Photo #8: Richardson Creek at drainage from unnamed tributary (UCL-025/125-SW/SD)

Photo #9: Camp located beside sampling location UCL-126-SW/SD; downstream of landfill

Photo #10: Seep from landfill (UCL-024-SW/SD)

#1

**Photo #1**
Discharge pipe location from
current sediment pond
UCL-013-SS

#2

**Photo #2**
Private well north of old section of
landfill
UCL-006-PW

#3

**Photo #3**
Private well east of old section of landfill
UCL-008-PW

4

**Photo #4**
Top of old landfill
First attempt at UCL-015-SB

5

**Photo #5**
Toe of old landfill
UCL-015-SB

6

**Photo #6**
PPE#1; Richardson Creek at
drainage from sediment pond
UCL-023-SW/SD

7

**Photo #7**
PPE#2; Unnamed tributary
surfacing from old landfill
UCL-024-SW/SD

8

**Photo #8**
Richardson Creek at drainage from
unnamed tributary
UCL-025/125-SW/SD

9

**Photo #9**
Camp located beside sampling
location UCL-126-SW/SD;
downstream of landfill

10

**Photo #10**
Seep from landfill
UCL-024-SW/SD

APPENDIX A

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 4**

**Science and Ecosystem Support Division**
**980 College Station Road**
**Athens, Georgia 30605-2720**

**MEMORANDUM**

RECEIVED
APR 17 2001
SUPERFUND SECTION

Date: 04/05/2001

Subject: Results of CLASSICALS/NUTRIENTS Sample Analysis
01-0401 Union County Landfill
Monroe, NC

From: Guthrie, Diane

To: Bennett, Giezelle

CC: Dan LaMontagne
NCDENR

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

March 20, 2001

# INORGANIC DATA QUALIFIERS REPORT

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3311 | Al | U | Positives in cal blanks |
| | As | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3312 | Be | J | Blind spike recovery < warning limit |
| | Ni | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3313 | Al | U | Positives in cal blanks |
| | Be | J | Blind spike recovery < warning limit |
| | Pb | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | Ag | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| 3314 | Be | J | Blind spike recovery < warning limit |
| | As | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3315 | K | J | Serial dilution percent difference = 18.4% |
| 3316 | Be | J | Blind spike recovery < warning limit |
| | Mn | U | Baseline instability in cal, prep, and blind blanks |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3317 | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3318 | Al | U | Positives in cal blanks |
| | Be | J | Blind spike recovery < warning limit |
| | Mn | U | Baseline instability in cal, prep, and blind blanks |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3319 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3320 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3321 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3322 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3323 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| 3324 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7%<br>% RSD > 20% for ICP multiple exposures |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3325 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation- |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | UJ | Matrix spike recovery = 71.7%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3326 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | UJ | Matrix spike recovery = 71.7%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Na | U | Positive in prep blank |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3327 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | J | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | UJ | Matrix spike recovery = 71.7%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | Na | U | Positive in prep blank |
| | Tl | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3328 | Sb | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | Be | J | Blind spike recovery < warning limit |
| | Cr | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3329 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | J | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3330 | Al | U | Positives in cal blanks |
| | Be | J | Blind spike recovery < warning limit |
| | Cr | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |
| 3331 | Sb | J | Matrix spike recovery = 72.8% |
| | As | J | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3332 | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3333 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3334 | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |
| 3335 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | UJ | Matrix spike recovery = 71.7%<br>% RSD > 20% for ICP multiple exposures and results > IDL, but < CRDL |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3336 | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | V | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| 3337 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| 3338 | Be | UJ | Blind spike recovery < warning limit<br>Baseline instability in cal blanks |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3339 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Il | U | Detection limit raised due to lack of sensitivity of instrumentation |
| 3340 | Al | U | Positives in cal blanks |
| | Be | J | Blind spike recovery < warning limit |
| | Fe | U | Positives in cal and prep blanks |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |
| 3341 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3342 | Sb | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |
| 3343 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3344 | Al | U | Positives in cal blanks |
| | Sb | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | Be | J | Blind spike recovery < warning limit |
| | Cr | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |
| 3345 | Be | J | Blind spike recovery < warning limit |
| | K | J | Serial dilution percent difference = 18.4% |
| | Se | J | Blind spike recovery < warning limit |
| 3346 | | No data qualifiers were applied | |
| 3347 | Sb | UJ | Matrix spike recovery = 72.8%<br>% RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | UJ | Matrix spike recovery = 71.7%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Na | U | Positive in prep blank |
| | Tl | U | Detection limit raised due to lack of sensitivity of instrumentation |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3348 | Al | U | Positives in cal blanks |
| | Be | J | Blind spike recovery < warning limit |
| | Cu | U | Baseline instability in cal blanks |
| | Fe | J | Matrix spike recovery = 131.5%<br>Matrix duplicate RPD = 50.8% |
| | K | J | Serial dilution percent difference = 14.1% |
| | Se | J | Blind spike recovery < warning limit |
| | V | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | CN | U | Baseline instability in cal blanks |

March 20, 2001

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 29011
Project Number: 01-0401
Site: Union County Landfill, Monroe, NC

| Sample No. | Element | Flag | Reason |
|---|---|---|---|
| 3349 | Sb | J | Matrix spike recovery = 72.8% |
| | As | UJ | Matrix duplicate RPD = 53.2%<br>Detection limit raised due to lack of sensitivity of instrumentation |
| | Be | U | Baseline instability in cal blanks |
| | Fe | J | Matrix duplicate RPD = 52% |
| | Hg | U | Positive reported < Lowest std on cal curve |
| | Se | J | Matrix spike recovery = 71.7% |
| | Na | U | Positive in prep blank |
| | Tl | U | % RSD > 20% for ICP multiple exposures and result > IDL, but < CRDL |
| | CN | UJ | Matrix spike recovery = 129.5%<br>Baseline instability in cal blanks |
| 3350 | Al | U | Positives in cal blanks |
| | Be | UJ | Blind spike recovery < warning limit<br>Baseline instability in cal blanks |
| | Cu | U | Baseline instability in cal blanks |
| | Fe | J | Matrix spike recovery = 131.5%<br>Matrix duplicate RPD = 50.8% |
| | K | J | Serial dilution percent difference = 14.1% |
| | Se | J | Blind spike recovery < warning limit |
| | CN | U | Baseline instability in cal blanks |

# CADRE Only Review

TIME TRACKER
VERSION 3.1

Case # 29011 Project # 01-0401 Sample Type Inorganic
Number of Samples 43 Date Received from Lab 03/12/01
Ewad No. 04-0101-05 TDF No. 01-0184

| STAGE or PERSON | INITIALS | DATE ACCEPTED | DATE COMPLETED |
|---|---|---|---|
| 0. Recvd. ESAT | BM | 03/12/01 | 03/12/01 |
| 1. Data Reviewer (Begin Review) | JHC | 03/16/01 | 03/20/01 |
| 2. Task Monitor (Recvd. For Overview) | | | |
| 3. Initial Data Entry | | | |
| 4. Data Review (For proofing & Verify) | | | |
| 5. To Task Monitor (For Distribution) | | | |
| 6. Return to EPA for Archival Storage | XXXXXXX | XXXXXXX | |

| R4LIMS # | V | P | E | M | CN | Specified | TCLP |
|---|---|---|---|---|---|---|---|
| 3310 | | | | X | | | |
| 3311 - 3344 | | | | X | X | | |
| 3345 | | | | X | | | |
| 3346 | | | | | X | | |
| 3347 - 3350 | | | | X | X | | |
| 3354 | | | | X | X | | |
| 3355 | | | | X | | | |

ETALS SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD [redacted]HEN [redacted]A [redacted] Pr[redacted]ction [redacted]ate: [redacted]/05/[redacted] 14:[redacted]

Sample: 3510 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL100PB / MD No: 0FX8 Inorg Contractor: LIBRTY

Media: PRESERVATIVE BLANK

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 08:00

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 0.20U | UG/L | BARIUM |
| 0.10U | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 18U | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 0.70U | UG/L | COPPER |
| 14U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 8.9U | UG/L | MAGNESIUM |
| 0.18 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.3U | UG/L | NICKEL |
| 42U | UG/L | POTASSIUM |
| 4.8U | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 150U | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| NA | UG/L | CYANIDE |

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 6 FY 2001 Project: 01-0401

SPECIFIED TESTS

Facility: Union County Landfill
Program: SF
Id/Station: UCL030PB /
Media: PRESERVATIVE BLANK

Monroe, NC
Case No: 29011
MD No: 0G16
Inorg Contractor: LIBRTY

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/28/2001 12:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill
Program: SF
Id/Station: UCL001MW /
Media: GROUNDWATER

Monroe, NC
Case No: 29011
MD No: 0FX9
D No: 0FX9

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 43U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 7.8U | UG/L | ARSENIC |
| 7.2 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 44000 | UG/L | CALCIUM |
| 1.4 | UG/L | CHROMIUM |
| 97 | UG/L | COBALT |
| 1.8 | UG/L | COPPER |
| 1700 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 21000 | UG/L | MAGNESIUM |
| 4500 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 19 | UG/L | NICKEL |
| 650J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 26000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3342 FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:00
Ending:

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL002MW / MD No: 0FY0 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY0 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 480 | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 4.8 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 1700 | UG/L | CALCIUM |
| 2.2 | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 0.84 | UG/L | COPPER |
| 540 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 1000 | UG/L | MAGNESIUM |
| 25 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 2.0U | UG/L | NICKEL |
| 380J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 5100 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL003MW / MD No: 0FY1 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY1 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 61U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 88 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 1.2 | UG/L | CADMIUM |
| 150000 | UG/L | CALCIUM |
| 3.1 | UG/L | CHROMIUM |
| 360 | UG/L | COBALT |
| 10U | UG/L | COPPER |
| 70U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 51000 | UG/L | MAGNESIUM |
| 19000 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 41 | UG/L | NICKEL |
| 1400J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 1.1U | UG/L | SILVER |
| 57000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 21 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3314 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL004MW / MD No: 0FY2 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY2 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 6.1U | UG/L | ARSENIC |
| 3.9 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 110000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 2.5 | UG/L | COBALT |
| 9.3U | UG/L | COPPER |
| 14U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 15000 | UG/L | MAGNESIUM |
| 480 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 13 | UG/L | NICKEL |
| 1000J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 28000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 17 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3315 FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:50
Ending:

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF
Case No: 29011
Id/Station: UCL005MW /
MD No: 0FY3
Inorg Contractor: LIBRTY
Media: GROUNDWATER
D No: 0FY3
Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 9.1 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 99000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 0.70U | UG/L | COPPER |
| 1500 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 10000 | UG/L | MAGNESIUM |
| 1400 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 2.5 | UG/L | NICKEL |
| 620J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 18000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-Interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS EPA - REGION IV SESD ATHENS GA Pr ctio ate 05/ 1 14

Sample FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 08:48
Ending:

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL006PW / MD No: 0FY4 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY4 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 0.20U | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 17000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 23 | UG/L | COPPER |
| 14U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 9700 | UG/L | MAGNESIUM |
| 2.5U | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.9 | UG/L | NICKEL |
| 420J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 16000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 14 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS EPA - REGION IV SESD ATHENS, GA Pr[redacted]ctio[redacted]ate [redacted]/05/[redacted]1 14[redacted]

Sample [redacted]7 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL008PW / MD No: 0FY5 Inorg Contractor: LIBRTY

Media: POTABLE WATER D No: 0FY5 Org Contractor: MITKEM

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 09:25

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 0.76 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 18000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 0.98 | UG/L | COPPER |
| 880 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 3000 | UG/L | MAGNESIUM |
| 100 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.6 | UG/L | NICKEL |
| 250J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 9600 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] ATHENS [redacted] Pr[redacted]ctio[redacted]ate: [redacted]05/[redacted] 14[redacted]

Sample 3318 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010PW / MD No: 0FY6 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY6 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:07
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 24U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 0.34 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 11000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 12 | UG/L | COPPER |
| 14U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 5700 | UG/L | MAGNESIUM |
| 0.54U | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.3U | UG/L | NICKEL |
| 360J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 12000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 6.6 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3579 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL011SS / MD No: 0FY7 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY7 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 11000 | MG/KG | ALUMINUM |
| 0.70UJ | MG/KG | ANTIMONY |
| 5.7UJ | MG/KG | ARSENIC |
| 88 | MG/KG | BARIUM |
| 0.51U | MG/KG | BERYLLIUM |
| 0.15U | MG/KG | CADMIUM |
| 880 | MG/KG | CALCIUM |
| 27 | MG/KG | CHROMIUM |
| 17 | MG/KG | COBALT |
| 20 | MG/KG | COPPER |
| 28000J | MG/KG | IRON |
| 20 | MG/KG | LEAD |
| 2100 | MG/KG | MAGNESIUM |
| 1200 | MG/KG | MANGANESE |
| 0.08U | MG/KG | TOTAL MERCURY |
| 12 | MG/KG | NICKEL |
| 370 | MG/KG | POTASSIUM |
| 1.2UJ | MG/KG | SELENIUM |
| 0.12U | MG/KG | SILVER |
| 84U | MG/KG | SODIUM |
| 3.1U | MG/KG | THALLIUM |
| 27 | MG/KG | VANADIUM |
| 39 | MG/KG | ZINC |
| 0.05UJ | MG/KG | CYANIDE |
| 26 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD ATHENS GA [redacted] Pr[redacted]ctio[redacted]ate [redacted]05/[redacted] 14[redacted]

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL012SS / MD No: 0FY8 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY8 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:22
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 10000 | MG/KG | ALUMINUM |
| 0.78UJ | MG/KG | ANTIMONY |
| 4.5UJ | MG/KG | ARSENIC |
| 140 | MG/KG | BARIUM |
| 0.53U | MG/KG | BERYLLIUM |
| 0.19U | MG/KG | CADMIUM |
| 2000 | MG/KG | CALCIUM |
| 14 | MG/KG | CHROMIUM |
| 12 | MG/KG | COBALT |
| 17 | MG/KG | COPPER |
| 16000J | MG/KG | IRON |
| 15 | MG/KG | LEAD |
| 2100 | MG/KG | MAGNESIUM |
| 840 | MG/KG | MANGANESE |
| 0.17 | MG/KG | TOTAL MERCURY |
| 15 | MG/KG | NICKEL |
| 430 | MG/KG | POTASSIUM |
| 1.5UJ | MG/KG | SELENIUM |
| 0.16U | MG/KG | SILVER |
| 120U | MG/KG | SODIUM |
| 1.9U | MG/KG | THALLIUM |
| 18 | MG/KG | VANADIUM |
| 46 | MG/KG | ZINC |
| 0.15UJ | MG/KG | CYANIDE |
| 38 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL013SS / MD No: 0FY9 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY9 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 17000 | MG/KG | ALUMINUM |
| 1.1J | MG/KG | ANTIMONY |
| 6.8UJ | MG/KG | ARSENIC |
| 43 | MG/KG | BARIUM |
| 0.57U | MG/KG | BERYLLIUM |
| 0.16U | MG/KG | CADMIUM |
| 720 | MG/KG | CALCIUM |
| 30 | MG/KG | CHROMIUM |
| 18 | MG/KG | COBALT |
| 36 | MG/KG | COPPER |
| 36000J | MG/KG | IRON |
| 9.7 | MG/KG | LEAD |
| 5300 | MG/KG | MAGNESIUM |
| 510 | MG/KG | MANGANESE |
| 0.06U | MG/KG | TOTAL MERCURY |
| 25 | MG/KG | NICKEL |
| 440 | MG/KG | POTASSIUM |
| 1.3UJ | MG/KG | SELENIUM |
| 0.13U | MG/KG | SILVER |
| 120U | MG/KG | SODIUM |
| 4.0U | MG/KG | THALLIUM |
| 35 | MG/KG | VANADIUM |
| 110 | MG/KG | ZINC |
| 0.05UJ | MG/KG | CYANIDE |
| 31 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3522 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL015SB / MD No: 0FZ0 Inorg Contractor: LIBRTY

Media: SUBSURFACE SOIL (> 12") D No: 0FZ0 Org Contractor: CEIMIC

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 14:55

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 14000 | MG/KG | ALUMINUM |
| 0.84UJ | MG/KG | ANTIMONY |
| 5.1UJ | MG/KG | ARSENIC |
| 37 | MG/KG | BARIUM |
| 0.54U | MG/KG | BERYLLIUM |
| 0.17U | MG/KG | CADMIUM |
| 340 | MG/KG | CALCIUM |
| 26 | MG/KG | CHROMIUM |
| 19 | MG/KG | COBALT |
| 32 | MG/KG | COPPER |
| 30000J | MG/KG | IRON |
| 11 | MG/KG | LEAD |
| 4700 | MG/KG | MAGNESIUM |
| 510 | MG/KG | MANGANESE |
| 0.05U | MG/KG | TOTAL MERCURY |
| 22 | MG/KG | NICKEL |
| 190 | MG/KG | POTASSIUM |
| 1.3UJ | MG/KG | SELENIUM |
| 0.14U | MG/KG | SILVER |
| 120U | MG/KG | SODIUM |
| 3.5U | MG/KG | THALLIUM |
| 31 | MG/KG | VANADIUM |
| 60 | MG/KG | ZINC |
| 0.04U | MG/KG | CYANIDE |
| 29 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS EPA - REGION IV SESD ATHENS, GA Pr[redacted]ctio[redacted]ate[redacted]/05/[redacted]1 1[redacted]

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL016SB / MD No: 0FZ1 Inorg Contractor: LIBRTY

Media: SUBSURFACE SOIL (> 12") D No: 0FZ1 Org Contractor: CEIMIC

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 10:40

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 7800 | MG/KG | ALUMINUM |
| 1.2J | MG/KG | ANTIMONY |
| 2.0UJ | MG/KG | ARSENIC |
| 19 | MG/KG | BARIUM |
| 0.33U | MG/KG | BERYLLIUM |
| 0.15U | MG/KG | CADMIUM |
| 500 | MG/KG | CALCIUM |
| 37 | MG/KG | CHROMIUM |
| 1.8 | MG/KG | COBALT |
| 26 | MG/KG | COPPER |
| 43000J | MG/KG | IRON |
| 13 | MG/KG | LEAD |
| 990 | MG/KG | MAGNESIUM |
| 86 | MG/KG | MANGANESE |
| 0.06U | MG/KG | TOTAL MERCURY |
| 5.2 | MG/KG | NICKEL |
| 61 | MG/KG | POTASSIUM |
| 1.7J | MG/KG | SELENIUM |
| 0.13U | MG/KG | SILVER |
| 170U | MG/KG | SODIUM |
| 4.8U | MG/KG | THALLIUM |
| 43 | MG/KG | VANADIUM |
| 21J | MG/KG | ZINC |
| 0.04U | MG/KG | CYANIDE |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]24 FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:30
Ending:

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SS / MD No: 0FZ2 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ2 Org Contractor: CEIMIC

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 10000 | MG/KG | ALUMINUM |
| 1.2UJ | MG/KG | ANTIMONY |
| 5.1UJ | MG/KG | ARSENIC |
| 91 | MG/KG | BARIUM |
| 0.37U | MG/KG | BERYLLIUM |
| 0.15U | MG/KG | CADMIUM |
| 1300 | MG/KG | CALCIUM |
| 34 | MG/KG | CHROMIUM |
| 5.9 | MG/KG | COBALT |
| 22 | MG/KG | COPPER |
| 36000J | MG/KG | IRON |
| 36 | MG/KG | LEAD |
| 1100 | MG/KG | MAGNESIUM |
| 440 | MG/KG | MANGANESE |
| 0.21 | MG/KG | TOTAL MERCURY |
| 7.6 | MG/KG | NICKEL |
| 570 | MG/KG | POTASSIUM |
| 1.7J | MG/KG | SELENIUM |
| 0.12U | MG/KG | SILVER |
| 96U | MG/KG | SODIUM |
| 4.2U | MG/KG | THALLIUM |
| 43 | MG/KG | VANADIUM |
| 180 | MG/KG | ZINC |
| 0.16UJ | MG/KG | CYANIDE |
| 24 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SB / MD No: 0FZ3 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ3 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 11000 | MG/KG | ALUMINUM |
| 0.76J | MG/KG | ANTIMONY |
| 2.0UJ | MG/KG | ARSENIC |
| 25 | MG/KG | BARIUM |
| 0.26U | MG/KG | BERYLLIUM |
| 0.14U | MG/KG | CADMIUM |
| 380 | MG/KG | CALCIUM |
| 25 | MG/KG | CHROMIUM |
| 28 | MG/KG | COBALT |
| 42 | MG/KG | COPPER |
| 35000J | MG/KG | IRON |
| 21 | MG/KG | LEAD |
| 2300 | MG/KG | MAGNESIUM |
| 540 | MG/KG | MANGANESE |
| 0.07U | MG/KG | TOTAL MERCURY |
| 19 | MG/KG | NICKEL |
| 80 | MG/KG | POTASSIUM |
| 1.3UJ | MG/KG | SELENIUM |
| 0.12U | MG/KG | SILVER |
| 92U | MG/KG | SODIUM |
| 4.3U | MG/KG | THALLIUM |
| 32 | MG/KG | VANADIUM |
| 46 | MG/KG | ZINC |
| 0.06UJ | MG/KG | CYANIDE |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SS / MD No: 0FZ4 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ4 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:57
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 11000 | MG/KG | ALUMINUM |
| 1.1UJ | MG/KG | ANTIMONY |
| 5.4UJ | MG/KG | ARSENIC |
| 94 | MG/KG | BARIUM |
| 0.45U | MG/KG | BERYLLIUM |
| 0.15U | MG/KG | CADMIUM |
| 1900 | MG/KG | CALCIUM |
| 42 | MG/KG | CHROMIUM |
| 5.8 | MG/KG | COBALT |
| 25 | MG/KG | COPPER |
| 37000J | MG/KG | IRON |
| 36 | MG/KG | LEAD |
| 1200 | MG/KG | MAGNESIUM |
| 420 | MG/KG | MANGANESE |
| 0.18 | MG/KG | TOTAL MERCURY |
| 8.0 | MG/KG | NICKEL |
| 500 | MG/KG | POTASSIUM |
| 1.6UJ | MG/KG | SELENIUM |
| 0.12U | MG/KG | SILVER |
| 180U | MG/KG | SODIUM |
| 4.4U | MG/KG | THALLIUM |
| 46 | MG/KG | VANADIUM |
| 240 | MG/KG | ZINC |
| 0.13UJ | MG/KG | CYANIDE |
| 21 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected; the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SD / MD No: 0FZ5 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ5 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 7800 | MG/KG | ALUMINUM |
| 1.1UJ | MG/KG | ANTIMONY |
| 6.1UJ | MG/KG | ARSENIC |
| 50 | MG/KG | BARIUM |
| 0.48U | MG/KG | BERYLLIUM |
| 0.20U | MG/KG | CADMIUM |
| 1200 | MG/KG | CALCIUM |
| 31 | MG/KG | CHROMIUM |
| 9.0 | MG/KG | COBALT |
| 14 | MG/KG | COPPER |
| 23000J | MG/KG | IRON |
| 15 | MG/KG | LEAD |
| 1700 | MG/KG | MAGNESIUM |
| 630 | MG/KG | MANGANESE |
| 0.12U | MG/KG | TOTAL MERCURY |
| 16 | MG/KG | NICKEL |
| 180 | MG/KG | POTASSIUM |
| 1.6UJ | MG/KG | SELENIUM |
| 0.17U | MG/KG | SILVER |
| 200U | MG/KG | SODIUM |
| 2.7U | MG/KG | THALLIUM |
| 24 | MG/KG | VANADIUM |
| 68 | MG/KG | ZINC |
| 0.21UJ | MG/KG | CYANIDE |
| 40 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate[redacted]05/[redacted] 14[redacted]

Sample [redacted] FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL019SD / MD No: 0FZ7 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ7 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 11000 | MG/KG | ALUMINUM |
| 1.2J | MG/KG | ANTIMONY |
| 6.3UJ | MG/KG | ARSENIC |
| 68 | MG/KG | BARIUM |
| 0.62U | MG/KG | BERYLLIUM |
| 0.29U | MG/KG | CADMIUM |
| 870 | MG/KG | CALCIUM |
| 43 | MG/KG | CHROMIUM |
| 9.8 | MG/KG | COBALT |
| 26 | MG/KG | COPPER |
| 36000J | MG/KG | IRON |
| 25 | MG/KG | LEAD |
| 3000 | MG/KG | MAGNESIUM |
| 390 | MG/KG | MANGANESE |
| 0.11U | MG/KG | TOTAL MERCURY |
| 21 | MG/KG | NICKEL |
| 250 | MG/KG | POTASSIUM |
| 2.3UJ | MG/KG | SELENIUM |
| 0.24U | MG/KG | SILVER |
| 350U | MG/KG | SODIUM |
| 4.0U | MG/KG | THALLIUM |
| 34 | MG/KG | VANADIUM |
| 85 | MG/KG | ZINC |
| 0.14UJ | MG/KG | CYANIDE |
| 58 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3331 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF

Id/Station: UCL020SD /

Media: SEDIMENT

Case No: 29011

MD No: 0FZ9

D No: 0FZ9

Inorg Contractor: LIBRTY

Org Contractor: CEIMIC

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 18:02

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15000 | MG/KG | ALUMINUM |
| 1.2UJ | MG/KG | ANTIMONY |
| 8.0UJ | MG/KG | ARSENIC |
| 68 | MG/KG | BARIUM |
| 0.40U | MG/KG | BERYLLIUM |
| 0.30U | MG/KG | CADMIUM |
| 820 | MG/KG | CALCIUM |
| 18 | MG/KG | CHROMIUM |
| 7.2 | MG/KG | COBALT |
| 40 | MG/KG | COPPER |
| 23000J | MG/KG | IRON |
| 13 | MG/KG | LEAD |
| 1700 | MG/KG | MAGNESIUM |
| 950 | MG/KG | MANGANESE |
| 0.12U | MG/KG | TOTAL MERCURY |
| 9.4 | MG/KG | NICKEL |
| 360 | MG/KG | POTASSIUM |
| 2.4UJ | MG/KG | SELENIUM |
| 0.25U | MG/KG | SILVER |
| 290U | MG/KG | SODIUM |
| 3.0U | MG/KG | THALLIUM |
| 26 | MG/KG | VANADIUM |
| 120 | MG/KG | ZINC |
| 0.11UJ | MG/KG | CYANIDE |
| 60 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] EPA - [redacted]ION [redacted]ES[redacted]HEN[redacted]A [redacted] Production Date: 04/05/2001 14:20

Sample 3533 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL021SD / MD No: 0G01 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G01 Org Contractor: CEIMIC

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 17:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 14000 | MG/KG | ALUMINUM |
| 1.2UJ | MG/KG | ANTIMONY |
| 6.7UJ | MG/KG | ARSENIC |
| 63 | MG/KG | BARIUM |
| 0.42U | MG/KG | BERYLLIUM |
| 0.28U | MG/KG | CADMIUM |
| 750 | MG/KG | CALCIUM |
| 17 | MG/KG | CHROMIUM |
| 6.6 | MG/KG | COBALT |
| 34 | MG/KG | COPPER |
| 21000J | MG/KG | IRON |
| 12 | MG/KG | LEAD |
| 1600 | MG/KG | MAGNESIUM |
| 780 | MG/KG | MANGANESE |
| 0.10U | MG/KG | TOTAL MERCURY |
| 8.3 | MG/KG | NICKEL |
| 320 | MG/KG | POTASSIUM |
| 2.2UJ | MG/KG | SELENIUM |
| 0.23U | MG/KG | SILVER |
| 250U | MG/KG | SODIUM |
| 2.9U | MG/KG | THALLIUM |
| 24 | MG/KG | VANADIUM |
| 110 | MG/KG | ZINC |
| 0.07U | MG/KG | CYANIDE |
| 58 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] PA - [redacted] ION [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: [redacted]/05/[redacted]1 14:[redacted]

Sample: 3535 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL022SD / MD No: 0G03 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G03 Org Contractor: CEIMIC

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 16:36

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 9400 | MG/KG | ALUMINUM |
| 0.82UJ | MG/KG | ANTIMONY |
| 6.6UJ | MG/KG | ARSENIC |
| 93 | MG/KG | BARIUM |
| 0.78U | MG/KG | BERYLLIUM |
| 0.19U | MG/KG | CADMIUM |
| 850 | MG/KG | CALCIUM |
| 24 | MG/KG | CHROMIUM |
| 7.8 | MG/KG | COBALT |
| 11 | MG/KG | COPPER |
| 28000J | MG/KG | IRON |
| 16 | MG/KG | LEAD |
| 1100 | MG/KG | MAGNESIUM |
| 370 | MG/KG | MANGANESE |
| 0.11U | MG/KG | TOTAL MERCURY |
| 9.8 | MG/KG | NICKEL |
| 410 | MG/KG | POTASSIUM |
| 1.5UJ | MG/KG | SELENIUM |
| 0.16U | MG/KG | SILVER |
| 160U | MG/KG | SODIUM |
| 3.5U | MG/KG | THALLIUM |
| 33 | MG/KG | VANADIUM |
| 25 | MG/KG | ZINC |
| 0.08UJ | MG/KG | CYANIDE |
| 41 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL023SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G05
D No: 0G05

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 9200 | MG/KG | ALUMINUM |
| 0.93UJ | MG/KG | ANTIMONY |
| 4.6UJ | MG/KG | ARSENIC |
| 87 | MG/KG | BARIUM |
| 0.38U | MG/KG | BERYLLIUM |
| 0.22U | MG/KG | CADMIUM |
| 800 | MG/KG | CALCIUM |
| 18 | MG/KG | CHROMIUM |
| 8.9 | MG/KG | COBALT |
| 18 | MG/KG | COPPER |
| 20000J | MG/KG | IRON |
| 16 | MG/KG | LEAD |
| 1600 | MG/KG | MAGNESIUM |
| 830 | MG/KG | MANGANESE |
| 0.13U | MG/KG | TOTAL MERCURY |
| 12 | MG/KG | NICKEL |
| 430 | MG/KG | POTASSIUM |
| 1.8UJ | MG/KG | SELENIUM |
| 0.19U | MG/KG | SILVER |
| 350U | MG/KG | SODIUM |
| 2.3U | MG/KG | THALLIUM |
| 25 | MG/KG | VANADIUM |
| 46 | MG/KG | ZINC |
| 0.06U | MG/KG | CYANIDE |
| 48 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS [redacted] EPA - [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted] Date: [redacted]/05/[redacted]1 1[redacted]

Sample [redacted]9 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL024SD / MD No: 0G07 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G07 Org Contractor: CEIMIC

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 13:11

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 10000 | MG/KG | ALUMINUM |
| 1.6J | MG/KG | ANTIMONY |
| 24UJ | MG/KG | ARSENIC |
| 49 | MG/KG | BARIUM |
| 0.86U | MG/KG | BERYLLIUM |
| 0.15U | MG/KG | CADMIUM |
| 1500 | MG/KG | CALCIUM |
| 37 | MG/KG | CHROMIUM |
| 19 | MG/KG | COBALT |
| 25 | MG/KG | COPPER |
| 61000J | MG/KG | IRON |
| 19 | MG/KG | LEAD |
| 3200 | MG/KG | MAGNESIUM |
| 1000 | MG/KG | MANGANESE |
| 0.06U | MG/KG | TOTAL MERCURY |
| 19 | MG/KG | NICKEL |
| 98 | MG/KG | POTASSIUM |
| 2.6J | MG/KG | SELENIUM |
| 0.12U | MG/KG | SILVER |
| 140U | MG/KG | SODIUM |
| 6.6U | MG/KG | THALLIUM |
| 45 | MG/KG | VANADIUM |
| 110 | MG/KG | ZINC |
| 0.04U | MG/KG | CYANIDE |
| 26 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] PA - [redacted] ION [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: [redacted]/05/[redacted] 14:20

Sample: 3341 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL025SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G09
D No: 0G09

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5400 | MG/KG | ALUMINUM |
| 1.1J | MG/KG | ANTIMONY |
| 7.4UJ | MG/KG | ARSENIC |
| 38 | MG/KG | BARIUM |
| 0.37U | MG/KG | BERYLLIUM |
| 0.17U | MG/KG | CADMIUM |
| 790 | MG/KG | CALCIUM |
| 27 | MG/KG | CHROMIUM |
| 16 | MG/KG | COBALT |
| 16 | MG/KG | COPPER |
| 31000J | MG/KG | IRON |
| 13 | MG/KG | LEAD |
| 1500 | MG/KG | MAGNESIUM |
| 380 | MG/KG | MANGANESE |
| 0.05U | MG/KG | TOTAL MERCURY |
| 17 | MG/KG | NICKEL |
| 130 | MG/KG | POTASSIUM |
| 1.4UJ | MG/KG | SELENIUM |
| 0.14U | MG/KG | SILVER |
| 190U | MG/KG | SODIUM |
| 4.0U | MG/KG | THALLIUM |
| 30 | MG/KG | VANADIUM |
| 60 | MG/KG | ZINC |
| 0.11UJ | MG/KG | CYANIDE |
| 33 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS [redacted] EPA - REGION IV ESD ATHENS GA [redacted] Production Date [redacted]/05/[redacted] 1[redacted]

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SD / MD No: 0G11 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G11 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 12000 | MG/KG | ALUMINUM |
| 1.9UJ | MG/KG | ANTIMONY |
| 7.4UJ | MG/KG | ARSENIC |
| 140 | MG/KG | BARIUM |
| 0.56U | MG/KG | BERYLLIUM |
| 0.46U | MG/KG | CADMIUM |
| 3100 | MG/KG | CALCIUM |
| 27 | MG/KG | CHROMIUM |
| 13 | MG/KG | COBALT |
| 33 | MG/KG | COPPER |
| 29000J | MG/KG | IRON |
| 22 | MG/KG | LEAD |
| 3000 | MG/KG | MAGNESIUM |
| 2400 | MG/KG | MANGANESE |
| 0.18U | MG/KG | TOTAL MERCURY |
| 24 | MG/KG | NICKEL |
| 780 | MG/KG | POTASSIUM |
| 3.7UJ | MG/KG | SELENIUM |
| 0.38U | MG/KG | SILVER |
| 610U | MG/KG | SODIUM |
| 4.8U | MG/KG | THALLIUM |
| 33 | MG/KG | VANADIUM |
| 140 | MG/KG | ZINC |
| 0.51UJ | MG/KG | CYANIDE |
| 76 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill
Program: SF
Id/Station: UCL125SD /
Media: SEDIMENT

Monroe, NC
Case No: 29011
MD No: 0G17
D No: 0G17

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 6700 | MG/KG | ALUMINUM |
| 1.4UJ | MG/KG | ANTIMONY |
| 7.0UJ | MG/KG | ARSENIC |
| 48 | MG/KG | BARIUM |
| 0.55U | MG/KG | BERYLLIUM |
| 0.16U | MG/KG | CADMIUM |
| 830 | MG/KG | CALCIUM |
| 29 | MG/KG | CHROMIUM |
| 12 | MG/KG | COBALT |
| 21 | MG/KG | COPPER |
| 37000J | MG/KG | IRON |
| 15 | MG/KG | LEAD |
| 1400 | MG/KG | MAGNESIUM |
| 430 | MG/KG | MANGANESE |
| 0.09U | MG/KG | TOTAL MERCURY |
| 29 | MG/KG | NICKEL |
| 140 | MG/KG | POTASSIUM |
| 1.7UJ | MG/KG | SELENIUM |
| 0.13U | MG/KG | SILVER |
| 160U | MG/KG | SODIUM |
| 4.3U | MG/KG | THALLIUM |
| 29 | MG/KG | VANADIUM |
| 64 | MG/KG | ZINC |
| 0.15UJ | MG/KG | CYANIDE |
| 29 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]549 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SD / MD No: 0G19 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G19 Org Contractor: CEIMIC

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:54
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 8300 | MG/KG | ALUMINUM |
| 0.86J | MG/KG | ANTIMONY |
| 4.9UJ | MG/KG | ARSENIC |
| 64 | MG/KG | BARIUM |
| 0.35U | MG/KG | BERYLLIUM |
| 0.20U | MG/KG | CADMIUM |
| 570 | MG/KG | CALCIUM |
| 16 | MG/KG | CHROMIUM |
| 5.8 | MG/KG | COBALT |
| 12 | MG/KG | COPPER |
| 17000J | MG/KG | IRON |
| 11 | MG/KG | LEAD |
| 1100 | MG/KG | MAGNESIUM |
| 370 | MG/KG | MANGANESE |
| 0.15U | MG/KG | TOTAL MERCURY |
| 6.3 | MG/KG | NICKEL |
| 370 | MG/KG | POTASSIUM |
| 1.6UJ | MG/KG | SELENIUM |
| 0.17U | MG/KG | SILVER |
| 240U | MG/KG | SODIUM |
| 2.3U | MG/KG | THALLIUM |
| 23 | MG/KG | VANADIUM |
| 23 | MG/KG | ZINC |
| 0.052U | MG/KG | CYANIDE |
| 42 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] EPA - [redacted]ION [redacted]ESD [redacted]HEN[redacted]A [redacted] Pr[redacted]ction [redacted]ate: [redacted]/05/[redacted]1 14.[redacted]

Sample [redacted]28 FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:00
Ending:

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SW / MD No: 0FZ6 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ6 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 140U | UG/L | ALUMINUM |
| 3.3U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 14 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 14000 | UG/L | CALCIUM |
| 0.60 | UG/L | CHROMIUM |
| 0.77U | UG/L | COBALT |
| 6.6 | UG/L | COPPER |
| 520 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 12000 | UG/L | MAGNESIUM |
| 36 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 2.9 | UG/L | NICKEL |
| 8000J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 26000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.7 | UG/L | VANADIUM |
| 14 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3330 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL019SW / MD No: 0FZ8 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ8 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:20
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 130U | UG/L | ALUMINUM |
| 4.0 | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 14 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 14000 | UG/L | CALCIUM |
| 0.58U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 6.8 | UG/L | COPPER |
| 590 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 12000 | UG/L | MAGNESIUM |
| 57 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 3.0 | UG/L | NICKEL |
| 8300J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 27000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.3 | UG/L | VANADIUM |
| 15 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3332 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010SW / MD No: 0G00 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G00 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:52
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 240 | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 16 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 15000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 3.0 | UG/L | COPPER |
| 710 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 4900 | UG/L | MAGNESIUM |
| 700 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.6 | UG/L | NICKEL |
| 3900J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 14000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 3.3 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate[redacted]/05[redacted]1 1[redacted]

Sample 3334 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL021SW /
Media: SURFACE WATER

Case No: 29011
MD No: 0G02
D No: 0G02

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 180 | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 15 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 15000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 3.2 | UG/L | COPPER |
| 680 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 4800 | UG/L | MAGNESIUM |
| 630 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.3U | UG/L | NICKEL |
| 3900J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 14000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 2.0 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3536 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL022SW / MD No: 0G04 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G04 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:27
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 530 | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 35 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 4400 | UG/L | CALCIUM |
| 0.90 | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 1.8 | UG/L | COPPER |
| 890 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 3200 | UG/L | MAGNESIUM |
| 25 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.7 | UG/L | NICKEL |
| 2100J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 7300 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.4U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS [redacted] EPA - REGION IV ESD ATHEN[redacted]A [redacted] Pr[redacted]ctio[redacted]ate[redacted]/05/[redacted]1 1[redacted]

Sample [redacted] FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL023SW / MD No: 0G06 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G06 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 4900 | UG/L | ALUMINUM |
| 3.7 | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 61 | UG/L | BARIUM |
| 0.18UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 16000 | UG/L | CALCIUM |
| 9.4 | UG/L | CHROMIUM |
| 6.2 | UG/L | COBALT |
| 17 | UG/L | COPPER |
| 10000 | UG/L | IRON |
| 7.2 | UG/L | LEAD |
| 14000 | UG/L | MAGNESIUM |
| 680 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 12 | UG/L | NICKEL |
| 8900J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 30000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 11 | UG/L | VANADIUM |
| 67 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3540 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SW / MD No: 0G08 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G08 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 18U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 88 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 33000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 2.1 | UG/L | COBALT |
| 3.7 | UG/L | COPPER |
| 100U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 25000 | UG/L | MAGNESIUM |
| 450 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 12 | UG/L | NICKEL |
| 20000J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 78000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 13 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3342 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SW / MD No: 0G10 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G10 Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 160 | UG/L | ALUMINUM |
| 3.3U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 33 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 27000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 3.0 | UG/L | COBALT |
| 4.8 | UG/L | COPPER |
| 2200 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 13000 | UG/L | MAGNESIUM |
| 840 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 4.2 | UG/L | NICKEL |
| 8200J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 31000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.0 | UG/L | VANADIUM |
| 15 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] THEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate[redacted]/05[redacted]1 1[redacted]

Sample 3544 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL026SW / MD No: 0G12 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G12 Org Contractor: MITKEM

Produced by: Guthrie, Diane

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 11:00

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 130U | UG/L | ALUMINUM |
| 4.6U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 15 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 15000 | UG/L | CALCIUM |
| 0.63U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 6.4 | UG/L | COPPER |
| 500 | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 11000 | UG/L | MAGNESIUM |
| 50 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 2.8 | UG/L | NICKEL |
| 8700J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 29000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.2 | UG/L | VANADIUM |
| 19 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ETALS SAMPLE ANALYSIS [redacted] EPA - [redacted]ION [redacted]ESD [redacted]HEN [redacted]A [redacted] Production Date: [redacted]/05/[redacted]1 1[redacted]

Sample 3548 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill
Program: SF
Id/Station: UCL125SW /
Media: SURFACE WATER

Monroe, NC
Case No: 29011
MD No: 0G18
D No: 0G18

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 140U | UG/L | ALUMINUM |
| 2.7 | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 27 | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 24000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 2.5 | UG/L | COBALT |
| 4.2U | UG/L | COPPER |
| 1600J | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 12000 | UG/L | MAGNESIUM |
| 680 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 3.2 | UG/L | NICKEL |
| 7900J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 30000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.2U | UG/L | VANADIUM |
| 12 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3030 FY 2001 Project: 01-0401

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:49
Ending:

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SW / MD No: 0G20 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G20 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 210U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 23 | UG/L | BARIUM |
| 0.18UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 11000 | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.76 | UG/L | COBALT |
| 3.4U | UG/L | COPPER |
| 580J | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 6200 | UG/L | MAGNESIUM |
| 62 | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.5 | UG/L | NICKEL |
| 3800J | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 14000 | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 1.5 | UG/L | VANADIUM |
| 8.2 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]45 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL029PB / MD No: 0G15 Inorg Contractor: LIBRTY
Media: PRESERVATIVE BLANK

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/28/2001 12:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 2.5U | UG/L | ANTIMONY |
| 4.2U | UG/L | ARSENIC |
| 0.20U | UG/L | BARIUM |
| 0.10UJ | UG/L | BERYLLIUM |
| 0.60U | UG/L | CADMIUM |
| 18U | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 0.70U | UG/L | COBALT |
| 0.70U | UG/L | COPPER |
| 14U | UG/L | IRON |
| 1.7U | UG/L | LEAD |
| 8.9U | UG/L | MAGNESIUM |
| 0.10U | UG/L | MANGANESE |
| 0.10U | UG/L | TOTAL MERCURY |
| 1.3U | UG/L | NICKEL |
| 42UJ | UG/L | POTASSIUM |
| 4.8UJ | UG/L | SELENIUM |
| 0.50U | UG/L | SILVER |
| 150U | UG/L | SODIUM |
| 6.2U | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 1.1U | UG/L | ZINC |
| NA | UG/L | CYANIDE |

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3054 FY 2001 Project: 01-0401

**METALS SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: QA009PES / MD No: 0G58 Inorg Contractor: LIBRTY
Media: WATSPK

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 16:00
Ending:
IS1226M,PD909CN

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/L | ALUMINUM |
| 130 | UG/L | ANTIMONY |
| 38 | UG/L | ARSENIC |
| 590 | UG/L | BARIUM |
| 21 | UG/L | BERYLLIUM |
| 23 | UG/L | CADMIUM |
| 18U | UG/L | CALCIUM |
| 0.50U | UG/L | CHROMIUM |
| 170 | UG/L | COBALT |
| 0.70U | UG/L | COPPER |
| 310 | UG/L | IRON |
| 17 | UG/L | LEAD |
| 12000 | UG/L | MAGNESIUM |
| 80 | UG/L | MANGANESE |
| 5.6 | UG/L | TOTAL MERCURY |
| 1.3U | UG/L | NICKEL |
| 14000J | UG/L | POTASSIUM |
| 76 | UG/L | SELENIUM |
| 33 | UG/L | SILVER |
| 200U | UG/L | SODIUM |
| 28 | UG/L | THALLIUM |
| 0.70U | UG/L | VANADIUM |
| 110 | UG/L | ZINC |
| 10U | UG/L | CYANIDE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS [redacted] EPA [redacted] REGION [redacted] ESD [redacted] ATHENS [redacted] GA [redacted] P[redacted]ctio[redacted]Date[redacted]/05[redacted]1 1[redacted]

Sample [redacted]5 FY 2001 Project: 01-0401

METALS SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: QA005PES / MD No: 0G59 Inorg Contractor: LIBRTY
Media: SEDIMSPK

Produced by: Guthrie, Diane
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 16:00
Ending:
ICC00489
DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1000 | MG/KG | ALUMINUM |
| 2.0 | MG/KG | ANTIMONY |
| 66 | MG/KG | ARSENIC |
| 95 | MG/KG | BARIUM |
| 0.08 | MG/KG | BERYLLIUM |
| 0.64 | MG/KG | CADMIUM |
| 33000 | MG/KG | CALCIUM |
| 4.4 | MG/KG | CHROMIUM |
| 6.6 | MG/KG | COBALT |
| 260 | MG/KG | COPPER |
| 2700 | MG/KG | IRON |
| 840 | MG/KG | LEAD |
| 12000 | MG/KG | MAGNESIUM |
| 320 | MG/KG | MANGANESE |
| 0.14 | MG/KG | TOTAL MERCURY |
| 4.2 | MG/KG | NICKEL |
| 430 | MG/KG | POTASSIUM |
| 0.97U | MG/KG | SELENIUM |
| 0.10U | MG/KG | SILVER |
| 140 | MG/KG | SODIUM |
| 1.2U | MG/KG | THALLIUM |
| 110 | MG/KG | VANADIUM |
| 220 | MG/KG | ZINC |
| NA | MG/KG | CYANIDE |
| 1.0 | % | % MOISTURE |

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 4**

**Science and Ecosystem Support Division**
**980 College Station Road**
**Athens, Georgia 30605-2720**

RECEIVED
APR 27 2001
SUPERFUND SECTION

***MEMORANDUM***

Date: 04/17/2001

Subject: Results of PESTICIDES/PCB Sample Analysis
01-0401 Union County Landfill
Monroe, NC

From: Goddard, Denise

To: Bennett, Giezelle

CC: Dan LaMontagne
NCDENR

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

**ATTACHMENT**

Sample 3511 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL001MW / MD No: 0FX9 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FX9 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.10NJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.048 | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3312 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:00
Ending:

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL002MW / MD No: 0FY0 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY0 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS [redacted] EPA [redacted]GION [redacted]SES [redacted]HE [redacted]GA [redacted] Production Date: 04/17/2001 07:24

Sample 3013 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL003MW / MD No: 0FY1 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY1 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3514 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL004MW / MD No: 0FY2 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY2 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3315 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:50
Ending:

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL005MW / MD No: 0FY3 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY3 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS [redacted] EPA [redacted] REGION [redacted] SES [redacted] THE [redacted] GA [redacted] Production Date: [redacted]/17/2001 07:24

Sample [redacted]16 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 08:48
Ending:

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL006PW / MD No: 0FY4 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY4 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ES[redacted]DES/P[redacted] SA[redacted]E AN[redacted]YSIS [redacted] [redacted] [redacted]PA [redacted]ION [redacted]ES[redacted]HEN[redacted]A [redacted] [redacted] Pr[redacted]uction Date: [redacted]/17/2[redacted]1 07:[redacted]

Sample [redacted] FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 09:25
Ending:

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL008PW / MD No: 0FY5 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY5 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ES[redacted]DES/P[redacted] SAM[redacted]E AN[redacted]YSIS [redacted] [redacted] [redacted]PA -[redacted]ION[redacted]ES[redacted]HEN[redacted]A [redacted] [redacted] Pr[redacted]actio[redacted] Date: [redacted]/17/[redacted]1 0[redacted]

Sample 3318 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010PW / MD No: 0FY6 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY6 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:07
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ES[redacted]DES/[redacted] SA[redacted]E AN[redacted]SIS[redacted] [redacted]PA [redacted]GIO[redacted]SES[redacted]HE[redacted]GA [redacted] Production Date: 04/17/2001 07:24

Sample 3319 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL011SS / MD No: 0FY7 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY7 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.7U | UG/KG | ALPHA-BHC |
| 2.7U | UG/KG | BETA-BHC |
| 2.7U | UG/KG | DELTA-BHC |
| 2.7U | UG/KG | GAMMA-BHC (LINDANE) |
| 4.1N | UG/KG | HEPTACHLOR |
| 2.7U | UG/KG | ALDRIN |
| 2.7U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.7U | UG/KG | ENDOSULFAN I (ALPHA) |
| 5.3U | UG/KG | DIELDRIN |
| 5.3U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 5.3U | UG/KG | ENDRIN |
| 5.3U | UG/KG | ENDOSULFAN II (BETA) |
| 5.3U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 5.3U | UG/KG | ENDOSULFAN SULFATE |
| 5.3U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 27U | UG/KG | METHOXYCHLOR |
| 5.3U | UG/KG | ENDRIN KETONE |
| 5.3U | UG/KG | ENDRIN ALDEHYDE |
| 2.7U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.7U | UG/KG | GAMMA-CHLORDANE /2 |
| 270U | UG/KG | TOXAPHENE |
| 53U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 110U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 53U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 53U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 53U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 53U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 53U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 38 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents. 2.constituents or metabolites of technical chlordane

Sample 3920 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL012SS / MD No: 0FY8 Inorg Contractor: LIBRTY

Media: SURFACE SOIL (0" - 12") D No: 0FY8 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 12:22

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.3U | UG/KG | ALPHA-BHC |
| 2.3U | UG/KG | BETA-BHC |
| 2.3U | UG/KG | DELTA-BHC |
| 2.3U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.3U | UG/KG | HEPTACHLOR |
| 2.3U | UG/KG | ALDRIN |
| 2.3U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.3U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.5U | UG/KG | DIELDRIN |
| 4.5U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.5U | UG/KG | ENDRIN |
| 4.5U | UG/KG | ENDOSULFAN II (BETA) |
| 4.5U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.5U | UG/KG | ENDOSULFAN SULFATE |
| 4.5U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 23U | UG/KG | METHOXYCHLOR |
| 4.5U | UG/KG | ENDRIN KETONE |
| 4.5U | UG/KG | ENDRIN ALDEHYDE |
| 2.3U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.3U | UG/KG | GAMMA-CHLORDANE /2 |
| 230U | UG/KG | TOXAPHENE |
| 45U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 91U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 45U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 45U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 45U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 45U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 45U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 27 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample [redacted]21 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL013SS / MD No: 0FY9 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.4U | UG/KG | ALPHA-BHC |
| 2.4U | UG/KG | BETA-BHC |
| 2.4U | UG/KG | DELTA-BHC |
| 2.4U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.4U | UG/KG | HEPTACHLOR |
| 2.4U | UG/KG | ALDRIN |
| 2.4U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.4U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.6U | UG/KG | DIELDRIN |
| 4.6U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.6U | UG/KG | ENDRIN |
| 4.6U | UG/KG | ENDOSULFAN II (BETA) |
| 4.6U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.6U | UG/KG | ENDOSULFAN SULFATE |
| 4.6U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 24U | UG/KG | METHOXYCHLOR |
| 4.6U | UG/KG | ENDRIN KETONE |
| 4.6U | UG/KG | ENDRIN ALDEHYDE |
| 2.4U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.4U | UG/KG | GAMMA-CHLORDANE /2 |
| 240U | UG/KG | TOXAPHENE |
| 46U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 93U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 46U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 46U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 46U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 46U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 46U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 29 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ES[redacted]DES/[redacted] SA[redacted]E AN[redacted]YSIS [redacted] [redacted] [redacted]PA [redacted]ION [redacted]ES[redacted]HEN[redacted]A [redacted] [redacted] Production Date: 04/17/2001 07:24

Sample 3522 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL015SB / MD No: 0FZ0 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ0 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 14:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.1U | UG/KG | ALPHA-BHC |
| 2.1U | UG/KG | BETA-BHC |
| 2.1U | UG/KG | DELTA-BHC |
| 2.1U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.1U | UG/KG | HEPTACHLOR |
| 2.1U | UG/KG | ALDRIN |
| 2.1U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.1U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.1U | UG/KG | DIELDRIN |
| 4.1U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.1U | UG/KG | ENDRIN |
| 4.1U | UG/KG | ENDOSULFAN II (BETA) |
| 4.1U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.1U | UG/KG | ENDOSULFAN SULFATE |
| 4.1U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 21U | UG/KG | METHOXYCHLOR |
| 4.1U | UG/KG | ENDRIN KETONE |
| 4.1U | UG/KG | ENDRIN ALDEHYDE |
| 2.1U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.1U | UG/KG | GAMMA-CHLORDANE /2 |
| 210U | UG/KG | TOXAPHENE |
| 41U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 84U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 41U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 41U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 41U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 41U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 41U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 21 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3523 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SB / MD No: 0FZ1 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ1 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.1U | UG/KG | ALPHA-BHC |
| 2.1U | UG/KG | BETA-BHC |
| 2.1U | UG/KG | DELTA-BHC |
| 2.1U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.1U | UG/KG | HEPTACHLOR |
| 2.1U | UG/KG | ALDRIN |
| 2.1U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.1U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.2U | UG/KG | DIELDRIN |
| 4.2U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.2U | UG/KG | ENDRIN |
| 4.2U | UG/KG | ENDOSULFAN II (BETA) |
| 4.2U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.2U | UG/KG | ENDOSULFAN SULFATE |
| 4.2U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 21U | UG/KG | METHOXYCHLOR |
| 4.2U | UG/KG | ENDRIN KETONE |
| 4.2U | UG/KG | ENDRIN ALDEHYDE |
| 2.1U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.1U | UG/KG | GAMMA-CHLORDANE /2 |
| 210U | UG/KG | TOXAPHENE |
| 42U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 84U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 42U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 42U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 42U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 42U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 42U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 22 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ES[redacted]ICIDES/PCB SAMPLE ANALYSIS [redacted] EPA [redacted]ION [redacted]ESD [redacted]HEN[redacted]A [redacted] Pr[redacted]ctio[redacted]ate[redacted]/17/[redacted]1 0[redacted]

Sample [redacted]24 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SS / MD No: 0FZ2 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ2 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.2U | UG/KG | ALPHA-BHC |
| 2.2U | UG/KG | BETA-BHC |
| 2.2U | UG/KG | DELTA-BHC |
| 2.2U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.2U | UG/KG | HEPTACHLOR |
| 2.2U | UG/KG | ALDRIN |
| 2.2U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.2U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.2U | UG/KG | DIELDRIN |
| 4.2U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.2U | UG/KG | ENDRIN |
| 4.2U | UG/KG | ENDOSULFAN II (BETA) |
| 4.2U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.2U | UG/KG | ENDOSULFAN SULFATE |
| 4.2U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 22U | UG/KG | METHOXYCHLOR |
| 4.2U | UG/KG | ENDRIN KETONE |
| 4.2U | UG/KG | ENDRIN ALDEHYDE |
| 2.2U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.2U | UG/KG | GAMMA-CHLORDANE /2 |
| 220U | UG/KG | TOXAPHENE |
| 42U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 86U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 42U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 42U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 42U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 42U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 31J | UG/KG | PCB-1260 (AROCLOR 1260) |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value: N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3325 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SB / MD No: 0FZ3 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ3 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.2U | UG/KG | ALPHA-BHC |
| 2.2U | UG/KG | BETA-BHC |
| 2.2U | UG/KG | DELTA-BHC |
| 2.2U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.2U | UG/KG | HEPTACHLOR |
| 2.2U | UG/KG | ALDRIN |
| 2.2U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.2U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.2U | UG/KG | DIELDRIN |
| 4.2U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.2U | UG/KG | ENDRIN |
| 4.2U | UG/KG | ENDOSULFAN II (BETA) |
| 4.2U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.2U | UG/KG | ENDOSULFAN SULFATE |
| 4.2U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 22U | UG/KG | METHOXYCHLOR |
| 4.2U | UG/KG | ENDRIN KETONE |
| 4.2U | UG/KG | ENDRIN ALDEHYDE |
| 2.2U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.2U | UG/KG | GAMMA-CHLORDANE /2 |
| 220U | UG/KG | TOXAPHENE |
| 42U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 86U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 42U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 42U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 42U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 42U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 31J | UG/KG | PCB-1260 (AROCLOR 1260) |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate [redacted]/17/[redacted]1 0[redacted]

Sample [redacted] FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL017SS / MD No: 0FZ4 Inorg Contractor: LIBRTY

Media: SURFACE SOIL (0" - 12") D No: 0FZ4 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 10:57

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.2U | UG/KG | ALPHA-BHC |
| 2.2U | UG/KG | BETA-BHC |
| 2.2U | UG/KG | DELTA-BHC |
| 2.2U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.2U | UG/KG | HEPTACHLOR |
| 2.2U | UG/KG | ALDRIN |
| 2.2U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.2U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.2U | UG/KG | DIELDRIN |
| 14 | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.2U | UG/KG | ENDRIN |
| 4.2U | UG/KG | ENDOSULFAN II (BETA) |
| 4.2U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.2U | UG/KG | ENDOSULFAN SULFATE |
| 9.5 | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 22U | UG/KG | METHOXYCHLOR |
| 4.2U | UG/KG | ENDRIN KETONE |
| 4.2U | UG/KG | ENDRIN ALDEHYDE |
| 2.2U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.2U | UG/KG | GAMMA-CHLORDANE /2 |
| 220U | UG/KG | TOXAPHENE |
| 42U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 86U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 42U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 42U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 42U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 42U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 42U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample [redacted]27 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SD / MD No: 0FZ5 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ5 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.7U | UG/KG | ALPHA-BHC |
| 2.7U | UG/KG | BETA-BHC |
| 2.7U | UG/KG | DELTA-BHC |
| 2.7U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.7U | UG/KG | HEPTACHLOR |
| 2.7U | UG/KG | ALDRIN |
| 2.7U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.7U | UG/KG | ENDOSULFAN I (ALPHA) |
| 5.3U | UG/KG | DIELDRIN |
| 5.3U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 5.3U | UG/KG | ENDRIN |
| 5.3U | UG/KG | ENDOSULFAN II (BETA) |
| 5.3U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 5.3U | UG/KG | ENDOSULFAN SULFATE |
| 5.3U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 27U | UG/KG | METHOXYCHLOR |
| 5.3U | UG/KG | ENDRIN KETONE |
| 5.3U | UG/KG | ENDRIN ALDEHYDE |
| 2.7U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.7U | UG/KG | GAMMA-CHLORDANE /2 |
| 270U | UG/KG | TOXAPHENE |
| 53U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 110U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 53U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 53U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 53U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 65 | UG/KG | PCB-1254 (AROCLOR 1254) |
| 53U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 38 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3528 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SW / MD No: 0FZ6 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ6 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents. 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS [redacted] EPA [redacted] REGION [redacted] ESD [redacted] THEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate [redacted]/17/[redacted]1 0[redacted]

Sample [redacted]9 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL019SD / MD No: 0FZ7 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ7 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 3.4U | UG/KG | ALPHA-BHC |
| 3.4U | UG/KG | BETA-BHC |
| 3.4U | UG/KG | DELTA-BHC |
| 3.4U | UG/KG | GAMMA-BHC (LINDANE) |
| 3.4U | UG/KG | HEPTACHLOR |
| 3.4U | UG/KG | ALDRIN |
| 3.4U | UG/KG | HEPTACHLOR EPOXIDE |
| 3.4U | UG/KG | ENDOSULFAN I (ALPHA) |
| 6.7U | UG/KG | DIELDRIN |
| 18N | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 6.7U | UG/KG | ENDRIN |
| 6.7U | UG/KG | ENDOSULFAN II (BETA) |
| 6.7U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 6.7U | UG/KG | ENDOSULFAN SULFATE |
| 9.8 | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 34U | UG/KG | METHOXYCHLOR |
| 6.7U | UG/KG | ENDRIN KETONE |
| 6.7U | UG/KG | ENDRIN ALDEHYDE |
| 3.4U | UG/KG | ALPHA-CHLORDANE /2 |
| 3.4U | UG/KG | GAMMA-CHLORDANE /2 |
| 340U | UG/KG | TOXAPHENE |
| 67U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 140U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 67U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 67U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 67U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 240 | UG/KG | PCB-1254 (AROCLOR 1254) |
| 130 | UG/KG | PCB-1260 (AROCLOR 1260) |
| 51 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3030 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:20
Ending:

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL019SW / MD No: 0FZ8 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ8 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3331 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL020SD / MD.No: 0FZ9 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 18:02
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 4.3U | UG/KG | ALPHA-BHC |
| 4.3U | UG/KG | BETA-BHC |
| 4.3U | UG/KG | DELTA-BHC |
| 4.3U | UG/KG | GAMMA-BHC (LINDANE) |
| 4.3U | UG/KG | HEPTACHLOR |
| 4.3U | UG/KG | ALDRIN |
| 4.3U | UG/KG | HEPTACHLOR EPOXIDE |
| 4.3U | UG/KG | ENDOSULFAN I (ALPHA) |
| 8.4U | UG/KG | DIELDRIN |
| 8.4U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 8.4U | UG/KG | ENDRIN |
| 8.4U | UG/KG | ENDOSULFAN II (BETA) |
| 8.4U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 8.4U | UG/KG | ENDOSULFAN SULFATE |
| 8.4U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 43U | UG/KG | METHOXYCHLOR |
| 8.4U | UG/KG | ENDRIN KETONE |
| 8.4U | UG/KG | ENDRIN ALDEHYDE |
| 4.3U | UG/KG | ALPHA-CHLORDANE /2 |
| 4.3U | UG/KG | GAMMA-CHLORDANE /2 |
| 430U | UG/KG | TOXAPHENE |
| 84U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 170U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 84U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 84U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 84U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 84U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 84U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 61 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3352 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010SW / MD No: 0G00 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G00 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:52
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS PA - ION ESD HEN A Production Date: 04/17/2001 07:24

Sample 3553 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL021SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G01
D No: 0G01

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5.2U | UG/KG | ALPHA-BHC |
| 5.2U | UG/KG | BETA-BHC |
| 5.2U | UG/KG | DELTA-BHC |
| 5.2U | UG/KG | GAMMA-BHC (LINDANE) |
| 5.2U | UG/KG | HEPTACHLOR |
| 5.2U | UG/KG | ALDRIN |
| 5.2U | UG/KG | HEPTACHLOR EPOXIDE |
| 5.2U | UG/KG | ENDOSULFAN I (ALPHA) |
| 10U | UG/KG | DIELDRIN |
| 10U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 10U | UG/KG | ENDRIN |
| 10U | UG/KG | ENDOSULFAN II (BETA) |
| 10U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 10U | UG/KG | ENDOSULFAN SULFATE |
| 10U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 52U | UG/KG | METHOXYCHLOR |
| 10U | UG/KG | ENDRIN KETONE |
| 10U | UG/KG | ENDRIN ALDEHYDE |
| 5.2U | UG/KG | ALPHA-CHLORDANE /2 |
| 5.2U | UG/KG | GAMMA-CHLORDANE /2 |
| 520U | UG/KG | TOXAPHENE |
| 100U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 210U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 100U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 100U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 100U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 100U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 100U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 68 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS [redacted] EPA - [redacted]ION [redacted]ESD [redacted]HEN [redacted]A [redacted] Pr[redacted]ctio[redacted] Date: [redacted]/17/[redacted]1 0[redacted]

Sample [redacted]4 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL021SW / MD No: 0G02 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G02 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS [redacted] PA - [redacted]ION [redacted]ES[redacted]HEM[redacted]A [redacted] Production Date: 04/17/2001 07:24

Sample 3535 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL022SD / MD No: 0G03 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G03 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:36
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 3.1U | UG/KG | ALPHA-BHC |
| 3.1U | UG/KG | BETA-BHC |
| 3.1U | UG/KG | DELTA-BHC |
| 3.1U | UG/KG | GAMMA-BHC (LINDANE) |
| 3.1U | UG/KG | HEPTACHLOR |
| 3.1U | UG/KG | ALDRIN |
| 3.1U | UG/KG | HEPTACHLOR EPOXIDE |
| 3.1U | UG/KG | ENDOSULFAN I (ALPHA) |
| 6.0U | UG/KG | DIELDRIN |
| 6.0U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 6.0U | UG/KG | ENDRIN |
| 6.0U | UG/KG | ENDOSULFAN II (BETA) |
| 6.0U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 6.0U | UG/KG | ENDOSULFAN SULFATE |
| 6.0U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 31U | UG/KG | METHOXYCHLOR |
| 6.0U | UG/KG | ENDRIN KETONE |
| 6.0U | UG/KG | ENDRIN ALDEHYDE |
| 3.1U | UG/KG | ALPHA-CHLORDANE /2 |
| 3.1U | UG/KG | GAMMA-CHLORDANE /2 |
| 310U | UG/KG | TOXAPHENE |
| 60U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 120U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 60U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 60U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 60U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 60U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 60U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 45 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS [redacted] EPA - [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate[redacted]/17/[redacted]1 0[redacted]

Sample [redacted] FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:27
Ending:

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL022SW / MD No: 0G04 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G04 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-Interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ESTICIDES/PCB SAMPLE ANALYSIS [redacted] PA - ION ESD HEN A [redacted] Production Date: 04/17/2001 07:24

Sample 3337 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL023SD / MD No: 0G05 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G05 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 14:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 3.5U | UG/KG | ALPHA-BHC |
| 3.5U | UG/KG | BETA-BHC |
| 3.5U | UG/KG | DELTA-BHC |
| 3.5U | UG/KG | GAMMA-BHC (LINDANE) |
| 3.5U | UG/KG | HEPTACHLOR |
| 3.5U | UG/KG | ALDRIN |
| 3.5U | UG/KG | HEPTACHLOR EPOXIDE |
| 3.5U | UG/KG | ENDOSULFAN I (ALPHA) |
| 6.8U | UG/KG | DIELDRIN |
| 6.8U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 6.8U | UG/KG | ENDRIN |
| 6.8U | UG/KG | ENDOSULFAN II (BETA) |
| 6.8U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 6.8U | UG/KG | ENDOSULFAN SULFATE |
| 6.8U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 35U | UG/KG | METHOXYCHLOR |
| 6.8U | UG/KG | ENDRIN KETONE |
| 6.8U | UG/KG | ENDRIN ALDEHYDE |
| 3.5U | UG/KG | ALPHA-CHLORDANE /2 |
| 3.5U | UG/KG | GAMMA-CHLORDANE /2 |
| 350U | UG/KG | TOXAPHENE |
| 68U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 140U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 68U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 68U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 68U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 36J | UG/KG | PCB-1254 (AROCLOR 1254) |
| 68U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 52 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

ES[redacted]ICIDES/[redacted] SAM[redacted]E AN[redacted]YSIS [redacted] [redacted] [redacted]PA - [redacted]ION [redacted]ESD[redacted]HEN[redacted]A [redacted] [redacted] Production Date: 04/17/2001 07:24

Sample: 3338 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL023SW /
Media: SURFACE WATER

Case No: 29011
MD No: 0G06
D No: 0G06

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3[redacted]9 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SD / MD No: 0G07 Inorg Contractor: LIBRTY
Media: SEDIMENT D.No: 0G07 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:11
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.4U | UG/KG | ALPHA-BHC |
| 2.4U | UG/KG | BETA-BHC |
| 2.4U | UG/KG | DELTA-BHC |
| 2.4U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.4U | UG/KG | HEPTACHLOR |
| 2.4U | UG/KG | ALDRIN |
| 2.4U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.4U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.7U | UG/KG | DIELDRIN |
| 4.7U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.7U | UG/KG | ENDRIN |
| 4.7U | UG/KG | ENDOSULFAN II (BETA) |
| 4.7U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.7U | UG/KG | ENDOSULFAN SULFATE |
| 4.7U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 24U | UG/KG | METHOXYCHLOR |
| 4.7U | UG/KG | ENDRIN KETONE |
| 4.7U | UG/KG | ENDRIN ALDEHYDE |
| 2.4U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.4U | UG/KG | GAMMA-CHLORDANE /2 |
| 240U | UG/KG | TOXAPHENE |
| 47U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 96U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 47U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 47U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 47U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 47U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 47U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 30 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample: 3540 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SW / MD No: 0G08 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G08 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3941 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SD / MD No: 0G09
Media: SEDIMENT D No: 0G09

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.3U | UG/KG | ALPHA-BHC |
| 2.3U | UG/KG | BETA-BHC |
| 2.3U | UG/KG | DELTA-BHC |
| 2.3U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.3U | UG/KG | HEPTACHLOR |
| 2.3U | UG/KG | ALDRIN |
| 2.3U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.3U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.5U | UG/KG | DIELDRIN |
| 4.5U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.5U | UG/KG | ENDRIN |
| 4.5U | UG/KG | ENDOSULFAN II (BETA) |
| 4.5U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.5U | UG/KG | ENDOSULFAN SULFATE |
| 4.5U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 23U | UG/KG | METHOXYCHLOR |
| 4.5U | UG/KG | ENDRIN KETONE |
| 4.5U | UG/KG | ENDRIN ALDEHYDE |
| 2.3U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.3U | UG/KG | GAMMA-CHLORDANE /2 |
| 230U | UG/KG | TOXAPHENE |
| 45U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 91U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 45U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 45U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 45U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 45U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 45U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 27 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3542 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SW / MD No: 0G10 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G10 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-Interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3043 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL026SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G11
D No: 0G11

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 6.4U | UG/KG | ALPHA-BHC |
| 6.4U | UG/KG | BETA-BHC |
| 6.4U | UG/KG | DELTA-BHC |
| 6.4U | UG/KG | GAMMA-BHC (LINDANE) |
| 6.4U | UG/KG | HEPTACHLOR |
| 6.4U | UG/KG | ALDRIN |
| 6.4U | UG/KG | HEPTACHLOR EPOXIDE |
| 6.4U | UG/KG | ENDOSULFAN I (ALPHA) |
| 12U | UG/KG | DIELDRIN |
| 12U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 12U | UG/KG | ENDRIN |
| 12U | UG/KG | ENDOSULFAN II (BETA) |
| 12U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 12U | UG/KG | ENDOSULFAN SULFATE |
| 12U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 64U | UG/KG | METHOXYCHLOR |
| 12U | UG/KG | ENDRIN KETONE |
| 12U | UG/KG | ENDRIN ALDEHYDE |
| 6.4U | UG/KG | ALPHA-CHLORDANE /2 |
| 6.4U | UG/KG | GAMMA-CHLORDANE /2 |
| 640U | UG/KG | TOXAPHENE |
| 120U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 250U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 120U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 120U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 120U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 120U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 120U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 74 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3544 FY 2001 Project: 01-0401

PESTICIDES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SW / MD No: 0G12 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G12 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents. 2.constituents or metabolites of technical chlordane

Sample [redacted]7 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL125SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G17
D No: 0G17

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.5U | UG/KG | ALPHA-BHC |
| 2.5U | UG/KG | BETA-BHC |
| 2.5U | UG/KG | DELTA-BHC |
| 2.5U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.5U | UG/KG | HEPTACHLOR |
| 2.5U | UG/KG | ALDRIN |
| 2.5U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.5U | UG/KG | ENDOSULFAN I (ALPHA) |
| 4.9U | UG/KG | DIELDRIN |
| 4.9U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 4.9U | UG/KG | ENDRIN |
| 4.9U | UG/KG | ENDOSULFAN II (BETA) |
| 4.9U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 4.9U | UG/KG | ENDOSULFAN SULFATE |
| 4.9U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 25U | UG/KG | METHOXYCHLOR |
| 4.9U | UG/KG | ENDRIN KETONE |
| 4.9U | UG/KG | ENDRIN ALDEHYDE |
| 2.5U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.5U | UG/KG | GAMMA-CHLORDANE /2 |
| 250U | UG/KG | TOXAPHENE |
| 49U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 100U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 49U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 49U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 49U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 28J | UG/KG | PCB-1254 (AROCLOR 1254) |
| 49U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 34 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3[redacted]8 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL125SW / MD No: 0G18 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G18 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 3049 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SD / MD No: 0G19 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G19 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:54
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2.7U | UG/KG | ALPHA-BHC |
| 2.7U | UG/KG | BETA-BHC |
| 2.7U | UG/KG | DELTA-BHC |
| 2.7U | UG/KG | GAMMA-BHC (LINDANE) |
| 2.7U | UG/KG | HEPTACHLOR |
| 2.7U | UG/KG | ALDRIN |
| 2.7U | UG/KG | HEPTACHLOR EPOXIDE |
| 2.7U | UG/KG | ENDOSULFAN I (ALPHA) |
| 5.2U | UG/KG | DIELDRIN |
| 5.2U | UG/KG | 4,4'-DDE (P,P'-DDE) |
| 5.2U | UG/KG | ENDRIN |
| 5.2U | UG/KG | ENDOSULFAN II (BETA) |
| 5.2U | UG/KG | 4,4'-DDD (P,P'-DDD) |
| 5.2U | UG/KG | ENDOSULFAN SULFATE |
| 5.2U | UG/KG | 4,4'-DDT (P,P'-DDT) |
| 27U | UG/KG | METHOXYCHLOR |
| 5.2U | UG/KG | ENDRIN KETONE |
| 5.2U | UG/KG | ENDRIN ALDEHYDE |
| 2.7U | UG/KG | ALPHA-CHLORDANE /2 |
| 2.7U | UG/KG | GAMMA-CHLORDANE /2 |
| 270U | UG/KG | TOXAPHENE |
| 52U | UG/KG | PCB-1016 (AROCLOR 1016) |
| 110U | UG/KG | PCB-1221 (AROCLOR 1221) |
| 52U | UG/KG | PCB-1232 (AROCLOR 1232) |
| 52U | UG/KG | PCB-1242 (AROCLOR 1242) |
| 52U | UG/KG | PCB-1248 (AROCLOR 1248) |
| 52U | UG/KG | PCB-1254 (AROCLOR 1254) |
| 52U | UG/KG | PCB-1260 (AROCLOR 1260) |
| 37 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 0 FY 2001 Project: 01-0401

**PESTICIDES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SW / MD No: 0G20 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G20 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:49
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 0.010UJ | UG/L | ALPHA-BHC |
| 0.010U | UG/L | BETA-BHC |
| 0.010UJ | UG/L | DELTA-BHC |
| 0.010UJ | UG/L | GAMMA-BHC (LINDANE) |
| 0.010U | UG/L | HEPTACHLOR |
| 0.010U | UG/L | ALDRIN |
| 0.010U | UG/L | HEPTACHLOR EPOXIDE |
| 0.010U | UG/L | ENDOSULFAN I (ALPHA) |
| 0.020U | UG/L | DIELDRIN |
| 0.020U | UG/L | 4,4'-DDE (P,P'-DDE) |
| 0.020U | UG/L | ENDRIN |
| 0.020UR | UG/L | ENDOSULFAN II (BETA) |
| 0.020U | UG/L | 4,4'-DDD (P,P'-DDD) |
| 0.020U | UG/L | ENDOSULFAN SULFATE |
| 0.020U | UG/L | 4,4'-DDT (P,P'-DDT) |
| 0.10U | UG/L | METHOXYCHLOR |
| 0.020U | UG/L | ENDRIN KETONE |
| 0.020U | UG/L | ENDRIN ALDEHYDE |
| 0.010U | UG/L | ALPHA-CHLORDANE /2 |
| 0.010U | UG/L | GAMMA-CHLORDANE /2 |
| 1.0U | UG/L | TOXAPHENE |
| 0.20U | UG/L | PCB-1016 (AROCLOR 1016) |
| 0.40U | UG/L | PCB-1221 (AROCLOR 1221) |
| 0.20U | UG/L | PCB-1232 (AROCLOR 1232) |
| 0.20U | UG/L | PCB-1242 (AROCLOR 1242) |
| 0.20U | UG/L | PCB-1248 (AROCLOR 1248) |
| 0.20U | UG/L | PCB-1254 (AROCLOR 1254) |
| 0.20U | UG/L | PCB-1260 (AROCLOR 1260) |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 4**

**Science and Ecosystem Support Division**
**980 College Station Road**
**Athens, Georgia 30605-2720**

RECEIVED
APR 27 2001
SUPERFUND SECTION

**MEMORANDUM**

Date: 04/17/2001

Subject: Results of EXTRACTABLES Sample Analysis
01-0401 Union County Landfill
Monroe, NC

From: Goddard, Denise

To: Bennett, Giezelle

CC: Dan LaMontagne
NCDENR

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

**ATTACHMENT**

Sample [redacted]1 FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL001MW / MD No: 0FX9 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FX9 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]1 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:55
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL001MW / MD No: 0FX9 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FX9 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 96J | UG/L | 25 UNKNOWN COMPOUNDS |
| 2NJ | UG/L | BENZENESULFONAMIDE, 2-METHYL |
| 3NJ | UG/L | BENZENESULFONAMIDE, N-BUTYL- |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]2 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL002MW / MD No: 0FY0 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY0 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
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R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] [redacted] [redacted] PA - [redacted]ION [redacted]ESD [redacted]HEN [redacted]A [redacted] [redacted] Production Date: [redacted]/17/20[redacted]1 07:[redacted]

Sample [redacted]3 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL003MW / MD No: 0FY1 Inorg Contractor: LIBRTY

Media: GROUNDWATER D No: 0FY1 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 10:40

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
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Sample [redacted]3 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL003MW / MD No: 0FY1 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY1 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 180J | UG/L | 23 UNKNOWN COMPOUNDS |
| 4NJ | UG/L | TRIETHYL PHOSPHATE |
| 52NJ | UG/L | ETHOSUXIMIDE |
| 6NJ | UG/L | DIETHYLTOLUAMIDE |
| 3NJ | UG/L | BENZENESULFONAMIDE, 2-METHYL |
| 29NJ | UG/L | 2 (3H) - BENZOTHIAZOLONE |
| 6NJ | UG/L | BENZENESULFONAMIDE, N-BUTYL- |
| 4NJ | UG/L | BENTAZONE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] PA - [redacted]ION [redacted]ESD [redacted]HEN [redacted]A [redacted] Production Date: [redacted]/17/[redacted]1 01:[redacted]

Sample [redacted]4 FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL004MW / MD No: 0FY2 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY2 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL005MW / MD No: 0FY3 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY3 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] ATHEN[redacted]A [redacted] Pr[redacted]ctio[redacted]ate[redacted]/17[redacted]1 0[redacted]

Sample [redacted]5 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:50
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL005MW / MD No: 0FY3 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY3 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5J | UG/L | 2 UNKNOWN COMPOUNDS |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
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R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3516 FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL006PW / MD No: 0FY4 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY4 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 08:48
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted]7 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL008PW / MD No: 0FY5 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY5 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 09:25
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: [redacted]

Sample 3318 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010PW / MD No: 0FY6 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY6 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:07
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]Date [redacted]/17/[redacted]1 07:[redacted]

Sample 3349 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL011SS / MD No: 0FY7 Inorg Contractor: LIBRTY

Media: SURFACE SOIL (0" - 12") D No: 0FY7 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 12:55

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 860J | UG/KG | BENZALDEHYDE |
| 530U | UG/KG | PHENOL |
| 530U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 530U | UG/KG | 2-CHLOROPHENOL |
| 530U | UG/KG | 2-METHYLPHENOL |
| 530U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 530U | UG/KG | ACETOPHENONE |
| 530U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 530U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 530U | UG/KG | HEXACHLOROETHANE |
| 530U | UG/KG | NITROBENZENE |
| 530U | UG/KG | ISOPHORONE |
| 530U | UG/KG | 2-NITROPHENOL |
| 530U | UG/KG | 2,4-DIMETHYLPHENOL |
| 530U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 530U | UG/KG | 2,4-DICHLOROPHENOL |
| 530U | UG/KG | NAPHTHALENE |
| 530U | UG/KG | 4-CHLOROANILINE |
| 530U | UG/KG | HEXACHLOROBUTADIENE |
| 530U | UG/KG | CAPROLACTAM |
| 530U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 530U | UG/KG | 2-METHYLNAPHTHALENE |
| 530U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 530U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1300U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 530U | UG/KG | 1,1-BIPHENYL |
| 530U | UG/KG | 2-CHLORONAPHTHALENE |
| 1300U | UG/KG | 2-NITROANILINE |
| 530U | UG/KG | DIMETHYL PHTHALATE |
| 530U | UG/KG | 2,6-DINITROTOLUENE |
| 530U | UG/KG | ACENAPHTHYLENE |
| 1300U | UG/KG | 3-NITROANILINE |
| 530U | UG/KG | ACENAPHTHENE |
| 1300U | UG/KG | 2,4-DINITROPHENOL |
| 1300U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 530U | UG/KG | DIBENZOFURAN |
| 530U | UG/KG | 2,4-DINITROTOLUENE |
| 530U | UG/KG | DIETHYL PHTHALATE |
| 530U | UG/KG | FLUORENE |
| 530U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1300U | UG/KG | 4-NITROANILINE |
| 1300U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 530U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 530U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 530U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 530U | UG/KG | ATRAZINE |
| 1300U | UG/KG | PENTACHLOROPHENOL |
| 530U | UG/KG | PHENANTHRENE |
| 530U | UG/KG | ANTHRACENE |
| 530U | UG/KG | CARBAZOLE |
| 530U | UG/KG | DI-N-BUTYLPHTHALATE |
| 530U | UG/KG | FLUORANTHENE |
| 530U | UG/KG | PYRENE |
| 530U | UG/KG | BENZYL BUTYL PHTHALATE |
| 530U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 530U | UG/KG | BENZO(A)ANTHRACENE |
| 530U | UG/KG | CHRYSENE |
| 530U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 530U | UG/KG | DI-N-OCTYLPHTHALATE |
| 530U | UG/KG | BENZO(B)FLUORANTHENE |
| 530U | UG/KG | BENZO(K)FLUORANTHENE |
| 530U | UG/KG | BENZO-A-PYRENE |
| 530U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 530U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 530UJ | UG/KG | BENZO(GHI)PERYLENE |
| 38 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL011SS / MD No: 0FY7 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY7 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 20000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 9800J | UG/KG | 13 UNKNOWN COMPOUNDS |
| 1200J | UG/KG | (R) - (-)-2,2-DIMETHYL-1,3-DIO |
| 1100JN | UG/KG | 2 UNKNOWN FATTY ACIDS |
| 750NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 700NJ | UG/KG | 9-HEXADECENOIC ACID |
| 2500NJ | UG/KG | HEXADECANOIC ACID |
| 1000NJ | UG/KG | 9-OCTADECENOIC ACID, METHYL |
| 4500NJ | UG/KG | OLEIC ACID |
| 420NJ | UG/KG | 13-OCTADECENAL |
| 4100NJ | UG/KG | CINNAMYL CINNAMATE |
| 550NJ | UG/KG | 1-DOTRIACONTANOL |
| 370NJ | UG/KG | HEXADECANAL |
| 1400NJ | UG/KG | PENTADECANAL- |
| 910NJ | UG/KG | OXIRANE, HEXADECYL- |
| 3700NJ | UG/KG | .GAMMA.-SITOSTEROL |
| 1700NJ | UG/KG | .ALPHA.-AMYRIN |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3320 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL012SS / MD No: 0FY8
Media: SURFACE SOIL (0" - 12") D No: 0FY8

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:22
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 460J | UG/KG | BENZALDEHYDE |
| 450U | UG/KG | PHENOL |
| 450U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 450U | UG/KG | 2-CHLOROPHENOL |
| 450U | UG/KG | 2-METHYLPHENOL |
| 450U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 450U | UG/KG | ACETOPHENONE |
| 450U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 450U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 450U | UG/KG | HEXACHLOROETHANE |
| 450U | UG/KG | NITROBENZENE |
| 450U | UG/KG | ISOPHORONE |
| 450U | UG/KG | 2-NITROPHENOL |
| 450U | UG/KG | 2,4-DIMETHYLPHENOL |
| 450U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 450U | UG/KG | 2,4-DICHLOROPHENOL |
| 450U | UG/KG | NAPHTHALENE |
| 450U | UG/KG | 4-CHLOROANILINE |
| 450U | UG/KG | HEXACHLOROBUTADIENE |
| 450U | UG/KG | CAPROLACTAM |
| 450U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 450U | UG/KG | 2-METHYLNAPHTHALENE |
| 450U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 450U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 450U | UG/KG | 1,1-BIPHENYL |
| 450U | UG/KG | 2-CHLORONAPHTHALENE |
| 1100U | UG/KG | 2-NITROANILINE |
| 450U | UG/KG | DIMETHYL PHTHALATE |
| 450U | UG/KG | 2,6-DINITROTOLUENE |
| 450U | UG/KG | ACENAPHTHYLENE |
| 1100U | UG/KG | 3-NITROANILINE |
| 450U | UG/KG | ACENAPHTHENE |
| 1100U | UG/KG | 2,4-DINITROPHENOL |
| 1100U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 450U | UG/KG | DIBENZOFURAN |
| 450U | UG/KG | 2,4-DINITROTOLUENE |
| 450U | UG/KG | DIETHYL PHTHALATE |
| 450U | UG/KG | FLUORENE |
| 450U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1100U | UG/KG | 4-NITROANILINE |
| 1100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 450U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 450U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 450U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 450U | UG/KG | ATRAZINE |
| 1100U | UG/KG | PENTACHLOROPHENOL |
| 450U | UG/KG | PHENANTHRENE |
| 450U | UG/KG | ANTHRACENE |
| 450U | UG/KG | CARBAZOLE |
| 450U | UG/KG | DI-N-BUTYLPHTHALATE |
| 450U | UG/KG | FLUORANTHENE |
| 450U | UG/KG | PYRENE |
| 450U | UG/KG | BENZYL BUTYL PHTHALATE |
| 450U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 450U | UG/KG | BENZO(A)ANTHRACENE |
| 450U | UG/KG | CHRYSENE |
| 450U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 450U | UG/KG | DI-N-OCTYLPHTHALATE |
| 450U | UG/KG | BENZO(B)FLUORANTHENE |
| 450U | UG/KG | BENZO(K)FLUORANTHENE |
| 450U | UG/KG | BENZO-A-PYRENE |
| 450U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 450U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 450UJ | UG/KG | BENZO(GHI)PERYLENE |
| 27 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3320 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL012SS / MD No: 0FY8 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY8 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:22
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 21000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 7500J | UG/KG | 15 UNKNOWN COMPOUNDS |
| 370NJ | UG/KG | BENZOIC ACID |
| 130JN | UG/KG | UNKNOWN ALKENE/ALCOHOL |
| 180NJ | UG/KG | NAPHTHALENE, 1,2,3,5,6,8A-HE |
| 280JN | UG/KG | 2 UNKNOWN FATTY ACIDS |
| 270NJ | UG/KG | PENTADECANOIC ACID |
| 220NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 220NJ | UG/KG | 15-OCTADECENOIC ACID, METHYL |
| 1100NJ | UG/KG | OLEIC ACID |
| 130NJ | UG/KG | BORNYL CINNAMATE 2 |
| 1100NJ | UG/KG | CINNAMYL CINNAMATE |
| 270NJ | UG/KG | 1-NONADECANOL |
| 800NJ | UG/KG | .GAMMA.-SITOSTEROL |
| 570NJ | UG/KG | HEXADECANOIC ACID |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3321 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL013SS / MD No: 0FY9 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 460UJ | UG/KG | BENZALDEHYDE |
| 460U | UG/KG | PHENOL |
| 460U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 460U | UG/KG | 2-CHLOROPHENOL |
| 460U | UG/KG | 2-METHYLPHENOL |
| 460U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 460U | UG/KG | ACETOPHENONE |
| 460U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 460U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 460U | UG/KG | HEXACHLOROETHANE |
| 460U | UG/KG | NITROBENZENE |
| 460U | UG/KG | ISOPHORONE |
| 460U | UG/KG | 2-NITROPHENOL |
| 460U | UG/KG | 2,4-DIMETHYLPHENOL |
| 460U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 460U | UG/KG | 2,4-DICHLOROPHENOL |
| 460U | UG/KG | NAPHTHALENE |
| 460U | UG/KG | 4-CHLOROANILINE |
| 460U | UG/KG | HEXACHLOROBUTADIENE |
| 460U | UG/KG | CAPROLACTAM |
| 460U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 460U | UG/KG | 2-METHYLNAPHTHALENE |
| 460U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 460U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1200U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 460U | UG/KG | 1,1-BIPHENYL |
| 460U | UG/KG | 2-CHLORONAPHTHALENE |
| 1200U | UG/KG | 2-NITROANILINE |
| 460U | UG/KG | DIMETHYL PHTHALATE |
| 460U | UG/KG | 2,6-DINITROTOLUENE |
| 460U | UG/KG | ACENAPHTHYLENE |
| 1200U | UG/KG | 3-NITROANILINE |
| 460U | UG/KG | ACENAPHTHENE |
| 1200U | UG/KG | 2,4-DINITROPHENOL |
| 1200U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 460U | UG/KG | DIBENZOFURAN |
| 460U | UG/KG | 2,4-DINITROTOLUENE |
| 460U | UG/KG | DIETHYL PHTHALATE |
| 460U | UG/KG | FLUORENE |
| 460U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1200U | UG/KG | 4-NITROANILINE |
| 1200U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 460U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 460U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 460U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 460U | UG/KG | ATRAZINE |
| 1200U | UG/KG | PENTACHLOROPHENOL |
| 460U | UG/KG | PHENANTHRENE |
| 460U | UG/KG | ANTHRACENE |
| 460U | UG/KG | CARBAZOLE |
| 460U | UG/KG | DI-N-BUTYLPHTHALATE |
| 460U | UG/KG | FLUORANTHENE |
| 460U | UG/KG | PYRENE |
| 460U | UG/KG | BENZYL BUTYL PHTHALATE |
| 460U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 460U | UG/KG | BENZO(A)ANTHRACENE |
| 460U | UG/KG | CHRYSENE |
| 460U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 460U | UG/KG | DI-N-OCTYLPHTHALATE |
| 460U | UG/KG | BENZO(B)FLUORANTHENE |
| 460U | UG/KG | BENZO(K)FLUORANTHENE |
| 460U | UG/KG | BENZO-A-PYRENE |
| 460U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 460U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 460UJ | UG/KG | BENZO(GHI)PERYLENE |
| 29 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 33 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL013SS / MD No: 0FY9 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:10
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 20000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 2900J | UG/KG | 10 UNKNOWN COMPOUNDS |
| 100JN | UG/KG | UNKNOWN FATTY ACID |
| 230NJ | UG/KG | HEXADECANOIC ACID |
| 120NJ | UG/KG | OCTADECANOIC ACID |
| 180JN | UG/KG | UNKNOWN ALDEHYDE |
| 770NJ | UG/KG | CHOLESTEROL |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS [redacted] PA - [redacted] ION [redacted] ES[redacted] HEN[redacted] A [redacted] Production Date: 04/17/2001 07:18

Sample 3[redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL015SB / MD No: 0FZ0 Inorg Contractor: LIBRTY

Media: SUBSURFACE SOIL (> 12") D No: 0FZ0 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 14:55

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 420UJ | UG/KG | BENZALDEHYDE |
| 420U | UG/KG | PHENOL |
| 420U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 420U | UG/KG | 2-CHLOROPHENOL |
| 420U | UG/KG | 2-METHYLPHENOL |
| 420U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 420U | UG/KG | ACETOPHENONE |
| 420U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 420U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 420U | UG/KG | HEXACHLOROETHANE |
| 420U | UG/KG | NITROBENZENE |
| 420U | UG/KG | ISOPHORONE |
| 420U | UG/KG | 2-NITROPHENOL |
| 420U | UG/KG | 2,4-DIMETHYLPHENOL |
| 420U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 420U | UG/KG | 2,4-DICHLOROPHENOL |
| 420U | UG/KG | NAPHTHALENE |
| 420U | UG/KG | 4-CHLOROANILINE |
| 420U | UG/KG | HEXACHLOROBUTADIENE |
| 420U | UG/KG | CAPROLACTAM |
| 420U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 420U | UG/KG | 2-METHYLNAPHTHALENE |
| 420U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 420U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1000U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 420U | UG/KG | 1,1-BIPHENYL |
| 420U | UG/KG | 2-CHLORONAPHTHALENE |
| 1000U | UG/KG | 2-NITROANILINE |
| 420U | UG/KG | DIMETHYL PHTHALATE |
| 420U | UG/KG | 2,6-DINITROTOLUENE |
| 420U | UG/KG | ACENAPHTHYLENE |
| 1000U | UG/KG | 3-NITROANILINE |
| 420U | UG/KG | ACENAPHTHENE |
| 1000U | UG/KG | 2,4-DINITROPHENOL |
| 1000U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 420U | UG/KG | DIBENZOFURAN |
| 420U | UG/KG | 2,4-DINITROTOLUENE |
| 420U | UG/KG | DIETHYL PHTHALATE |
| 420U | UG/KG | FLUORENE |
| 420U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1000U | UG/KG | 4-NITROANILINE |
| 1000U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 420U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 420U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 420U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 420U | UG/KG | ATRAZINE |
| 1000U | UG/KG | PENTACHLOROPHENOL |
| 420U | UG/KG | PHENANTHRENE |
| 420U | UG/KG | ANTHRACENE |
| 420U | UG/KG | CARBAZOLE |
| 420U | UG/KG | DI-N-BUTYLPHTHALATE |
| 420U | UG/KG | FLUORANTHENE |
| 420U | UG/KG | PYRENE |
| 420U | UG/KG | BENZYL BUTYL PHTHALATE |
| 420U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 420U | UG/KG | BENZO(A)ANTHRACENE |
| 420U | UG/KG | CHRYSENE |
| 420U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 420U | UG/KG | DI-N-OCTYLPHTHALATE |
| 420U | UG/KG | BENZO(B)FLUORANTHENE |
| 420U | UG/KG | BENZO(K)FLUORANTHENE |
| 420U | UG/KG | BENZO-A-PYRENE |
| 420U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 420U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 420U | UG/KG | BENZO(GHI)PERYLENE |
| 21 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL015SB / MD No: 0FZ0 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ0 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 14:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 19000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 3700J | UG/KG | 16 UNKNOWN COMPO8UNDS |
| 110NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 330NJ | UG/KG | HEXADECANOIC ACID |
| 110NJ | UG/KG | HEPTADECANOIC ACID |
| 570NJ | UG/KG | 7-OCTADECENOIC ACID, METHYL |
| 3200NJ | UG/KG | OLEIC ACID |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] [redacted] [redacted] PA - [redacted] ION [redacted] ESI [redacted] HEN [redacted] A [redacted] [redacted] Production Date: [redacted]/17/[redacted] 01:[redacted]

Sample [redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SB / MD No: 0FZ1 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ1 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 420UJ | UG/KG | BENZALDEHYDE |
| 420U | UG/KG | PHENOL |
| 420U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 420U | UG/KG | 2-CHLOROPHENOL |
| 420U | UG/KG | 2-METHYLPHENOL |
| 420U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 420U | UG/KG | ACETOPHENONE |
| 420U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 420U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 420U | UG/KG | HEXACHLOROETHANE |
| 420U | UG/KG | NITROBENZENE |
| 420U | UG/KG | ISOPHORONE |
| 420U | UG/KG | 2-NITROPHENOL |
| 420U | UG/KG | 2,4-DIMETHYLPHENOL |
| 420U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 420U | UG/KG | 2,4-DICHLOROPHENOL |
| 420U | UG/KG | NAPHTHALENE |
| 420U | UG/KG | 4-CHLOROANILINE |
| 420U | UG/KG | HEXACHLOROBUTADIENE |
| 420U | UG/KG | CAPROLACTAM |
| 420U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 420U | UG/KG | 2-METHYLNAPHTHALENE |
| 420U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 420U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 420U | UG/KG | 1,1-BIPHENYL |
| 420U | UG/KG | 2-CHLORONAPHTHALENE |
| 1100U | UG/KG | 2-NITROANILINE |
| 420U | UG/KG | DIMETHYL PHTHALATE |
| 420U | UG/KG | 2,6-DINITROTOLUENE |
| 420U | UG/KG | ACENAPHTHYLENE |
| 1100U | UG/KG | 3-NITROANILINE |
| 420U | UG/KG | ACENAPHTHENE |
| 1100U | UG/KG | 2,4-DINITROPHENOL |
| 1100U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 420U | UG/KG | DIBENZOFURAN |
| 420U | UG/KG | 2,4-DINITROTOLUENE |
| 420U | UG/KG | DIETHYL PHTHALATE |
| 420U | UG/KG | FLUORENE |
| 420U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1100U | UG/KG | 4-NITROANILINE |
| 1100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 420U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 420U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 420U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 420U | UG/KG | ATRAZINE |
| 1100U | UG/KG | PENTACHLOROPHENOL |
| 420U | UG/KG | PHENANTHRENE |
| 420U | UG/KG | ANTHRACENE |
| 420U | UG/KG | CARBAZOLE |
| 420U | UG/KG | DI-N-BUTYLPHTHALATE |
| 420U | UG/KG | FLUORANTHENE |
| 420U | UG/KG | PYRENE |
| 420U | UG/KG | BENZYL BUTYL PHTHALATE |
| 420U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 420U | UG/KG | BENZO(A)ANTHRACENE |
| 420U | UG/KG | CHRYSENE |
| 760 | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 420U | UG/KG | DI-N-OCTYLPHTHALATE |
| 420U | UG/KG | BENZO(B)FLUORANTHENE |
| 420U | UG/KG | BENZO(K)FLUORANTHENE |
| 420U | UG/KG | BENZO-A-PYRENE |
| 420U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 420U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 420UJ | UG/KG | BENZO(GHI)PERYLENE |
| 22 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION IV ESD ATHENS GA [redacted] Pr[redacted]ctio[redacted]ate[redacted]17/[redacted] 07[redacted]

Sample 3[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SB / MD No: 0FZ1 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ1 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 4900J | UG/KG | 3 UNKNOWN COMPOUNDS |
| 200JN | UG/KG | UNKNOWN FATTY ACID |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SS / MD No: 0FZ2 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ2 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 340J | UG/KG | BENZALDEHYDE |
| 430U | UG/KG | PHENOL |
| 430U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 430U | UG/KG | 2-CHLOROPHENOL |
| 430U | UG/KG | 2-METHYLPHENOL |
| 430U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 430U | UG/KG | ACETOPHENONE |
| 430U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 430U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 430U | UG/KG | HEXACHLOROETHANE |
| 430U | UG/KG | NITROBENZENE |
| 430U | UG/KG | ISOPHORONE |
| 430U | UG/KG | 2-NITROPHENOL |
| 430U | UG/KG | 2,4-DIMETHYLPHENOL |
| 430U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 430U | UG/KG | 2,4-DICHLOROPHENOL |
| 430U | UG/KG | NAPHTHALENE |
| 430U | UG/KG | 4-CHLOROANILINE |
| 430U | UG/KG | HEXACHLOROBUTADIENE |
| 430U | UG/KG | CAPROLACTAM |
| 430U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 430U | UG/KG | 2-METHYLNAPHTHALENE |
| 430U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 430U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 430U | UG/KG | 1,1-BIPHENYL |
| 430U | UG/KG | 2-CHLORONAPHTHALENE |
| 1100U | UG/KG | 2-NITROANILINE |
| 430U | UG/KG | DIMETHYL PHTHALATE |
| 430U | UG/KG | 2,6-DINITROTOLUENE |
| 430U | UG/KG | ACENAPHTHYLENE |
| 1100U | UG/KG | 3-NITROANILINE |
| 430U | UG/KG | ACENAPHTHENE |
| 1100U | UG/KG | 2,4-DINITROPHENOL |
| 1100U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 430U | UG/KG | DIBENZOFURAN |
| 430U | UG/KG | 2,4-DINITROTOLUENE |
| 430U | UG/KG | DIETHYL PHTHALATE |
| 430U | UG/KG | FLUORENE |
| 430U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1100U | UG/KG | 4-NITROANILINE |
| 1100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 430U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 430U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 430U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 430U | UG/KG | ATRAZINE |
| 1100U | UG/KG | PENTACHLOROPHENOL |
| 110J | UG/KG | PHENANTHRENE |
| 430U | UG/KG | ANTHRACENE |
| 430U | UG/KG | CARBAZOLE |
| 430U | UG/KG | DI-N-BUTYLPHTHALATE |
| 330J | UG/KG | FLUORANTHENE |
| 240J | UG/KG | PYRENE |
| 430U | UG/KG | BENZYL BUTYL PHTHALATE |
| 430U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 54J | UG/KG | BENZO(A)ANTHRACENE |
| 140J | UG/KG | CHRYSENE |
| 430U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 430U | UG/KG | DI-N-OCTYLPHTHALATE |
| 65J | UG/KG | BENZO(B)FLUORANTHENE |
| 60J | UG/KG | BENZO(K)FLUORANTHENE |
| 430U | UG/KG | BENZO-A-PYRENE |
| 430U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 430U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 430UJ | UG/KG | BENZO(GHI)PERYLENE |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate[redacted]17/[redacted] 07[redacted]

Sample 3[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SS / MD No: 0FZ2 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ2 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 23000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 4300J | UG/KG | 16 UNKNOWN COMPOUNDS |
| 89NJ | UG/KG | BENZOIC ACID |
| 90NJ | UG/KG | BENZALDEHYDE, 4-HYDROXY- |
| 320JN | UG/KG | 2 UNKNOWN FATTY ACIDS |
| 110NJ | UG/KG | METHYL 9-METHYLTETRADECANOAT |
| 530NJ | UG/KG | HEXADECANOIC ACID |
| 180NJ | UG/KG | OLEIC ACID |
| 130NJ | UG/KG | 16-OCTADECENAL |
| 550J | UG/KG | 4 UNKNOWN PHTHALATES |
| 95JN | UG/KG | UNKNOWN PAH |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample: 33[redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SB / MD No: 0FZ3 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ3 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 420UJ | UG/KG | BENZALDEHYDE |
| 420U | UG/KG | PHENOL |
| 420U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 420U | UG/KG | 2-CHLOROPHENOL |
| 420U | UG/KG | 2-METHYLPHENOL |
| 420U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 420U | UG/KG | ACETOPHENONE |
| 420U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 420U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 420U | UG/KG | HEXACHLOROETHANE |
| 420U | UG/KG | NITROBENZENE |
| 420U | UG/KG | ISOPHORONE |
| 420U | UG/KG | 2-NITROPHENOL |
| 420U | UG/KG | 2,4-DIMETHYLPHENOL |
| 420U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 420U | UG/KG | 2,4-DICHLOROPHENOL |
| 420U | UG/KG | NAPHTHALENE |
| 420U | UG/KG | 4-CHLOROANILINE |
| 420U | UG/KG | HEXACHLOROBUTADIENE |
| 420U | UG/KG | CAPROLACTAM |
| 420U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 420U | UG/KG | 2-METHYLNAPHTHALENE |
| 420U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 420U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 420U | UG/KG | 1,1-BIPHENYL |
| 420U | UG/KG | 2-CHLORONAPHTHALENE |
| 1100U | UG/KG | 2-NITROANILINE |
| 420U | UG/KG | DIMETHYL PHTHALATE |
| 420U | UG/KG | 2,6-DINITROTOLUENE |
| 420U | UG/KG | ACENAPHTHYLENE |
| 1100U | UG/KG | 3-NITROANILINE |
| 420U | UG/KG | ACENAPHTHENE |
| 1100U | UG/KG | 2,4-DINITROPHENOL |
| 1100U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 420U | UG/KG | DIBENZOFURAN |
| 420U | UG/KG | 2,4-DINITROTOLUENE |
| 420U | UG/KG | DIETHYL PHTHALATE |
| 420U | UG/KG | FLUORENE |
| 420U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1100U | UG/KG | 4-NITROANILINE |
| 1100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 420U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 420U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 420U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 420U | UG/KG | ATRAZINE |
| 1100U | UG/KG | PENTACHLOROPHENOL |
| 420U | UG/KG | PHENANTHRENE |
| 420U | UG/KG | ANTHRACENE |
| 420U | UG/KG | CARBAZOLE |
| 420U | UG/KG | DI-N-BUTYLPHTHALATE |
| 420U | UG/KG | FLUORANTHENE |
| 420U | UG/KG | PYRENE |
| 420U | UG/KG | BENZYL BUTYL PHTHALATE |
| 420U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 420U | UG/KG | BENZO(A)ANTHRACENE |
| 420U | UG/KG | CHRYSENE |
| 420U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 420U | UG/KG | DI-N-OCTYLPHTHALATE |
| 420U | UG/KG | BENZO(B)FLUORANTHENE |
| 420U | UG/KG | BENZO(K)FLUORANTHENE |
| 420U | UG/KG | BENZO-A-PYRENE |
| 420U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 420U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 420UJ | UG/KG | BENZO(GHI)PERYLENE |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD ATHENS GA [redacted] Pr[redacted]ctio[redacted]ate [redacted]17/[redacted] 07[redacted]

Sample 3[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SB / MD No: 0FZ3 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ3 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 11:05
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 17000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 900J | UG/KG | 2 UNKNOWN COMPOUNDS |
| 110JN | UG/KG | UNKNOWN AMIDE |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SS / MD No: 0FZ4 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ4 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:57
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 430UJ | UG/KG | BENZALDEHYDE |
| 430U | UG/KG | PHENOL |
| 430U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 430U | UG/KG | 2-CHLOROPHENOL |
| 430U | UG/KG | 2-METHYLPHENOL |
| 430U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 430U | UG/KG | ACETOPHENONE |
| 430U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 430U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 430U | UG/KG | HEXACHLOROETHANE |
| 430U | UG/KG | NITROBENZENE |
| 430U | UG/KG | ISOPHORONE |
| 430U | UG/KG | 2-NITROPHENOL |
| 430U | UG/KG | 2,4-DIMETHYLPHENOL |
| 430U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 430U | UG/KG | 2,4-DICHLOROPHENOL |
| 430U | UG/KG | NAPHTHALENE |
| 430U | UG/KG | 4-CHLOROANILINE |
| 430U | UG/KG | HEXACHLOROBUTADIENE |
| 430U | UG/KG | CAPROLACTAM |
| 430U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 57J | UG/KG | 2-METHYLNAPHTHALENE |
| 430U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 430U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 430U | UG/KG | 1,1-BIPHENYL |
| 430U | UG/KG | 2-CHLORONAPHTHALENE |
| 1100U | UG/KG | 2-NITROANILINE |
| 430U | UG/KG | DIMETHYL PHTHALATE |
| 430U | UG/KG | 2,6-DINITROTOLUENE |
| 430U | UG/KG | ACENAPHTHYLENE |
| 1100U | UG/KG | 3-NITROANILINE |
| 430U | UG/KG | ACENAPHTHENE |
| 1100U | UG/KG | 2,4-DINITROPHENOL |
| 1100U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 430U | UG/KG | DIBENZOFURAN |
| 430U | UG/KG | 2,4-DINITROTOLUENE |
| 430U | UG/KG | DIETHYL PHTHALATE |
| 430U | UG/KG | FLUORENE |
| 430U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1100U | UG/KG | 4-NITROANILINE |
| 1100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 430U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 430U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 430U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 430U | UG/KG | ATRAZINE |
| 1100U | UG/KG | PENTACHLOROPHENOL |
| 110J | UG/KG | PHENANTHRENE |
| 430U | UG/KG | ANTHRACENE |
| 430U | UG/KG | CARBAZOLE |
| 430U | UG/KG | DI-N-BUTYLPHTHALATE |
| 430U | UG/KG | FLUORANTHENE |
| 48J | UG/KG | PYRENE |
| 430U | UG/KG | BENZYL BUTYL PHTHALATE |
| 430U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 430U | UG/KG | BENZO(A)ANTHRACENE |
| 52J | UG/KG | CHRYSENE |
| 430U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 430U | UG/KG | DI-N-OCTYLPHTHALATE |
| 430U | UG/KG | BENZO(B)FLUORANTHENE |
| 430U | UG/KG | BENZO(K)FLUORANTHENE |
| 430U | UG/KG | BENZO-A-PYRENE |
| 430U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 430U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 430UJ | UG/KG | BENZO(GHI)PERYLENE |
| 23 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3326 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL017SS /
Media: SURFACE SOIL (0" - 12")

Case No: 29011
MD No: 0FZ4
D No: 0FZ4

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:57
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 18000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 2600J | UG/KG | 10 UNKNOWN COMPOUNDS |
| 120NJ | UG/KG | ETHANOL, 2-(2-BUTOXYETHOXY)- |
| 99NJ | UG/KG | NAPHTHALENE, 1-METHYL- |
| 230NJ | UG/KG | NAPHTHALENE, 2,3-DIMETHYL- |
| 90NJ | UG/KG | NAPHTHALENE, 1,4,6-TRIMETHYL |
| 94NJ | UG/KG | NAPHTHALENE, 1,6,7-TRIMETHYL |
| 120NJ | UG/KG | NAPHTHALENE, 1,4,5-TRIMETHYL |
| 330NJ | UG/KG | HEXADECANOIC ACID |
| 140NJ | UG/KG | ANTHRACENE, 2-METHYL- |
| 150NJ | UG/KG | PHENANTHRENE, 3,4,5,6-TETRAM |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SD / MD No: 0FZ5
Media: SEDIMENT D No: 0FZ5

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 530UJ | UG/KG | BENZALDEHYDE |
| 530U | UG/KG | PHENOL |
| 530U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 530U | UG/KG | 2-CHLOROPHENOL |
| 530U | UG/KG | 2-METHYLPHENOL |
| 530U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 530U | UG/KG | ACETOPHENONE |
| 530U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 530U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 530U | UG/KG | HEXACHLOROETHANE |
| 530U | UG/KG | NITROBENZENE |
| 530U | UG/KG | ISOPHORONE |
| 530U | UG/KG | 2-NITROPHENOL |
| 530U | UG/KG | 2,4-DIMETHYLPHENOL |
| 530U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 530U | UG/KG | 2,4-DICHLOROPHENOL |
| 270J | UG/KG | NAPHTHALENE |
| 530U | UG/KG | 4-CHLOROANILINE |
| 530U | UG/KG | HEXACHLOROBUTADIENE |
| 530U | UG/KG | CAPROLACTAM |
| 530U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 410J | UG/KG | 2-METHYLNAPHTHALENE |
| 530U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 530U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1300U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 54J | UG/KG | 1,1-BIPHENYL |
| 530U | UG/KG | 2-CHLORONAPHTHALENE |
| 1300U | UG/KG | 2-NITROANILINE |
| 530U | UG/KG | DIMETHYL PHTHALATE |
| 530U | UG/KG | 2,6-DINITROTOLUENE |
| 530U | UG/KG | ACENAPHTHYLENE |
| 1300U | UG/KG | 3-NITROANILINE |
| 530U | UG/KG | ACENAPHTHENE |
| 1300U | UG/KG | 2,4-DINITROPHENOL |
| 1300U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 81J | UG/KG | DIBENZOFURAN |
| 530U | UG/KG | 2,4-DINITROTOLUENE |
| 530U | UG/KG | DIETHYL PHTHALATE |
| 530U | UG/KG | FLUORENE |
| 530U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1300U | UG/KG | 4-NITROANILINE |
| 1300U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 530U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 530U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 530U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 530U | UG/KG | ATRAZINE |
| 1300U | UG/KG | PENTACHLOROPHENOL |
| 250J | UG/KG | PHENANTHRENE |
| 530U | UG/KG | ANTHRACENE |
| 530U | UG/KG | CARBAZOLE |
| 530U | UG/KG | DI-N-BUTYLPHTHALATE |
| 68J | UG/KG | FLUORANTHENE |
| 73J | UG/KG | PYRENE |
| 530U | UG/KG | BENZYL BUTYL PHTHALATE |
| 530U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 530U | UG/KG | BENZO(A)ANTHRACENE |
| 61J | UG/KG | CHRYSENE |
| 530U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 530U | UG/KG | DI-N-OCTYLPHTHALATE |
| 530U | UG/KG | BENZO(B)FLUORANTHENE |
| 530U | UG/KG | BENZO(K)FLUORANTHENE |
| 530U | UG/KG | BENZO-A-PYRENE |
| 530U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 530U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 530UJ | UG/KG | BENZO(GHI)PERYLENE |
| 38 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: [redacted]17/[redacted] 07:[redacted]

Sample 3327 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL018SD /
Media: SEDIMENT

Case No: 29011
MD No: 0FZ5
D No: 0FZ5

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:05
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 26000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 17000J | UG/KG | 16 UNKNOWN COMPOUNDS |
| 1100NJ | UG/KG | BENZALDEHYDE, 4-HYDROXY- |
| 350NJ | UG/KG | NAPHTHALENE, 2,3-DIMETHYL- |
| 410NJ | UG/KG | NAPHTHALENE, 1,6,7-TRIMETHYL |
| 320NJ | UG/KG | TETRADECANOIC ACID |
| 680NJ | UG/KG | PENTADECANOIC ACID |
| 330NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 550NJ | UG/KG | 9-HEXADECENOIC ACID |
| 1000NJ | UG/KG | HEXADECANOIC ACID |
| 650NJ | UG/KG | OLEIC ACID |
| 790NJ | UG/KG | OCTADECANAL |
| 810NJ | UG/KG | 1-DOCOSENE |
| 590NJ | UG/KG | 1-NONADECANOL |
| 3000NJ | UG/KG | .GAMMA.-SITOSTEROL |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SW / MD No: 0FZ6 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ6 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3329 FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL019SD / MD No: 0FZ7
Media: SEDIMENT D No: 0FZ7

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 670UJ | UG/KG | BENZALDEHYDE |
| 670U | UG/KG | PHENOL |
| 670U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 670U | UG/KG | 2-CHLOROPHENOL |
| 670U | UG/KG | 2-METHYLPHENOL |
| 670U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 79J | UG/KG | ACETOPHENONE |
| 670U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 670U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 670U | UG/KG | HEXACHLOROETHANE |
| 670U | UG/KG | NITROBENZENE |
| 670U | UG/KG | ISOPHORONE |
| 670U | UG/KG | 2-NITROPHENOL |
| 670U | UG/KG | 2,4-DIMETHYLPHENOL |
| 670U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 670U | UG/KG | 2,4-DICHLOROPHENOL |
| 670U | UG/KG | NAPHTHALENE |
| 670U | UG/KG | 4-CHLOROANILINE |
| 670U | UG/KG | HEXACHLOROBUTADIENE |
| 670U | UG/KG | CAPROLACTAM |
| 670U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 670U | UG/KG | 2-METHYLNAPHTHALENE |
| 670U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 670U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1700U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 670U | UG/KG | 1,1-BIPHENYL |
| 670U | UG/KG | 2-CHLORONAPHTHALENE |
| 1700U | UG/KG | 2-NITROANILINE |
| 670U | UG/KG | DIMETHYL PHTHALATE |
| 670U | UG/KG | 2,6-DINITROTOLUENE |
| 670U | UG/KG | ACENAPHTHYLENE |
| 1700U | UG/KG | 3-NITROANILINE |
| 670U | UG/KG | ACENAPHTHENE |
| 1700U | UG/KG | 2,4-DINITROPHENOL |
| 1700U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 670U | UG/KG | DIBENZOFURAN |
| 670U | UG/KG | 2,4-DINITROTOLUENE |
| 670U | UG/KG | DIETHYL PHTHALATE |
| 670U | UG/KG | FLUORENE |
| 670U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1700U | UG/KG | 4-NITROANILINE |
| 1700U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 670U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 670U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 670U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 670U | UG/KG | ATRAZINE |
| 1700U | UG/KG | PENTACHLOROPHENOL |
| 670U | UG/KG | PHENANTHRENE |
| 670U | UG/KG | ANTHRACENE |
| 670U | UG/KG | CARBAZOLE |
| 670U | UG/KG | DI-N-BUTYLPHTHALATE |
| 670U | UG/KG | FLUORANTHENE |
| 68J | UG/KG | PYRENE |
| 670U | UG/KG | BENZYL BUTYL PHTHALATE |
| 670U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 670U | UG/KG | BENZO(A)ANTHRACENE |
| 670U | UG/KG | CHRYSENE |
| 670U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 670U | UG/KG | DI-N-OCTYLPHTHALATE |
| 670U | UG/KG | BENZO(B)FLUORANTHENE |
| 670U | UG/KG | BENZO(K)FLUORANTHENE |
| 670U | UG/KG | BENZO-A-PYRENE |
| 670U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 670U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 670UJ | UG/KG | BENZO(GHI)PERYLENE |
| 51 | % | % MOISTURE |

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] A - REGION [redacted] SD, [redacted] ENS [redacted] Production Date: [redacted]

Sample 3329 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL019SD /
Media: SEDIMENT

Case No: 29011
MD No: 0FZ7
D No: 0FZ7

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 24000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 9000J | UG/KG | 19 UNKNOWN COMPOUNDS |
| 330NJ | UG/KG | TETRADECANOIC ACID |
| 220NJ | UG/KG | PENTADECANOIC ACID |
| 380NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 1100NJ | UG/KG | OXACYCLOHEXADECAN-2-ONE |
| 1600NJ | UG/KG | HEXADECANOIC ACID |
| 1900NJ | UG/KG | OLEIC ACID |
| 220NJ | UG/KG | HEXANEDIOIC ACID, BIS (2-ETHY |
| 400NJ | UG/KG | TETRADECANAL |
| 450JN | UG/KG | UNKNOWN ALDEHYDE |
| 2500NJ | UG/KG | .GAMMA.-SITOSTEROL |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL019SW / MD No: 0FZ8 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ8 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:20
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 5U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL020SD / MD No: 0FZ9
Media: SEDIMENT D No: 0FZ9

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 18:02
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 840UJ | UG/KG | BENZALDEHYDE |
| 840U | UG/KG | PHENOL |
| 840U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 840U | UG/KG | 2-CHLOROPHENOL |
| 840U | UG/KG | 2-METHYLPHENOL |
| 840U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 840U | UG/KG | ACETOPHENONE |
| 500J | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 840U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 840U | UG/KG | HEXACHLOROETHANE |
| 840U | UG/KG | NITROBENZENE |
| 840U | UG/KG | ISOPHORONE |
| 840U | UG/KG | 2-NITROPHENOL |
| 840U | UG/KG | 2,4-DIMETHYLPHENOL |
| 840U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 840U | UG/KG | 2,4-DICHLOROPHENOL |
| 840U | UG/KG | NAPHTHALENE |
| 840U | UG/KG | 4-CHLOROANILINE |
| 840U | UG/KG | HEXACHLOROBUTADIENE |
| 840U | UG/KG | CAPROLACTAM |
| 840U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 840U | UG/KG | 2-METHYLNAPHTHALENE |
| 840U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 840U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 2100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 840U | UG/KG | 1,1-BIPHENYL |
| 840U | UG/KG | 2-CHLORONAPHTHALENE |
| 2100U | UG/KG | 2-NITROANILINE |
| 840U | UG/KG | DIMETHYL PHTHALATE |
| 840U | UG/KG | 2,6-DINITROTOLUENE |
| 840U | UG/KG | ACENAPHTHYLENE |
| 2100U | UG/KG | 3-NITROANILINE |
| 840U | UG/KG | ACENAPHTHENE |
| 2100U | UG/KG | 2,4-DINITROPHENOL |
| 2100U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 840U | UG/KG | DIBENZOFURAN |
| 840U | UG/KG | 2,4-DINITROTOLUENE |
| 840U | UG/KG | DIETHYL PHTHALATE |
| 840U | UG/KG | FLUORENE |
| 840U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 2100U | UG/KG | 4-NITROANILINE |
| 2100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 840U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 840U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 840U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 840U | UG/KG | ATRAZINE |
| 2100U | UG/KG | PENTACHLOROPHENOL |
| 840U | UG/KG | PHENANTHRENE |
| 840U | UG/KG | ANTHRACENE |
| 840U | UG/KG | CARBAZOLE |
| 840U | UG/KG | DI-N-BUTYLPHTHALATE |
| 840U | UG/KG | FLUORANTHENE |
| 840U | UG/KG | PYRENE |
| 840U | UG/KG | BENZYL BUTYL PHTHALATE |
| 840U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 840U | UG/KG | BENZO(A)ANTHRACENE |
| 840U | UG/KG | CHRYSENE |
| 840U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 840U | UG/KG | DI-N-OCTYLPHTHALATE |
| 840U | UG/KG | BENZO(B)FLUORANTHENE |
| 840U | UG/KG | BENZO(K)FLUORANTHENE |
| 840U | UG/KG | BENZO-A-PYRENE |
| 840U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 840U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 840UJ | UG/KG | BENZO(GHI)PERYLENE |
| 61 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION [redacted] ESD [redacted] ENS [redacted] Production Date: [redacted]

Sample 3351 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL020SD / MD No: 0FZ9 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 18:02
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 42000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 19000J | UG/KG | 18 UNKNOWN COMPOUNDS |
| 570NJ | UG/KG | BENZENE, METHYL (1-METHYLETHY |
| 520NJ | UG/KG | TETRADECANOIC ACID |
| 520NJ | UG/KG | 2-PENTADECANONE, 6,10, 14-TRI |
| 410JN | UG/KG | UNKNOWN ALCOHOL/ALKENE |
| 300NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 2000NJ | UG/KG | 9-HEXADECENOIC ACID |
| 2100NJ | UG/KG | HEXADECANOIC ACID |
| 480NJ | UG/KG | OXIRANE, HEXADECYL- |
| 2100NJ | UG/KG | CHOLESTEROL |
| 2200NJ | UG/KG | .GAMMA.-SITOSTROL |
| 810NJ | UG/KG | PHYTOL |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD, ATHENS [redacted] Pro[redacted]tio[redacted]te: [redacted]7/2[redacted]07[redacted]

Sample [redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL010SW / MD No: 0G00 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G00 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 17:52

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

F TRACTABLES SAMPLE ANALYSIS [redacted] EPA - REGION IV ESD ATHENS [redacted] Pr[redacted]ctio[redacted]ate: [redacted]17/[redacted] 07[redacted]

Sample 3[redacted]2, FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010SW / MD No: 0G00 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G00 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:52
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 3J | UG/L | UNKNOWN COMPOUND |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3333 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL021SD / MD No: 0G01
Media: SEDIMENT D No: 0G01

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 190J | UG/KG | BENZALDEHYDE |
| 1000U | UG/KG | PHENOL |
| 1000U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 1000U | UG/KG | 2-CHLOROPHENOL |
| 1000U | UG/KG | 2-METHYLPHENOL |
| 1000U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 1000U | UG/KG | ACETOPHENONE |
| 780J | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 1000U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 1000U | UG/KG | HEXACHLOROETHANE |
| 1000U | UG/KG | NITROBENZENE |
| 1000U | UG/KG | ISOPHORONE |
| 1000U | UG/KG | 2-NITROPHENOL |
| 1000U | UG/KG | 2,4-DIMETHYLPHENOL |
| 1000U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 1000U | UG/KG | 2,4-DICHLOROPHENOL |
| 1000U | UG/KG | NAPHTHALENE |
| 1000U | UG/KG | 4-CHLOROANILINE |
| 1000U | UG/KG | HEXACHLOROBUTADIENE |
| 1000U | UG/KG | CAPROLACTAM |
| 1000U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 1000U | UG/KG | 2-METHYLNAPHTHALENE |
| 1000U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 1000U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 2500U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 1000U | UG/KG | 1,1-BIPHENYL |
| 1000U | UG/KG | 2-CHLORONAPHTHALENE |
| 2500U | UG/KG | 2-NITROANILINE |
| 1000U | UG/KG | DIMETHYL PHTHALATE |
| 1000U | UG/KG | 2,6-DINITROTOLUENE |
| 1000U | UG/KG | ACENAPHTHYLENE |
| 2500U | UG/KG | 3-NITROANILINE |
| 1000U | UG/KG | ACENAPHTHENE |
| 2500U | UG/KG | 2,4-DINITROPHENOL |
| 2500U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1000U | UG/KG | DIBENZOFURAN |
| 1000U | UG/KG | 2,4-DINITROTOLUENE |
| 1000U | UG/KG | DIETHYL PHTHALATE |
| 1000U | UG/KG | FLUORENE |
| 1000U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 2500U | UG/KG | 4-NITROANILINE |
| 2500U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 1000U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 1000U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 1000U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 1000U | UG/KG | ATRAZINE |
| 2500U | UG/KG | PENTACHLOROPHENOL |
| 1000U | UG/KG | PHENANTHRENE |
| 1000U | UG/KG | ANTHRACENE |
| 1000U | UG/KG | CARBAZOLE |
| 1000U | UG/KG | DI-N-BUTYLPHTHALATE |
| 1000U | UG/KG | FLUORANTHENE |
| 1000U | UG/KG | PYRENE |
| 1000U | UG/KG | BENZYL BUTYL PHTHALATE |
| 1000U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 1000U | UG/KG | BENZO(A)ANTHRACENE |
| 1000U | UG/KG | CHRYSENE |
| 1000U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 1000U | UG/KG | DI-N-OCTYLPHTHALATE |
| 1000U | UG/KG | BENZO(B)FLUORANTHENE |
| 1000U | UG/KG | BENZO(K)FLUORANTHENE |
| 1000U | UG/KG | BENZO-A-PYRENE |
| 1000U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 1000U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 1000UJ | UG/KG | BENZO(GHI)PERYLENE |
| 68 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3353 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:45
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL021SD / MD No: 0G01 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G01 Org Contractor: CEIMIC

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 48000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 1600J | UG/KG | 17 UNKNOWN COMPOUNDS |
| 760NJ | UG/KG | 1-HEPTADECENE |
| 730NJ | UG/KG | TETRADECANOIC ACID |
| 1300NJ | UG/KG | 2-HEXADECENE, 2,6,10,14-TETR |
| 570NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 2800NJ | UG/KG | OLEIC ACID |
| 2300NJ | UG/KG | HEXADECANOIC ACID |
| 530NJ | UG/KG | PHYTOL |
| 2700NJ | UG/KG | 9,12-OCTADECADIENOIC ACID (Z |
| 680J | UG/KG | UNKNOWN AMIDE |
| 980NJ | UG/KG | ETHANOL, 2-(TETRADECYLOXY)- |
| 440NJ | UG/KG | OCTADECANAL |
| 2000NJ | UG/KG | CHOLESTEROL |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL021SW / MD No: 0G02 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G02 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] PA - [redacted]ION [redacted]ESD, ATHENS, GA [redacted] Production Date: 04/17/2001 07:18

Sample 3[redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL022SD / MD No: 0G03 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G03 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 16:36

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 600UJ | UG/KG | BENZALDEHYDE |
| 600U | UG/KG | PHENOL |
| 600U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 600U | UG/KG | 2-CHLOROPHENOL |
| 600U | UG/KG | 2-METHYLPHENOL |
| 600U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 600U | UG/KG | ACETOPHENONE |
| 600U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 600U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 600U | UG/KG | HEXACHLOROETHANE |
| 600U | UG/KG | NITROBENZENE |
| 600U | UG/KG | ISOPHORONE |
| 600U | UG/KG | 2-NITROPHENOL |
| 600U | UG/KG | 2,4-DIMETHYLPHENOL |
| 600U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 600U | UG/KG | 2,4-DICHLOROPHENOL |
| 600U | UG/KG | NAPHTHALENE |
| 600U | UG/KG | 4-CHLOROANILINE |
| 600U | UG/KG | HEXACHLOROBUTADIENE |
| 600U | UG/KG | CAPROLACTAM |
| 600U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 600U | UG/KG | 2-METHYLNAPHTHALENE |
| 600U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 600U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1500U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 600U | UG/KG | 1,1-BIPHENYL |
| 600U | UG/KG | 2-CHLORONAPHTHALENE |
| 1500U | UG/KG | 2-NITROANILINE |
| 600U | UG/KG | DIMETHYL PHTHALATE |
| 600U | UG/KG | 2,6-DINITROTOLUENE |
| 600U | UG/KG | ACENAPHTHYLENE |
| 1500U | UG/KG | 3-NITROANILINE |
| 600U | UG/KG | ACENAPHTHENE |
| 1500U | UG/KG | 2,4-DINITROPHENOL |
| 1500U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 600U | UG/KG | DIBENZOFURAN |
| 600U | UG/KG | 2,4-DINITROTOLUENE |
| 600U | UG/KG | DIETHYL PHTHALATE |
| 600U | UG/KG | FLUORENE |
| 600U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1500U | UG/KG | 4-NITROANILINE |
| 1500U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 600U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 600U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 600U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 600U | UG/KG | ATRAZINE |
| 1500U | UG/KG | PENTACHLOROPHENOL |
| 600U | UG/KG | PHENANTHRENE |
| 600U | UG/KG | ANTHRACENE |
| 600U | UG/KG | CARBAZOLE |
| 600U | UG/KG | DI-N-BUTYLPHTHALATE |
| 600U | UG/KG | FLUORANTHENE |
| 600U | UG/KG | PYRENE |
| 600U | UG/KG | BENZYL BUTYL PHTHALATE |
| 600U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 600U | UG/KG | BENZO(A)ANTHRACENE |
| 600U | UG/KG | CHRYSENE |
| 600U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 600U | UG/KG | DI-N-OCTYLPHTHALATE |
| 600U | UG/KG | BENZO(B)FLUORANTHENE |
| 600U | UG/KG | BENZO(K)FLUORANTHENE |
| 600U | UG/KG | BENZO-A-PYRENE |
| 600U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 600U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 600UJ | UG/KG | BENZO(GHI)PERYLENE |
| 45 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL022SD / MD No: 0G03
Media: SEDIMENT D No: 0G03

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:36
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 25000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 4300J | UG/KG | 11 UNKNOWN COMPOUNDS |
| 190NJ | UG/KG | BENZALDEHYDE, 4-HYDROXY- |
| 320NJ | UG/KG | HEXADECANOIC ACID |
| 140J | UG/KG | UNKNOWN AMIDE |
| 230NJ | UG/KG | HEXANEDIOIC ACID, BIS (2-ETHY |
| 160NJ | UG/KG | OCTADECANAL |
| 210NJ | UG/KG | 1-DOCOSANOL |
| 240NJ | UG/KG | 1-NONADECANOL |
| 130J | UG/KG | UNKNOWN PHTHALATE |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] PA - [redacted]ION [redacted]ESD [redacted]HEN[redacted]A [redacted] Production Date: 04/17/2001 07:18

Sample [redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL022SW / MD No: 0G04 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G04 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:27
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
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Sample [redacted] FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL023SD / MD No: 0G05 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G05 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 680UJ | UG/KG | BENZALDEHYDE |
| 680U | UG/KG | PHENOL |
| 680U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 680U | UG/KG | 2-CHLOROPHENOL |
| 680U | UG/KG | 2-METHYLPHENOL |
| 680U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 680U | UG/KG | ACETOPHENONE |
| 1100 | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 680U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 680U | UG/KG | HEXACHLOROETHANE |
| 680U | UG/KG | NITROBENZENE |
| 680U | UG/KG | ISOPHORONE |
| 680U | UG/KG | 2-NITROPHENOL |
| 680U | UG/KG | 2,4-DIMETHYLPHENOL |
| 680U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 680U | UG/KG | 2,4-DICHLOROPHENOL |
| 680U | UG/KG | NAPHTHALENE |
| 680U | UG/KG | 4-CHLOROANILINE |
| 680U | UG/KG | HEXACHLOROBUTADIENE |
| 680U | UG/KG | CAPROLACTAM |
| 680U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 680U | UG/KG | 2-METHYLNAPHTHALENE |
| 680U | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 680U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1700U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 680U | UG/KG | 1,1-BIPHENYL |
| 680U | UG/KG | 2-CHLORONAPHTHALENE |
| 1700U | UG/KG | 2-NITROANILINE |
| 680U | UG/KG | DIMETHYL PHTHALATE |
| 680U | UG/KG | 2,6-DINITROTOLUENE |
| 680U | UG/KG | ACENAPHTHYLENE |
| 1700U | UG/KG | 3-NITROANILINE |
| 680U | UG/KG | ACENAPHTHENE |
| 1700U | UG/KG | 2,4-DINITROPHENOL |
| 1700U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 680U | UG/KG | DIBENZOFURAN |
| 680U | UG/KG | 2,4-DINITROTOLUENE |
| 680U | UG/KG | DIETHYL PHTHALATE |
| 680U | UG/KG | FLUORENE |
| 680U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1700U | UG/KG | 4-NITROANILINE |
| 1700U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 680U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 680U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 680U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 680U | UG/KG | ATRAZINE |
| 1700U | UG/KG | PENTACHLOROPHENOL |
| 680U | UG/KG | PHENANTHRENE |
| 680U | UG/KG | ANTHRACENE |
| 680U | UG/KG | CARBAZOLE |
| 680U | UG/KG | DI-N-BUTYLPHTHALATE |
| 77J | UG/KG | FLUORANTHENE |
| 72J | UG/KG | PYRENE |
| 680U | UG/KG | BENZYL BUTYL PHTHALATE |
| 680U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 680U | UG/KG | BENZO(A)ANTHRACENE |
| 680U | UG/KG | CHRYSENE |
| 680U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 680U | UG/KG | DI-N-OCTYLPHTHALATE |
| 680U | UG/KG | BENZO(B)FLUORANTHENE |
| 680U | UG/KG | BENZO(K)FLUORANTHENE |
| 680U | UG/KG | BENZO-A-PYRENE |
| 680U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 680U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 680UJ | UG/KG | BENZO(GHI)PERYLENE |
| 52 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3[redacted] FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:10
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL023SD / MD No: 0G05 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G05 Org Contractor: CEIMIC

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 32000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 13000J | UG/KG | 15 UNKNOWN COMPOUNDS |
| 610NJ | UG/KG | TETRADECANOIC ACID |
| 380NJ | UG/KG | PENTADECANOIC ACID |
| 930NJ | UG/KG | 2-PENTADECANONE, 5,10,14-TRI |
| 520NJ | UG/KG | 1H-2-BENZOPYRAN-1-ONE, 3,4-D |
| 810NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 1500NJ | UG/KG | 9-HEXADECENOIC ACID |
| 5500NJ | UG/KG | HEXADECANOIC ACID |
| 960NJ | UG/KG | PHYTOL |
| 7300NJ | UG/KG | OLEIC ACID |
| 400NJ | UG/KG | PHENANTHRENE, 3,4,5,6-TETRAM |
| 1200NJ | UG/KG | 1-DOCOSENE |
| 570NJ | UG/KG | CHOLESTEROL |
| 450JN | UG/KG | UNKNOWN ALDEHYDE |
| 5600NJ | UG/KG | .GAMMA.-SITOSTEROL |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:00
Ending:

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL023SW / MD No: 0G06 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G06 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL023SW / MD No: 0G06 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G06 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 4J | UG/L | UNKNOWN COMPOUND |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SD / MD No: 0G07
Media: SEDIMENT D No: 0G07

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:11
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 470UJ | UG/KG | BENZALDEHYDE |
| 470U | UG/KG | PHENOL |
| 470U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 470U | UG/KG | 2-CHLOROPHENOL |
| 470U | UG/KG | 2-METHYLPHENOL |
| 470U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 470U | UG/KG | ACETOPHENONE |
| 470U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 470U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 470U | UG/KG | HEXACHLOROETHANE |
| 470U | UG/KG | NITROBENZENE |
| 470U | UG/KG | ISOPHORONE |
| 470U | UG/KG | 2-NITROPHENOL |
| 470U | UG/KG | 2,4-DIMETHYLPHENOL |
| 470U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 470U | UG/KG | 2,4-DICHLOROPHENOL |
| 470U | UG/KG | NAPHTHALENE |
| 470U | UG/KG | 4-CHLOROANILINE |
| 470U | UG/KG | HEXACHLOROBUTADIENE |
| 470U | UG/KG | CAPROLACTAM |
| 470U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 470U | UG/KG | 2-METHYLNAPHTHALENE |
| 470UJ | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 470U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1200U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 470U | UG/KG | 1,1-BIPHENYL |
| 470U | UG/KG | 2-CHLORONAPHTHALENE |
| 1200U | UG/KG | 2-NITROANILINE |
| 470U | UG/KG | DIMETHYL PHTHALATE |
| 470U | UG/KG | 2,6-DINITROTOLUENE |
| 470U | UG/KG | ACENAPHTHYLENE |
| 1200U | UG/KG | 3-NITROANILINE |
| 470U | UG/KG | ACENAPHTHENE |
| 1200UJ | UG/KG | 2,4-DINITROPHENOL |
| 1200U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 470U | UG/KG | DIBENZOFURAN |
| 470U | UG/KG | 2,4-DINITROTOLUENE |
| 470U | UG/KG | DIETHYL PHTHALATE |
| 470U | UG/KG | FLUORENE |
| 470U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1200U | UG/KG | 4-NITROANILINE |
| 1200U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 470U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 470U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 470U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 470U | UG/KG | ATRAZINE |
| 1200U | UG/KG | PENTACHLOROPHENOL |
| 470U | UG/KG | PHENANTHRENE |
| 470U | UG/KG | ANTHRACENE |
| 470U | UG/KG | CARBAZOLE |
| 470U | UG/KG | DI-N-BUTYLPHTHALATE |
| 470U | UG/KG | FLUORANTHENE |
| 470U | UG/KG | PYRENE |
| 470U | UG/KG | BENZYL BUTYL PHTHALATE |
| 470U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 470U | UG/KG | BENZO(A)ANTHRACENE |
| 470U | UG/KG | CHRYSENE |
| 470U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 470U | UG/KG | DI-N-OCTYLPHTHALATE |
| 470U | UG/KG | BENZO(B)FLUORANTHENE |
| 470U | UG/KG | BENZO(K)FLUORANTHENE |
| 470U | UG/KG | BENZO-A-PYRENE |
| 470U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 470U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 470U | UG/KG | BENZO(GHI)PERYLENE |
| 30 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:11
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL024SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G07
D No: 0G07

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 18000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 3700J | UG/KG | 11 UNKNOWN COMPOUNDS |
| 440NJ | UG/KG | 9-HEXADECENOIC ACID |
| 340NJ | UG/KG | HEXADECANOIC ACID |
| 450JN | UG/KG | 2 UNKNOWN FATTY ACIDS |
| 3300NJ | UG/KG | 9,12-OCTADECADIENOIC ACID (Z |
| 250NJ | UG/KG | 1-EICOSANOL |
| 1000J | UG/KG | 6 UNKNOWN PHTHALATES |
| 290NJ | UG/KG | PENTADECANAL- |
| 600NJ | UG/KG | OCTADECANAL |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3540 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SW / MD No: 0G08 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G08 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5U | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS [redacted] EPA [redacted] GIO [redacted] SES [redacted] THE [redacted] GA [redacted] Production Date: 04/17/2001 07:18

Sample [redacted]0 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SW / MD No: 0G08 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G08 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 41J | UG/L | 13 UNKNOWN COMPOUNDS |
| 6NJ | UG/L | ETHOSUXIMIDE |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
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R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 1 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SD / MD No: 0G09 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G09 Org Contractor: CEIMIC

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 450UJ | UG/KG | BENZALDEHYDE |
| 450U | UG/KG | PHENOL |
| 450U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 450U | UG/KG | 2-CHLOROPHENOL |
| 450U | UG/KG | 2-METHYLPHENOL |
| 450U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 450U | UG/KG | ACETOPHENONE |
| 450U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 450U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 450U | UG/KG | HEXACHLOROETHANE |
| 450U | UG/KG | NITROBENZENE |
| 450U | UG/KG | ISOPHORONE |
| 450U | UG/KG | 2-NITROPHENOL |
| 450U | UG/KG | 2,4-DIMETHYLPHENOL |
| 450U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 450U | UG/KG | 2,4-DICHLOROPHENOL |
| 450U | UG/KG | NAPHTHALENE |
| 450U | UG/KG | 4-CHLOROANILINE |
| 450U | UG/KG | HEXACHLOROBUTADIENE |
| 450U | UG/KG | CAPROLACTAM |
| 450U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 450U | UG/KG | 2-METHYLNAPHTHALENE |
| 450UJ | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 450U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1100U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 450U | UG/KG | 1,1-BIPHENYL |
| 450U | UG/KG | 2-CHLORONAPHTHALENE |
| 1100U | UG/KG | 2-NITROANILINE |
| 450U | UG/KG | DIMETHYL PHTHALATE |
| 450U | UG/KG | 2,6-DINITROTOLUENE |
| 450U | UG/KG | ACENAPHTHYLENE |
| 1100U | UG/KG | 3-NITROANILINE |
| 450U | UG/KG | ACENAPHTHENE |
| 1100UJ | UG/KG | 2,4-DINITROPHENOL |
| 1100U | UG/KG | 4-NITROPHENOL |
| 450U | UG/KG | DIBENZOFURAN |
| 450U | UG/KG | 2,4-DINITROTOLUENE |
| 450U | UG/KG | DIETHYL PHTHALATE |
| 450U | UG/KG | FLUORENE |
| 450U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1100U | UG/KG | 4-NITROANILINE |
| 1100U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 450U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 450U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 450U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 450U | UG/KG | ATRAZINE |
| 1100U | UG/KG | PENTACHLOROPHENOL |
| 450U | UG/KG | PHENANTHRENE |
| 450U | UG/KG | ANTHRACENE |
| 450U | UG/KG | CARBAZOLE |
| 450U | UG/KG | DI-N-BUTYLPHTHALATE |
| 450U | UG/KG | FLUORANTHENE |
| 450U | UG/KG | PYRENE |
| 450U | UG/KG | BENZYL BUTYL PHTHALATE |
| 450U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 450U | UG/KG | BENZO(A)ANTHRACENE |
| 450U | UG/KG | CHRYSENE |
| 450UJ | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 450UJ | UG/KG | DI-N-OCTYLPHTHALATE |
| 450UJ | UG/KG | BENZO(B)FLUORANTHENE |
| 450UJ | UG/KG | BENZO(K)FLUORANTHENE |
| 450UJ | UG/KG | BENZO-A-PYRENE |
| 450UJ | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 450UJ | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 450UJ | UG/KG | BENZO(GHI)PERYLENE |
| 27 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]41 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SD / MD No: 0G09 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G09 Org Contractor: CEIMIC

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 22000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 7200J | UG/KG | 17 UNKNOWN COMPOUNDS |
| 290JN | UG/KG | 2 UNKNOWN FATTY ACIDS |
| 130NJ | UG/KG | PENTADECENOIC ACID |
| 340JN | UG/KG | UNKNOWN KETONE |
| 270NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 500NJ | UG/KG | 9-HEXADECENOIC ACID |
| 810NJ | UG/KG | HEXADECANOIC ACID |
| 690NJ | UG/KG | 1-DOCOSENE |
| 320NJ | UG/KG | 1-PENTADECANETHIOL |
| 2200NJ | UG/KG | VITAMIN E |
| 1700NJ | UG/KG | .GAMMA.-SITOSTEROL |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 2 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SW / MD No: 0G10 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G10 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]3 FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SD / MD No: 0G11 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G11 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2500UJ | UG/KG | BENZALDEHYDE |
| 2500U | UG/KG | PHENOL |
| 2500U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 2500U | UG/KG | 2-CHLOROPHENOL |
| 2500U | UG/KG | 2-METHYLPHENOL |
| 2500U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 2500U | UG/KG | ACETOPHENONE |
| 2500U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 2500U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 2500U | UG/KG | HEXACHLOROETHANE |
| 2500U | UG/KG | NITROBENZENE |
| 2500U | UG/KG | ISOPHORONE |
| 2500U | UG/KG | 2-NITROPHENOL |
| 2500U | UG/KG | 2,4-DIMETHYLPHENOL |
| 2500U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 2500U | UG/KG | 2,4-DICHLOROPHENOL |
| 2500U | UG/KG | NAPHTHALENE |
| 2500U | UG/KG | 4-CHLOROANILINE |
| 2500U | UG/KG | HEXACHLOROBUTADIENE |
| 2500U | UG/KG | CAPROLACTAM |
| 2500U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 2500U | UG/KG | 2-METHYLNAPHTHALENE |
| 2500UJ | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 2500U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 6300U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 2500U | UG/KG | 1,1-BIPHENYL |
| 2500U | UG/KG | 2-CHLORONAPHTHALENE |
| 6300U | UG/KG | 2-NITROANILINE |
| 2500U | UG/KG | DIMETHYL PHTHALATE |
| 2500U | UG/KG | 2,6-DINITROTOLUENE |
| 2500U | UG/KG | ACENAPHTHYLENE |
| 6300U | UG/KG | 3-NITROANILINE |
| 2500U | UG/KG | ACENAPHTHENE |
| 6300UJ | UG/KG | 2,4-DINITROPHENOL |
| 6300U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2500U | UG/KG | DIBENZOFURAN |
| 2500U | UG/KG | 2,4-DINITROTOLUENE |
| 2500U | UG/KG | DIETHYL PHTHALATE |
| 2500U | UG/KG | FLUORENE |
| 2500U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 6300U | UG/KG | 4-NITROANILINE |
| 6300U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 2500U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 2500U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 2500U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 2500U | UG/KG | ATRAZINE |
| 6300U | UG/KG | PENTACHLOROPHENOL |
| 330J | UG/KG | PHENANTHRENE |
| 2500U | UG/KG | ANTHRACENE |
| 2500U | UG/KG | CARBAZOLE |
| 2500U | UG/KG | DI-N-BUTYLPHTHALATE |
| 360J | UG/KG | FLUORANTHENE |
| 280J | UG/KG | PYRENE |
| 2500U | UG/KG | BENZYL BUTYL PHTHALATE |
| 2500U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 2500U | UG/KG | BENZO(A)ANTHRACENE |
| 2500U | UG/KG | CHRYSENE |
| 2500U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 2500U | UG/KG | DI-N-OCTYLPHTHALATE |
| 2500U | UG/KG | BENZO(B)FLUORANTHENE |
| 2500U | UG/KG | BENZO(K)FLUORANTHENE |
| 2500U | UG/KG | BENZO-A-PYRENE |
| 2500U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 2500U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 2500U | UG/KG | BENZO(GHI)PERYLENE |
| 74 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]43 FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SD / MD No: 0G11 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G11 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:10
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 76000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 770NJ | UG/KG | 3-PENTEN-2-ONE, 3,4-DIMETHYL |
| 36000J | UG/KG | 17 UNKNOWN COMPOUNDS |
| 810NJ | UG/KG | TETRADECANOIC ACID, METHYL E |
| 2000NJ | UG/KG | TETRADECANOIC ACID |
| 1000NJ | UG/KG | PENTADECANOIC ACID |
| 1400NJ | UG/KG | 7-HEXADECENOIC ACID, METHYL |
| 2200NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 4900NJ | UG/KG | 9-HEXADECENOIC ACID |
| 1400NJ | UG/KG | 8-OCTADECENOIC ACID, METHYL |
| 2700NJ | UG/KG | PHYTOL |
| 5000NJ | UG/KG | 9-HEXADECENOIC ACID |
| 2000JN | UG/KG | UNKNWON ALKENE |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]4 FY 2001 Project: 01-0401

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SW / MD No: 0G12 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G12 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]44 FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SW / MD No: 0G12 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G12 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 2J | UG/L | UNKNONW COMPOUND |
| 2NJ | UG/L | OCTADECANOIC ACID, BUTYL EST |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

XTRACTABLES SAMPLE ANALYSIS [redacted] EPA - [redacted] ESD [redacted] HEN [redacted] A [redacted] Pr[redacted]ctio[redacted]ate [redacted]/17[redacted]1 0[redacted]

Sample [redacted]7 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL125SD / MD No: 0G17 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G17 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 490UJ | UG/KG | BENZALDEHYDE |
| 490U | UG/KG | PHENOL |
| 490U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 490U | UG/KG | 2-CHLOROPHENOL |
| 490U | UG/KG | 2-METHYLPHENOL |
| 490U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 490U | UG/KG | ACETOPHENONE |
| 490U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 490U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 490U | UG/KG | HEXACHLOROETHANE |
| 490U | UG/KG | NITROBENZENE |
| 490U | UG/KG | ISOPHORONE |
| 490U | UG/KG | 2-NITROPHENOL |
| 490U | UG/KG | 2,4-DIMETHYLPHENOL |
| 490U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 490U | UG/KG | 2,4-DICHLOROPHENOL |
| 490U | UG/KG | NAPHTHALENE |
| 490U | UG/KG | 4-CHLOROANILINE |
| 490U | UG/KG | HEXACHLOROBUTADIENE |
| 490U | UG/KG | CAPROLACTAM |
| 490U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 490U | UG/KG | 2-METHYLNAPHTHALENE |
| 490UJ | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 490U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1200U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 490U | UG/KG | 1,1-BIPHENYL |
| 490U | UG/KG | 2-CHLORONAPHTHALENE |
| 1200U | UG/KG | 2-NITROANILINE |
| 490U | UG/KG | DIMETHYL PHTHALATE |
| 490U | UG/KG | 2,6-DINITROTOLUENE |
| 490U | UG/KG | ACENAPHTHYLENE |
| 1200U | UG/KG | 3-NITROANILINE |
| 490U | UG/KG | ACENAPHTHENE |
| 1200UJ | UG/KG | 2,4-DINITROPHENOL |
| 1200U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 490U | UG/KG | DIBENZOFURAN |
| 490U | UG/KG | 2,4-DINITROTOLUENE |
| 490U | UG/KG | DIETHYL PHTHALATE |
| 490U | UG/KG | FLUORENE |
| 490U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1200U | UG/KG | 4-NITROANILINE |
| 1200U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 490U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 490U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 490U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 490U | UG/KG | ATRAZINE |
| 1200U | UG/KG | PENTACHLOROPHENOL |
| 490U | UG/KG | PHENANTHRENE |
| 490U | UG/KG | ANTHRACENE |
| 490U | UG/KG | CARBAZOLE |
| 490U | UG/KG | DI-N-BUTYLPHTHALATE |
| 490U | UG/KG | FLUORANTHENE |
| 490U | UG/KG | PYRENE |
| 490U | UG/KG | BENZYL BUTYL PHTHALATE |
| 490U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 490U | UG/KG | BENZO(A)ANTHRACENE |
| 490U | UG/KG | CHRYSENE |
| 490U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 490U | UG/KG | DI-N-OCTYLPHTHALATE |
| 490U | UG/KG | BENZO(B)FLUORANTHENE |
| 490U | UG/KG | BENZO(K)FLUORANTHENE |
| 490U | UG/KG | BENZO-A-PYRENE |
| 490U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 490U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 490U | UG/KG | BENZO(GHI)PERYLENE |
| 34 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]7 FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL125SD / MD No: 0G17 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G17 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 23000J | UG/KG | 2-PENTANONE 4-HYDROXY-4-MET |
| 7300J | UG/KG | 15 UNKNOWN COMPOUNDS |
| 200JN | UG/KG | UNKNOWN KETONE |
| 800JN | UG/KG | 2 UNKNOWN ALDEHYDES |
| 360NJ | UG/KG | HEXADECANOIC ACID, METHYL, ES |
| 530NJ | UG/KG | 9-HEXADECENOIC ACID |
| 1300NJ | UG/KG | HEXADECANOIC ACID |
| 480NJ | UG/KG | PHYTOL |
| 1400JN | UG/KG | UNKNOWN FATTY ACID |
| 410NJ | UG/KG | CINNAMYL CINNAMATE |
| 280JN | UG/KG | UNKNOWN ALCOHOL/ALKENE |
| 180NJ | UG/KG | 1-EICOSANOL |
| 430NJ | UG/KG | OCTADECANAL |
| 290NJ | UG/KG | VITAMIN E |
| 2600NJ | UG/KG | .GAMMA.-SITOSTEROL |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD ATHENS, GA — Production Date: 04/17/2001 07:48

Sample [redacted]8 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill — Monroe, NC
Program: SF — Case No: 29011
Id/Station: UCL125SW / — MD No: 0G18 — Inorg Contractor: LIBRTY
Media: SURFACE WATER — D No: 0G18 — Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS [redacted] EPA [redacted] SESD [redacted] ATHENS GA [redacted] P[redacted]cti[redacted]ate[redacted]/17[redacted]1 0[redacted]

Sample [redacted]8 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL125SW / MD No: 0G18 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G18 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 21J | UG/L | 6 UNKNOWN COMPOUNDS |
| 7NJ | UG/L | OCTADECANOIC ACID, BUTYL EST |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS [redacted] EPA [redacted] REGION [redacted] SESD [redacted] ATHENS [redacted] GA [redacted] Production Date: [redacted]/17/2001 07:18

Sample [redacted]9 FY 2001 Project: 01-0401

EXTRACTABLES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL126SD / MD No: 0G19 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G19 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 11:54

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 520UJ | UG/KG | BENZALDEHYDE |
| 520U | UG/KG | PHENOL |
| 520U | UG/KG | BIS(2-CHLOROETHYL) ETHER |
| 520U | UG/KG | 2-CHLOROPHENOL |
| 520U | UG/KG | 2-METHYLPHENOL |
| 520U | UG/KG | BIS(2-CHLOROISOPROPYL) ETHER |
| 520U | UG/KG | ACETOPHENONE |
| 520U | UG/KG | (3-AND/OR 4-)METHYLPHENOL |
| 520U | UG/KG | N-NITROSODI-N-PROPYLAMINE |
| 520U | UG/KG | HEXACHLOROETHANE |
| 520U | UG/KG | NITROBENZENE |
| 520U | UG/KG | ISOPHORONE |
| 520U | UG/KG | 2-NITROPHENOL |
| 520U | UG/KG | 2,4-DIMETHYLPHENOL |
| 520U | UG/KG | BIS(2-CHLOROETHOXY)METHANE |
| 520U | UG/KG | 2,4-DICHLOROPHENOL |
| 520U | UG/KG | NAPHTHALENE |
| 520U | UG/KG | 4-CHLOROANILINE |
| 520U | UG/KG | HEXACHLOROBUTADIENE |
| 520U | UG/KG | CAPROLACTAM |
| 520U | UG/KG | 4-CHLORO-3-METHYLPHENOL |
| 520U | UG/KG | 2-METHYLNAPHTHALENE |
| 520UJ | UG/KG | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 520U | UG/KG | 2,4,6-TRICHLOROPHENOL |
| 1300U | UG/KG | 2,4,5-TRICHLOROPHENOL |
| 520U | UG/KG | 1,1-BIPHENYL |
| 520U | UG/KG | 2-CHLORONAPHTHALENE |
| 1300U | UG/KG | 2-NITROANILINE |
| 520U | UG/KG | DIMETHYL PHTHALATE |
| 520U | UG/KG | 2,6-DINITROTOLUENE |
| 520U | UG/KG | ACENAPHTHYLENE |
| 1300U | UG/KG | 3-NITROANILINE |
| 520U | UG/KG | ACENAPHTHENE |
| 1300UJ | UG/KG | 2,4-DINITROPHENOL |
| 1300U | UG/KG | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 520U | UG/KG | DIBENZOFURAN |
| 520U | UG/KG | 2,4-DINITROTOLUENE |
| 520U | UG/KG | DIETHYL PHTHALATE |
| 520U | UG/KG | FLUORENE |
| 520U | UG/KG | 4-CHLOROPHENYL PHENYL ETHER |
| 1300U | UG/KG | 4-NITROANILINE |
| 1300U | UG/KG | 2-METHYL-4,6-DINITROPHENOL |
| 520U | UG/KG | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 520U | UG/KG | 4-BROMOPHENYL PHENYL ETHER |
| 520U | UG/KG | HEXACHLOROBENZENE (HCB) |
| 520U | UG/KG | ATRAZINE |
| 1300U | UG/KG | PENTACHLOROPHENOL |
| 520U | UG/KG | PHENANTHRENE |
| 520U | UG/KG | ANTHRACENE |
| 520U | UG/KG | CARBAZOLE |
| 520U | UG/KG | DI-N-BUTYLPHTHALATE |
| 520U | UG/KG | FLUORANTHENE |
| 520U | UG/KG | PYRENE |
| 520U | UG/KG | BENZYL BUTYL PHTHALATE |
| 520U | UG/KG | 3,3'-DICHLOROBENZIDINE |
| 520U | UG/KG | BENZO(A)ANTHRACENE |
| 520U | UG/KG | CHRYSENE |
| 520U | UG/KG | BIS(2-ETHYLHEXYL) PHTHALATE |
| 520U | UG/KG | DI-N-OCTYLPHTHALATE |
| 520U | UG/KG | BENZO(B)FLUORANTHENE |
| 520U | UG/KG | BENZO(K)FLUORANTHENE |
| 520U | UG/KG | BENZO-A-PYRENE |
| 520U | UG/KG | INDENO (1,2,3-CD) PYRENE |
| 520U | UG/KG | DIBENZO(A,H)ANTHRACENE |
| 520U | UG/KG | BENZO(GHI)PERYLENE |
| 37 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS [redacted] EPA [redacted] REGION IV SESD [redacted] ATHENS GA [redacted] P[redacted]ctio[redacted]Date[redacted]/17[redacted]1 0[redacted]

Sample [redacted]9 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SD / MD No: 0G19
Media: SEDIMENT D No: 0G19

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:54
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 25000J | UG/KG | 2-PENTANONE, 4-HYDROXY-4-MET |
| 5300J | UG/KG | 15 UNKNOWN COMPOUNDS |
| 380JN | UG/KG | 2 UNKNOWN FATTY ACIDS |
| 180JN | UG/KG | UNKNOWN KETONE |
| 110NJ | UG/KG | HEXADECANOIC ACID, METHYL ES |
| 200NJ | UG/KG | 9-HEXADECENOIC ACID |
| 260NJ | UG/KG | PHYTOL |
| 600NJ | UG/KG | 9,12-OCTADECADIENOIC ACID (Z |
| 970J | UG/KG | 5 UNKNOWN PHTHALATES |
| 850NJ | UG/KG | .GAMMA.-SITOSTEROL |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS EPA - REGION IV SESD ATHENS, GA P[redacted]ct[redacted]Date[redacted]/17[redacted]1 0[redacted]3

Sample [redacted]0 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:49
Ending:

**EXTRACTABLES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SW / MD No: 0G20 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G20 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | BENZALDEHYDE |
| 5U | UG/L | PHENOL |
| 5U | UG/L | BIS(2-CHLOROETHYL) ETHER |
| 5U | UG/L | 2-CHLOROPHENOL |
| 5U | UG/L | 2-METHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROISOPROPYL) ETHER |
| NA | UG/L | ACETOPHENONE |
| 5U | UG/L | (3-AND/OR 4-)METHYLPHENOL |
| 5U | UG/L | N-NITROSODI-N-PROPYLAMINE |
| 5U | UG/L | HEXACHLOROETHANE |
| 5U | UG/L | NITROBENZENE |
| 5U | UG/L | ISOPHORONE |
| 5U | UG/L | 2-NITROPHENOL |
| 5U | UG/L | 2,4-DIMETHYLPHENOL |
| 5U | UG/L | BIS(2-CHLOROETHOXY)METHANE |
| 5U | UG/L | 2,4-DICHLOROPHENOL |
| 5U | UG/L | NAPHTHALENE |
| 5U | UG/L | 4-CHLOROANILINE |
| 5U | UG/L | HEXACHLOROBUTADIENE |
| NA | UG/L | CAPROLACTAM |
| 5U | UG/L | 4-CHLORO-3-METHYLPHENOL |
| 5U | UG/L | 2-METHYLNAPHTHALENE |
| 5U | UG/L | HEXACHLOROCYCLOPENTADIENE (HCCP) |
| 5U | UG/L | 2,4,6-TRICHLOROPHENOL |
| 20U | UG/L | 2,4,5-TRICHLOROPHENOL |
| NA | UG/L | 1,1-BIPHENYL |
| 5U | UG/L | 2-CHLORONAPHTHALENE |
| 20U | UG/L | 2-NITROANILINE |
| 5U | UG/L | DIMETHYL PHTHALATE |
| 5U | UG/L | 2,6-DINITROTOLUENE |
| 5U | UG/L | ACENAPHTHYLENE |
| 20U | UG/L | 3-NITROANILINE |
| 5U | UG/L | ACENAPHTHENE |
| 20U | UG/L | 2,4-DINITROPHENOL |
| 20U | UG/L | 4-NITROPHENOL |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 5U | UG/L | DIBENZOFURAN |
| 5U | UG/L | 2,4-DINITROTOLUENE |
| 5U | UG/L | DIETHYL PHTHALATE |
| 5U | UG/L | FLUORENE |
| 5U | UG/L | 4-CHLOROPHENYL PHENYL ETHER |
| 20U | UG/L | 4-NITROANILINE |
| 20U | UG/L | 2-METHYL-4,6-DINITROPHENOL |
| 5U | UG/L | N-NITROSODIPHENYLAMINE/DIPHENYLAMINE |
| 5U | UG/L | 4-BROMOPHENYL PHENYL ETHER |
| 5U | UG/L | HEXACHLOROBENZENE (HCB) |
| NA | UG/L | ATRAZINE |
| 20U | UG/L | PENTACHLOROPHENOL |
| 5U | UG/L | PHENANTHRENE |
| 5U | UG/L | ANTHRACENE |
| NA | UG/L | CARBAZOLE |
| 5U | UG/L | DI-N-BUTYLPHTHALATE |
| 5U | UG/L | FLUORANTHENE |
| 5U | UG/L | PYRENE |
| 5U | UG/L | BENZYL BUTYL PHTHALATE |
| 5UJ | UG/L | 3,3'-DICHLOROBENZIDINE |
| 5U | UG/L | BENZO(A)ANTHRACENE |
| 5U | UG/L | CHRYSENE |
| 5UJ | UG/L | BIS(2-ETHYLHEXYL) PHTHALATE |
| 5UJ | UG/L | DI-N-OCTYLPHTHALATE |
| 5U | UG/L | BENZO(B)FLUORANTHENE |
| 5U | UG/L | BENZO(K)FLUORANTHENE |
| 5U | UG/L | BENZO-A-PYRENE |
| 5U | UG/L | INDENO (1,2,3-CD) PYRENE |
| 5U | UG/L | DIBENZO(A,H)ANTHRACENE |
| 5U | UG/L | BENZO(GHI)PERYLENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]60 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:49
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SW / MD No: 0G20 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G20 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 4JN | UG/L | STRAIGHT-CHAIN ALKANE |
| 4J | UG/L | UNKNOWN COMPOUND |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

# ORGANIC DATA QUALIFIER REPORT

Case Number: 29011 Project Number 01-0401 SAS Number N/A

Site ID. Union County Landfill, Monroe, NC

Date: 3/28/01

| Affected Samples | Compound or Fraction | Flag Used | Reason |
|---|---|---|---|
| **VOA** | | | |
| 3311-3318,3328, 3330,3332,3334, 3336,3338,3340, 3342,3344,3348, 3350,3356 | acetone, 2-butanone, 1,2-dibromo-3-chloropropane | R | erratic relative response factor |
| 3311-3316 | 1,1-dichloroethene | J | erratic response factor |
| 3311 | vinyl chloride, chloroethane, tetrachloroethene | J | < quantitation limit |
| 3313,3315 | chloroethane | J | < quantitation limit |
| 3314 | 1,1-dichloroethane | J | < quantitation limit |
| 3317,3318,3332, 3334,3336,3340, 3356 | 1,2-dichloropropane, 4-methyl-2-pentanone | J | erratic response factor |
| 3319-3322,3324-3327,3329,3331, 3333,3335,3337, 3339,3341,3343, 3352 | methylene chloride, 1,2-dibromo-3-chloropropane | J | erratic response factor |
| 3322 | acetone | J | out of calibration range |
| | ethylbenzene, xylene(total), 1,4-dichlorobenzene | J | < quantitation limit |
| 3323,3347,3349 | dichlorodifluoromethane, chloromethane, bromomethane | J | erratic response factor |
| 3328,3338,3342, 3344,3348 | 1,2-dichloropropane, 4-methyl-2-pentanone, 1,2,4-trichlorobenzene | J | erratic response factor |
| 3328,3330 | bromodichloromethane, dibromochloromethane, 1,2,4-trichlorobenzene | J | < quantitation limit |
| 3329 | toluene | J | < quantitation limit |
| 3330 | bromodichloromethane | J | < quantitation limit |

# ORGANIC DATA QUALIFIER REPORT

Case Number: 29011 Project Number 01-0401 SAS Number N/A

Site ID. Union County Landfill, Monroe, NC

Date: 3/28/01

| Affected Samples | Compound or Fraction | Flag Used | Reason |
|---|---|---|---|
| 3338,3342,3348 | chloroform, bromodichloromethane, 1,2,4-trichlorobenzene | J | < quantitation limit |
| 3339 | cis-1,2-dichloroethene, trichloroethene, chlorobenzene, 1,4-dichlorobenzene | J | < quantitation limit |
| 3340 | all compounds except acetone, 2-butanone, 1,2-dibromo-3-chloropropane | J | headspace in sample vial |
| 3344 | chloroform, 1,2,4-trichlorobenzene | J | < quantitation limit |
| 3350 | bromomethane | J | erratic response factor |
| BNA | | | |
| 3311-3318,3334, 3336,3340 | 3,3'-dichlorobenzidine, bis(2-ethylhexyl)phthalate | J | erratic response factor |
| 3319-3327,3329, 3331,3333,3335, 3337 | benzaldehyde, benzo(g,h,i)perylene | J | erratic response factor |
| 3324 | benzaldehyde, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene | J | < quantitation limit |
| 3326 | 2-methylnaphthalene, phenanthrene, pyrene, chrysene | J | < quantitation limit |
| 3327 | naphthalene, 2-methylnaphthalene, 1,1'-biphenyl, dibenzofuran, phenanthrene, fluoranthene, pyrene, chrysene | J | < quantitation limit |
| 3328,3330,3332, 3338,3342,3344, 3348,3350 | 3,3'-dichlorobenzidine, bis(2-ethylhexyl)phthalate, di-n-octylphthalate | J | erratic response factor |
| 3329 | 4-methylphenol, pyrene | J | < quantitation limit |
| 3331 | 4-methylphenol | J | < quantitation limit |
| 3333 | benzaldehyde, 4-methylphenol | J | < quantitation limit |

ORGANIC DATA QUALIFIER REPORT

Case Number: 29011 Project Number 01-0401 SAS Number N/A

Site ID. Union County Landfill, Monroe, NC

Date: 3/28/01

| Affected Samples | Compound or Fraction | Flag Used | Reason |
|---|---|---|---|
| 3337 | fluoranthene, pyrene | J | < quantitation limit |
| 3339,3341,3343, 3347,3349 | benzaldehyde, hexachlorocyclopentadiene, 2,4-dinitrophenol | J | erratic response factor |
| 3341 | di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene | J | low internal standard recovery |
| 3343 | phenanthrene, fluoranthene, pyrene | J | < quantitation limit |
| **PEST** | | | |
| 3311-3318,3328, 3330,3332,3334, | alpha-BHC, delta-BHC, gamma-BHC | J | erratic response factor |
| 3336,3338,3340, 3342,3344,3348, 3350 | endosulfan II | R | missed in PE sample |
| 3311 | alpha-BHC | N | difference in columns |
| 3319 | heptachlor | N | difference in columns |
| 3324 | aroclor-1260 | J | < quantitation limit |
| 3329 | 4,4'-DDE | N | difference in columns |
| 3337,3347 | aroclor-1254 | J | < quantitation limit |

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Region 4**

**Science and Ecosystem Support Division**
**980 College Station Road**
**Athens, Georgia 30605-2720**

**MEMORANDUM**

RECEIVED
APR 27 2001
SUPERFUND SECTION

Date: 04/17/2001

Subject: Results of VOLATILES Sample Analysis
01-0401 Union County Landfill
Monroe, NC

From: Goddard, Denise

To: Bennett, Giezelle

CC: Dan LaMontagne
NCDENR

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

**ATTACHMENT**

Sample 33[redacted] FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:55
Ending:

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL001MW / MD No: 0FX9 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FX9 Org Contractor: MITKEM

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 0.8J | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 0.9J | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 5 | UG/L | 1,1-DICHLOROETHANE |
| 22 | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 4 | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 2 | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 0.5J | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 5 | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 2 | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 12 | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 33[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL001MW / MD No: 0FX9 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FX9 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |
| 7NJ | UG/L | ETHER |
| 2NJ | UG/L | BENZENE, 1-EHTYL-4-METHYL- |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]HENS, [redacted] Production Date: 04/17/2001 07:11

Sample 331[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL002MW / MD No: 0FY0 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY0 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 33[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL002MW / MD No: 0FY0 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY0 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]ENS, [redacted] [redacted] Production Date: 04/17/2001 07:11

Sample 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF

Id/Station: UCL003MW /

Media: GROUNDWATER

Case No: 29011

MD No: 0FY1

D No: 0FY1

Inorg Contractor: LIBRTY

Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 10:40

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 0.5J | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 5 | UG/L | 1,1-DICHLOROETHANE |
| 2 | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 7 | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 3 | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]ENS, [redacted] [redacted] Production Date: 04/17/2001 07:11

Sample [redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL003MW / MD No: 0FY1 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY1 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |
| 3NJ | UG/L | ETHER |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample | 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL004MW / MD No: 0FY2 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY2 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 0.8J | UG/L | 1,1-DICHLOROETHANE |
| 1 | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1 | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1 | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] IEN [redacted] A [redacted] Production Date: 04/17/2001 07:11

Sample 33[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL004MW / MD No: 0FY2 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY2 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]ENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample [redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL005MW / MD No: 0FY3 Inorg Contractor: LIBRTY
Media: GROUNDWATER D No: 0FY3 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 0.5J | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 33[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL005MW /
Media: GROUNDWATER

Case No: 29011
MD No: 0FY3
D No: 0FY3

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: 04/17/2001 07:11

Sample 3[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL006PW / MD No: 0FY4 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY4 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 08:48
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: 04/17/2001 07:11

Sample 331[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL006PW /
Media: POTABLE WATER

Case No: 29011
MD No: 0FY4
D No: 0FY4

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 08:48
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD, [redacted] HENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL008PW / MD No: 0FY5 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY5 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 09:25
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: 04/17/2001 07:11

Sample 33[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL008PW / MD No: 0FY5 Inorg Contractor: LIBRTY
Media: POTABLE WATER D No: 0FY5 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 09:25
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, ATHENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample 3[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL010PW / MD No: 0FY6 Inorg Contractor: LIBRTY

Media: POTABLE WATER D No: 0FY6 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 10:07

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] HEN [redacted] A [redacted] Production Date: 04/17/2001 07:11

Sample 3[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL010PW /
Media: POTABLE WATER

Case No: 29011
MD No: 0FY6
D No: 0FY6

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:07
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]ENS, [redacted] Production Date: 04/17/2001 07:11

Sample 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL011SS / MD No: 0FY7 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY7 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | DICHLORODIFLUOROMETHANE |
| 13U | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13U | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13UJ | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 25 | % | % MOISTURE |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 33[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL011SS / MD No: 0FY7 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY7 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 12:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/KG | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 332 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL012SS / MD No: 0FY8 Inorg Contractor: LIBRTY

Media: SURFACE SOIL (0" - 12") D No: 0FY8 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/27/2001 12:22

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 16U | UG/KG | DICHLORODIFLUOROMETHANE |
| 16U | UG/KG | CHLOROMETHANE |
| 16U | UG/KG | VINYL CHLORIDE |
| 16U | UG/KG | BROMOMETHANE |
| 16U | UG/KG | CHLOROETHANE |
| 16U | UG/KG | TRICHLOROFLUOROMETHANE |
| 16U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 16U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 16U | UG/KG | ACETONE |
| 16U | UG/KG | CARBON DISULFIDE |
| 16U | UG/KG | METHYL ACETATE |
| 16UJ | UG/KG | METHYLENE CHLORIDE |
| 16U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 16U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 16U | UG/KG | 1,1-DICHLOROETHANE |
| 16U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 16U | UG/KG | METHYL ETHYL KETONE |
| 16U | UG/KG | CHLOROFORM |
| 16U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 16U | UG/KG | CYCLOHEXANE |
| 16U | UG/KG | CARBON TETRACHLORIDE |
| 16U | UG/KG | BENZENE |
| 16U | UG/KG | 1,2-DICHLOROETHANE |
| 16U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 16U | UG/KG | METHYLCYCLOHEXANE |
| 16U | UG/KG | 1,2-DICHLOROPROPANE |
| 16U | UG/KG | BROMODICHLOROMETHANE |
| 16U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 16U | UG/KG | METHYL ISOBUTYL KETONE |
| 16U | UG/KG | TOLUENE |
| 16U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 16U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 16U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 16U | UG/KG | METHYL BUTYL KETONE |
| 16U | UG/KG | DIBROMOCHLOROMETHANE |
| 16U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 16U | UG/KG | CHLOROBENZENE |
| 16U | UG/KG | ETHYL BENZENE |
| 16U | UG/KG | TOTAL XYLENES |
| 16U | UG/KG | STYRENE |
| 16U | UG/KG | BROMOFORM |
| 16U | UG/KG | ISOPROPYLBENZENE |
| 16U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 16U | UG/KG | 1,3-DICHLOROBENZENE |
| 16U | UG/KG | 1,4-DICHLOROBENZENE |
| 16U | UG/KG | 1,2-DICHLOROBENZENE |
| 16UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 16U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 16U | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - R[redacted]ON [redacted]SD, [redacted]ENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample 332[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL013SS / MD No: 0FY9 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FY9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 13:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/KG | DICHLORODIFLUOROMETHANE |
| 15U | UG/KG | CHLOROMETHANE |
| 15U | UG/KG | VINYL CHLORIDE |
| 15U | UG/KG | BROMOMETHANE |
| 15U | UG/KG | CHLOROETHANE |
| 15U | UG/KG | TRICHLOROFLUOROMETHANE |
| 15U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 15U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 15U | UG/KG | ACETONE |
| 15U | UG/KG | CARBON DISULFIDE |
| 15U | UG/KG | METHYL ACETATE |
| 15UJ | UG/KG | METHYLENE CHLORIDE |
| 15U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 15U | UG/KG | 1,1-DICHLOROETHANE |
| 15U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL ETHYL KETONE |
| 15U | UG/KG | CHLOROFORM |
| 15U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 15U | UG/KG | CYCLOHEXANE |
| 15U | UG/KG | CARBON TETRACHLORIDE |
| 15U | UG/KG | BENZENE |
| 15U | UG/KG | 1,2-DICHLOROETHANE |
| 15U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 15U | UG/KG | METHYLCYCLOHEXANE |
| 15U | UG/KG | 1,2-DICHLOROPROPANE |
| 15U | UG/KG | BROMODICHLOROMETHANE |
| 15U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | METHYL ISOBUTYL KETONE |
| 15U | UG/KG | TOLUENE |
| 15U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 15U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 15U | UG/KG | METHYL BUTYL KETONE |
| 15U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 15U | UG/KG | CHLOROBENZENE |
| 15U | UG/KG | ETHYL BENZENE |
| 15U | UG/KG | TOTAL XYLENES |
| 15U | UG/KG | STYRENE |
| 15U | UG/KG | BROMOFORM |
| 15U | UG/KG | ISOPROPYLBENZENE |
| 15U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 15U | UG/KG | 1,3-DICHLOROBENZENE |
| 15U | UG/KG | 1,4-DICHLOROBENZENE |
| 15U | UG/KG | 1,2-DICHLOROBENZENE |
| 15UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 15U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 15U | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

OLATILES SAMPLE ANALYSIS [redacted] A - [redacted] ON [redacted] ESD [redacted] HENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample 332[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL015SB / MD No: 0FZ0 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ0 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 14:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 12U | UG/KG | DICHLORODIFLUOROMETHANE |
| 12U | UG/KG | CHLOROMETHANE |
| 12U | UG/KG | VINYL CHLORIDE |
| 12U | UG/KG | BROMOMETHANE |
| 12U | UG/KG | CHLOROETHANE |
| 12U | UG/KG | TRICHLOROFLUOROMETHANE |
| 12U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 12U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 12U | UG/KG | ACETONE |
| 12U | UG/KG | CARBON DISULFIDE |
| 12U | UG/KG | METHYL ACETATE |
| 12UJ | UG/KG | METHYLENE CHLORIDE |
| 12U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 12U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 12U | UG/KG | 1,1-DICHLOROETHANE |
| 12U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 12U | UG/KG | METHYL ETHYL KETONE |
| 12U | UG/KG | CHLOROFORM |
| 12U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 12U | UG/KG | CYCLOHEXANE |
| 12U | UG/KG | CARBON TETRACHLORIDE |
| 12U | UG/KG | BENZENE |
| 12U | UG/KG | 1,2-DICHLOROETHANE |
| 12U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 12U | UG/KG | METHYLCYCLOHEXANE |
| 12U | UG/KG | 1,2-DICHLOROPROPANE |
| 12U | UG/KG | BROMODICHLOROMETHANE |
| 12U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 12U | UG/KG | METHYL ISOBUTYL KETONE |
| 12U | UG/KG | TOLUENE |
| 12U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 12U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 12U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 12U | UG/KG | METHYL BUTYL KETONE |
| 12U | UG/KG | DIBROMOCHLOROMETHANE |
| 12U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 12U | UG/KG | CHLOROBENZENE |
| 1J | UG/KG | ETHYL BENZENE |
| 3J | UG/KG | TOTAL XYLENES |
| 12U | UG/KG | STYRENE |
| 12U | UG/KG | BROMOFORM |
| 12U | UG/KG | ISOPROPYLBENZENE |
| 12U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 12U | UG/KG | 1,3-DICHLOROBENZENE |
| 2J | UG/KG | 1,4-DICHLOROBENZENE |
| 12U | UG/KG | 1,2-DICHLOROBENZENE |
| 12UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 12U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 12U | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 332[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL015SB / MD No: 0FZ0 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ0 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 14:55
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 7NJ | UG/KG | 1H-INDENE, 1-METHYLENE |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SB / MD No: 0FZ1 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ1 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15UJ | UG/KG | DICHLORODIFLUOROMETHANE |
| 15UJ | UG/KG | CHLOROMETHANE |
| 15U | UG/KG | VINYL CHLORIDE |
| 15UJ | UG/KG | BROMOMETHANE |
| 15U | UG/KG | CHLOROETHANE |
| 15U | UG/KG | TRICHLOROFLUOROMETHANE |
| 15U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 15U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 15U | UG/KG | ACETONE |
| 15U | UG/KG | CARBON DISULFIDE |
| 15U | UG/KG | METHYL ACETATE |
| 15U | UG/KG | METHYLENE CHLORIDE |
| 15U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 15U | UG/KG | 1,1-DICHLOROETHANE |
| 15U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL ETHYL KETONE |
| 15U | UG/KG | CHLOROFORM |
| 15U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 15U | UG/KG | CYCLOHEXANE |
| 15U | UG/KG | CARBON TETRACHLORIDE |
| 15U | UG/KG | BENZENE |
| 15U | UG/KG | 1,2-DICHLOROETHANE |
| 15U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 15U | UG/KG | METHYLCYCLOHEXANE |
| 15U | UG/KG | 1,2-DICHLOROPROPANE |
| 15U | UG/KG | BROMODICHLOROMETHANE |
| 15U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | METHYL ISOBUTYL KETONE |
| 15U | UG/KG | TOLUENE |
| 15U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 15U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 15U | UG/KG | METHYL BUTYL KETONE |
| 15U | UG/KG | DIBROMOCHLOROMETHANE |
| 15U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 15U | UG/KG | CHLOROBENZENE |
| 15U | UG/KG | ETHYL BENZENE |
| 15U | UG/KG | TOTAL XYLENES |
| 15U | UG/KG | STYRENE |
| 15U | UG/KG | BROMOFORM |
| 15U | UG/KG | ISOPROPYLBENZENE |
| 15U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 15U | UG/KG | 1,3-DICHLOROBENZENE |
| 15U | UG/KG | 1,4-DICHLOROBENZENE |
| 15U | UG/KG | 1,2-DICHLOROBENZENE |
| 15U | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 15U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 24 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - R[redacted]ON [redacted]SD, [redacted]ENS [redacted] Production Date: 04/17/2001 07:11

Sample 332[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL016SS / MD No: 0FZ2 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ2 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 14U | UG/KG | DICHLORODIFLUOROMETHANE |
| 14U | UG/KG | CHLOROMETHANE |
| 14U | UG/KG | VINYL CHLORIDE |
| 14U | UG/KG | BROMOMETHANE |
| 14U | UG/KG | CHLOROETHANE |
| 14U | UG/KG | TRICHLOROFLUOROMETHANE |
| 14U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 14U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 14U | UG/KG | ACETONE |
| 14U | UG/KG | CARBON DISULFIDE |
| 14U | UG/KG | METHYL ACETATE |
| 14UJ | UG/KG | METHYLENE CHLORIDE |
| 14U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 14U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 14U | UG/KG | 1,1-DICHLOROETHANE |
| 14U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 14U | UG/KG | METHYL ETHYL KETONE |
| 14U | UG/KG | CHLOROFORM |
| 14U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 14U | UG/KG | CYCLOHEXANE |
| 14U | UG/KG | CARBON TETRACHLORIDE |
| 14U | UG/KG | BENZENE |
| 14U | UG/KG | 1,2-DICHLOROETHANE |
| 14U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 14U | UG/KG | METHYLCYCLOHEXANE |
| 14U | UG/KG | 1,2-DICHLOROPROPANE |
| 14U | UG/KG | BROMODICHLOROMETHANE |
| 14U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 14U | UG/KG | METHYL ISOBUTYL KETONE |
| 14U | UG/KG | TOLUENE |
| 14U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 14U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 14U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 14U | UG/KG | METHYL BUTYL KETONE |
| 14U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 14U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 14U | UG/KG | CHLOROBENZENE |
| 14U | UG/KG | ETHYL BENZENE |
| 14U | UG/KG | TOTAL XYLENES |
| 14U | UG/KG | STYRENE |
| 14U | UG/KG | BROMOFORM |
| 14U | UG/KG | ISOPROPYLBENZENE |
| 14U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 14U | UG/KG | 1,3-DICHLOROBENZENE |
| 14U | UG/KG | 1,4-DICHLOROBENZENE |
| 14U | UG/KG | 1,2-DICHLOROBENZENE |
| 14UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 14U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 31 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]HENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample 332[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SB MD No: 0FZ3 Inorg Contractor: LIBRTY
Media: SUBSURFACE SOIL (> 12") D No: 0FZ3 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | DICHLORODIFLUOROMETHANE |
| 13U | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13U | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13UJ | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 23 | % | % MOISTURE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]ESD, [redacted]ENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample 332[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL017SS / MD No: 0FZ4 Inorg Contractor: LIBRTY
Media: SURFACE SOIL (0" - 12") D No: 0FZ4 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/27/2001 10:57
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | DICHLORODIFLUOROMETHANE |
| 13U | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13U | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13UJ | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 21 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] A - [redacted]ON [redacted]SD, [redacted]ENS, [redacted] [redacted] Production Date: 04/17/2001 07:11

Sample 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL018SD / MD No: 0FZ5 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0FZ5 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 17:05

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 20U | UG/KG | DICHLORODIFLUOROMETHANE |
| 20U | UG/KG | CHLOROMETHANE |
| 20U | UG/KG | VINYL CHLORIDE |
| 20U | UG/KG | BROMOMETHANE |
| 20U | UG/KG | CHLOROETHANE |
| 20U | UG/KG | TRICHLOROFLUOROMETHANE |
| 20U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 20U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 20U | UG/KG | ACETONE |
| 20U | UG/KG | CARBON DISULFIDE |
| 20U | UG/KG | METHYL ACETATE |
| 20UJ | UG/KG | METHYLENE CHLORIDE |
| 20U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 20U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 20U | UG/KG | 1,1-DICHLOROETHANE |
| 20U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 20U | UG/KG | METHYL ETHYL KETONE |
| 20U | UG/KG | CHLOROFORM |
| 20U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 20U | UG/KG | CYCLOHEXANE |
| 20U | UG/KG | CARBON TETRACHLORIDE |
| 20U | UG/KG | BENZENE |
| 20U | UG/KG | 1,2-DICHLOROETHANE |
| 20U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 20U | UG/KG | METHYLCYCLOHEXANE |
| 20U | UG/KG | 1,2-DICHLOROPROPANE |
| 20U | UG/KG | BROMODICHLOROMETHANE |
| 20U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 20U | UG/KG | METHYL ISOBUTYL KETONE |
| 20U | UG/KG | TOLUENE |
| 20U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 20U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 20U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 20U | UG/KG | METHYL BUTYL KETONE |
| 20U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 20U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 20U | UG/KG | CHLOROBENZENE |
| 20U | UG/KG | ETHYL BENZENE |
| 20U | UG/KG | TOTAL XYLENES |
| 20U | UG/KG | STYRENE |
| 20U | UG/KG | BROMOFORM |
| 20U | UG/KG | ISOPROPYLBENZENE |
| 20U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 20U | UG/KG | 1,3-DICHLOROBENZENE |
| 20U | UG/KG | 1,4-DICHLOROBENZENE |
| 20U | UG/KG | 1,2-DICHLOROBENZENE |
| 20UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 20U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 50 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3326 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SW / MD No: 0FZ6 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ6 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1 | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 0.9J | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 0.5J | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 0.6J | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3328 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL018SW / MD No: 0FZ6 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0FZ6 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 332[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL019SD / MD No: 0FZ7 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0FZ7 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 16:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 19U | UG/KG | DICHLORODIFLUOROMETHANE |
| 19U | UG/KG | CHLOROMETHANE |
| 19U | UG/KG | VINYL CHLORIDE |
| 19U | UG/KG | BROMOMETHANE |
| 19U | UG/KG | CHLOROETHANE |
| 19U | UG/KG | TRICHLOROFLUOROMETHANE |
| 19U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 19U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 19U | UG/KG | ACETONE |
| 19U | UG/KG | CARBON DISULFIDE |
| 19U | UG/KG | METHYL ACETATE |
| 19UJ | UG/KG | METHYLENE CHLORIDE |
| 19U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 19U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 19U | UG/KG | 1,1-DICHLOROETHANE |
| 19U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 19U | UG/KG | METHYL ETHYL KETONE |
| 19U | UG/KG | CHLOROFORM |
| 19U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 19U | UG/KG | CYCLOHEXANE |
| 19U | UG/KG | CARBON TETRACHLORIDE |
| 19U | UG/KG | BENZENE |
| 19U | UG/KG | 1,2-DICHLOROETHANE |
| 19U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 19U | UG/KG | METHYLCYCLOHEXANE |
| 19U | UG/KG | 1,2-DICHLOROPROPANE |
| 19U | UG/KG | BROMODICHLOROMETHANE |
| 19U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 19U | UG/KG | METHYL ISOBUTYL KETONE |
| 18J | UG/KG | TOLUENE |
| 19U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 19U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 19U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 19U | UG/KG | METHYL BUTYL KETONE |
| 19U | UG/KG | DIBROMOCHLOROMETHANE |
| 19U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 19U | UG/KG | CHLOROBENZENE |
| 19U | UG/KG | ETHYL BENZENE |
| 19U | UG/KG | TOTAL XYLENES |
| 19U | UG/KG | STYRENE |
| 19U | UG/KG | BROMOFORM |
| 19U | UG/KG | ISOPROPYLBENZENE |
| 19U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 19U | UG/KG | 1,3-DICHLOROBENZENE |
| 19U | UG/KG | 1,4-DICHLOROBENZENE |
| 19U | UG/KG | 1,2-DICHLOROBENZENE |
| 19UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 19U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 46 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LAT[redacted] SAMPLE AN[redacted]SIS[redacted] - R[redacted]N I[redacted]SD, [redacted]ENS[redacted] Production Date: 04/17/2001 07:11

Sample 3330 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL019SW / MD No: 0FZ8 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0FZ8 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 16:20

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1 | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 0.8J | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 0.6J | UG/L | 1,2,4-TRICHLOROBENZENE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS EPA - REGION IV SESD, ATHENS GA Production Date: 7/2 07:

Sample 33 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL019SW /
Media: SURFACE WATER

Case No: 29011
MD No: 0FZ8
D No: 0FZ8

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:20
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD, ATHENS [redacted] Pro[redacted]tion[redacted]te: [redacted]7/2[redacted]07:[redacted]

Sample 333[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL020SD / MD No: 0FZ9 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0FZ9 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 18:02
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 41U | UG/KG | DICHLORODIFLUOROMETHANE |
| 41U | UG/KG | CHLOROMETHANE |
| 41U | UG/KG | VINYL CHLORIDE |
| 41U | UG/KG | BROMOMETHANE |
| 41U | UG/KG | CHLOROETHANE |
| 41U | UG/KG | TRICHLOROFLUOROMETHANE |
| 41U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 41U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 73 | UG/KG | ACETONE |
| 41U | UG/KG | CARBON DISULFIDE |
| 41U | UG/KG | METHYL ACETATE |
| 41UJ | UG/KG | METHYLENE CHLORIDE |
| 41U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 41U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 41U | UG/KG | 1,1-DICHLOROETHANE |
| 41U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 41U | UG/KG | METHYL ETHYL KETONE |
| 41U | UG/KG | CHLOROFORM |
| 41U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 41U | UG/KG | CYCLOHEXANE |
| 41U | UG/KG | CARBON TETRACHLORIDE |
| 41U | UG/KG | BENZENE |
| 41U | UG/KG | 1,2-DICHLOROETHANE |
| 41U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 41U | UG/KG | METHYLCYCLOHEXANE |
| 41U | UG/KG | 1,2-DICHLOROPROPANE |
| 41U | UG/KG | BROMODICHLOROMETHANE |
| 41U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 41U | UG/KG | METHYL ISOBUTYL KETONE |
| 41U | UG/KG | TOLUENE |
| 41U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 41U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 41U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 41U | UG/KG | METHYL BUTYL KETONE |
| 41U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 41U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 41U | UG/KG | CHLOROBENZENE |
| 41U | UG/KG | ETHYL BENZENE |
| 41U | UG/KG | TOTAL XYLENES |
| 41U | UG/KG | STYRENE |
| 41U | UG/KG | BROMOFORM |
| 41U | UG/KG | ISOPROPYLBENZENE |
| 41U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 41U | UG/KG | 1,3-DICHLOROBENZENE |
| 41U | UG/KG | 1,4-DICHLOROBENZENE |
| 41U | UG/KG | 1,2-DICHLOROBENZENE |
| 41UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 41U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 74 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3332 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL010SW / MD No: 0G00 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G00 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:52
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 2 | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS EPA - REGION IV SESD, ATHENS, GA Production Date: 7/2 07

Sample 33 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL010SW /
Media: SURFACE WATER

Case No: 29011
MD No: 0G00
D No: 0G00

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:52
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

V LATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD, ATHENS, GA [redacted] Production Date: [redacted] 7/2[redacted] 07[redacted]

Sample 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL021SD / MD No: 0G01 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G01 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 17:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 37U | UG/KG | DICHLORODIFLUOROMETHANE |
| 37U | UG/KG | CHLOROMETHANE |
| 37U | UG/KG | VINYL CHLORIDE |
| 37U | UG/KG | BROMOMETHANE |
| 37U | UG/KG | CHLOROETHANE |
| 37U | UG/KG | TRICHLOROFLUOROMETHANE |
| 37U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 37U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 37U | UG/KG | ACETONE |
| 37U | UG/KG | CARBON DISULFIDE |
| 37U | UG/KG | METHYL ACETATE |
| 37UJ | UG/KG | METHYLENE CHLORIDE |
| 37U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 37U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 37U | UG/KG | 1,1-DICHLOROETHANE |
| 37U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 37U | UG/KG | METHYL ETHYL KETONE |
| 37U | UG/KG | CHLOROFORM |
| 37U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 37U | UG/KG | CYCLOHEXANE |
| 37U | UG/KG | CARBON TETRACHLORIDE |
| 37U | UG/KG | BENZENE |
| 37U | UG/KG | 1,2-DICHLOROETHANE |
| 37U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 37U | UG/KG | METHYLCYCLOHEXANE |
| 37U | UG/KG | 1,2-DICHLOROPROPANE |
| 37U | UG/KG | BROMODICHLOROMETHANE |
| 37U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 37U | UG/KG | METHYL ISOBUTYL KETONE |
| 37U | UG/KG | TOLUENE |
| 37U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 37U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 37U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 37U | UG/KG | METHYL BUTYL KETONE |
| 37U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 37U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 37U | UG/KG | CHLOROBENZENE |
| 37U | UG/KG | ETHYL BENZENE |
| 37U | UG/KG | TOTAL XYLENES |
| 37U | UG/KG | STYRENE |
| 37U | UG/KG | BROMOFORM |
| 37U | UG/KG | ISOPROPYLBENZENE |
| 37U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 37U | UG/KG | 1,3-DICHLOROBENZENE |
| 37U | UG/KG | 1,4-DICHLOROBENZENE |
| 37U | UG/KG | 1,2-DICHLOROBENZENE |
| 37UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 37U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 74 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS - R N I SD, ENS Production Date: 07/17/2001 07:11

Sample 3334 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL021SW / MD No: 0G02 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G02 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 17:40

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 2 | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3334 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL021SW / MD No: 0G02
Media: SURFACE WATER D No: 0G02

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 17:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

V. LATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD, ATHENS, GA [redacted] Pro[redacted]tion[redacted]te: [redacted]7/2[redacted]07:[redacted]

Sample 33[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL022SD / MD No: 0G03 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G03 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 16:36

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | DICHLORODIFLUOROMETHANE |
| 13U | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13U | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13UJ | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 31 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

V LATILES SAMPLE ANALYSIS - R N I SD, ENS Production Date: 07/17/2001 07:11

Sample 3336 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL022SW / MD No: 0G04 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G04 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 16:27

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 333 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL022SW / MD No: 0G04 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G04 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 16:27
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV [redacted]SD, [redacted]ENS [redacted] Pro[redacted]tion [redacted]te: [redacted]7/2[redacted]07:[redacted]

Sample 333[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL023SD / MD No: 0G05 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G05 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 14:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 18U | UG/KG | DICHLORODIFLUOROMETHANE |
| 18U | UG/KG | CHLOROMETHANE |
| 18U | UG/KG | VINYL CHLORIDE |
| 18U | UG/KG | BROMOMETHANE |
| 18U | UG/KG | CHLOROETHANE |
| 18U | UG/KG | TRICHLOROFLUOROMETHANE |
| 18U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 18U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 18U | UG/KG | ACETONE |
| 18U | UG/KG | CARBON DISULFIDE |
| 18U | UG/KG | METHYL ACETATE |
| 18UJ | UG/KG | METHYLENE CHLORIDE |
| 18U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 18U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 18U | UG/KG | 1,1-DICHLOROETHANE |
| 18U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 18U | UG/KG | METHYL ETHYL KETONE |
| 18U | UG/KG | CHLOROFORM |
| 18U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 18U | UG/KG | CYCLOHEXANE |
| 18U | UG/KG | CARBON TETRACHLORIDE |
| 18U | UG/KG | BENZENE |
| 18U | UG/KG | 1,2-DICHLOROETHANE |
| 18U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 18U | UG/KG | METHYLCYCLOHEXANE |
| 18U | UG/KG | 1,2-DICHLOROPROPANE |
| 18U | UG/KG | BROMODICHLOROMETHANE |
| 18U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 18U | UG/KG | METHYL ISOBUTYL KETONE |
| 18U | UG/KG | TOLUENE |
| 18U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 18U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 18U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 18U | UG/KG | METHYL BUTYL KETONE |
| 18U | UG/KG | DIBROMOCHLOROMETHANE |
| 18U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 18U | UG/KG | CHLOROBENZENE |
| 18U | UG/KG | ETHYL BENZENE |
| 18U | UG/KG | TOTAL XYLENES |
| 18U | UG/KG | STYRENE |
| 18U | UG/KG | BROMOFORM |
| 18U | UG/KG | ISOPROPYLBENZENE |
| 18U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 18U | UG/KG | 1,3-DICHLOROBENZENE |
| 18U | UG/KG | 1,4-DICHLOROBENZENE |
| 18U | UG/KG | 1,2-DICHLOROBENZENE |
| 18UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 18U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 43 | % | % MOISTURE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

ATILES SAMPLE ANALYSIS - R N IV D, ENS Production Date: 7/2 07:

Sample 3338 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL023SW / MD No: 0G06 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G06 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 14:00

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 0.9J | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 0.6J | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 0.6J | UG/L | 1,2,4-TRICHLOROBENZENE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS [redacted] - R[redacted]ON I[redacted]SD, [redacted]ENS[redacted] Production Date: [redacted]7/2[redacted]07:[redacted]

Sample 333[redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL023SW / MD No: 0G06 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G06 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 14:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD, ATHENS, GA [redacted] Pro[redacted]tion[redacted]te: [redacted]7/2[redacted]07:[redacted]

Sample 333[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SD / MD No: 0G07 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G07 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 13:11
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 14U | UG/KG | DICHLORODIFLUOROMETHANE |
| 14U | UG/KG | CHLOROMETHANE |
| 14U | UG/KG | VINYL CHLORIDE |
| 14U | UG/KG | BROMOMETHANE |
| 14U | UG/KG | CHLOROETHANE |
| 14U | UG/KG | TRICHLOROFLUOROMETHANE |
| 14U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 14U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 14U | UG/KG | ACETONE |
| 14U | UG/KG | CARBON DISULFIDE |
| 14U | UG/KG | METHYL ACETATE |
| 14UJ | UG/KG | METHYLENE CHLORIDE |
| 14U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 14U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 14U | UG/KG | 1,1-DICHLOROETHANE |
| 3J | UG/KG | CIS-1,2-DICHLOROETHENE |
| 14U | UG/KG | METHYL ETHYL KETONE |
| 14U | UG/KG | CHLOROFORM |
| 14U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 14U | UG/KG | CYCLOHEXANE |
| 14U | UG/KG | CARBON TETRACHLORIDE |
| 14U | UG/KG | BENZENE |
| 14U | UG/KG | 1,2-DICHLOROETHANE |
| 7J | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 14U | UG/KG | METHYLCYCLOHEXANE |
| 14U | UG/KG | 1,2-DICHLOROPROPANE |
| 14U | UG/KG | BROMODICHLOROMETHANE |
| 14U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 14U | UG/KG | METHYL ISOBUTYL KETONE |
| 14U | UG/KG | TOLUENE |
| 14U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 14U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 14U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 14U | UG/KG | METHYL BUTYL KETONE |
| 14U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 14U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 2J | UG/KG | CHLOROBENZENE |
| 14U | UG/KG | ETHYL BENZENE |
| 14U | UG/KG | TOTAL XYLENES |
| 14U | UG/KG | STYRENE |
| 14U | UG/KG | BROMOFORM |
| 14U | UG/KG | ISOPROPYLBENZENE |
| 14U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 14U | UG/KG | 1,3-DICHLOROBENZENE |
| 2J | UG/KG | 1,4-DICHLOROBENZENE |
| 14U | UG/KG | 1,2-DICHLOROBENZENE |
| 14UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 14U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 32 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 334 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SW / MD No: 0G08 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G08 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1UJ | UG/L | CHLOROMETHANE |
| 1UJ | UG/L | VINYL CHLORIDE |
| 1UJ | UG/L | BROMOMETHANE |
| 1UJ | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1UJ | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1UJ | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2UJ | UG/L | METHYLENE CHLORIDE |
| 1UJ | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1UJ | UG/L | 1,1-DICHLOROETHANE |
| 1UJ | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1UJ | UG/L | CHLOROFORM |
| 1UJ | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1UJ | UG/L | CARBON TETRACHLORIDE |
| 1UJ | UG/L | BENZENE |
| 1UJ | UG/L | 1,2-DICHLOROETHANE |
| 1UJ | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1UJ | UG/L | BROMODICHLOROMETHANE |
| 1UJ | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1UJ | UG/L | TOLUENE |
| 1UJ | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1UJ | UG/L | 1,1,2-TRICHLOROETHANE |
| 1UJ | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5UJ | UG/L | METHYL BUTYL KETONE |
| 1UJ | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1UJ | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1UJ | UG/L | CHLOROBENZENE |
| 1UJ | UG/L | ETHYL BENZENE |
| 1UJ | UG/L | TOTAL XYLENES |
| 1UJ | UG/L | STYRENE |
| 1UJ | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1UJ | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1UJ | UG/L | 1,3-DICHLOROBENZENE |
| 1UJ | UG/L | 1,4-DICHLOROBENZENE |
| 1UJ | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1UJ | UG/L | 1,2,4-TRICHLOROBENZENE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3340 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL024SW / MD No: 0G08 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G08 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:50
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1UJ | UG/L | BROMOCHLOROMETHANE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

V LATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV SESD, ATHENS [redacted] Pro[redacted]tion[redacted]te: [redacted]7/2[redacted]07:[redacted]

Sample 334[redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL025SD MD No: 0G09 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G09 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 12:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/KG | DICHLORODIFLUOROMETHANE |
| 15U | UG/KG | CHLOROMETHANE |
| 15U | UG/KG | VINYL CHLORIDE |
| 15U | UG/KG | BROMOMETHANE |
| 15U | UG/KG | CHLOROETHANE |
| 15U | UG/KG | TRICHLOROFLUOROMETHANE |
| 15U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 15U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 19 | UG/KG | ACETONE |
| 15U | UG/KG | CARBON DISULFIDE |
| 15U | UG/KG | METHYL ACETATE |
| 15UJ | UG/KG | METHYLENE CHLORIDE |
| 15U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 15U | UG/KG | 1,1-DICHLOROETHANE |
| 15U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL ETHYL KETONE |
| 15U | UG/KG | CHLOROFORM |
| 15U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 15U | UG/KG | CYCLOHEXANE |
| 15U | UG/KG | CARBON TETRACHLORIDE |
| 15U | UG/KG | BENZENE |
| 15U | UG/KG | 1,2-DICHLOROETHANE |
| 15U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 15U | UG/KG | METHYLCYCLOHEXANE |
| 15U | UG/KG | 1,2-DICHLOROPROPANE |
| 15U | UG/KG | BROMODICHLOROMETHANE |
| 15U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | METHYL ISOBUTYL KETONE |
| 15U | UG/KG | TOLUENE |
| 15U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 15U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 15U | UG/KG | METHYL BUTYL KETONE |
| 15U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 15U | UG/KG | CHLOROBENZENE |
| 15U | UG/KG | ETHYL BENZENE |
| 15U | UG/KG | TOTAL XYLENES |
| 15U | UG/KG | STYRENE |
| 15U | UG/KG | BROMOFORM |
| 15U | UG/KG | ISOPROPYLBENZENE |
| 15U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 15U | UG/KG | 1,3-DICHLOROBENZENE |
| 15U | UG/KG | 1,4-DICHLOROBENZENE |
| 15U | UG/KG | 1,2-DICHLOROBENZENE |
| 15UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 15U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 33 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

LATILES SAMPLE ANALYSIS - R N I SD, ENS Production Date: 07/2001 07:

Sample 334 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL025SW / MD No: 0G10 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G10 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 11:40

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 0.8J | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 0.5J | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 0.6J | UG/L | 1,2,4-TRICHLOROBENZENE |

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]42 FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL025SW / MD No: 0G10 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G10 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETRHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] EPA [redacted] GIO[redacted] SES [redacted] THE [redacted] GA [redacted] P[redacted]ucti[redacted] Date [redacted]/17/[redacted]01 0[redacted]1

Sample [redacted]3 FY 2001 Project: 01-0401

**VOLATILES SCAN**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SD / MD No: 0G11 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G11 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | DICHLORODIFLUOROMETHANE |
| 13U | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13U | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13UJ | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 18 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]4 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SW / MD No: 0G12 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G12 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 0.6J | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 0.8J | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL026SW / MD No: 0G12 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G12 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:00
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL125SD / MD No: 0G17 Inorg Contractor: LIBRTY

Media: SEDIMENT D No: 0G17 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 12:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13UJ | UG/KG | DICHLORODIFLUOROMETHANE |
| 13UJ | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13UJ | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13U | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 31 | % | % MOISTURE |

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]7 FY 2001 Project: 01-0401

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 12:00
Ending:

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL125SD /
Media: SEDIMENT

Case No: 29011
MD No: 0G17
D No: 0G17

Inorg Contractor: LIBRTY
Org Contractor: CEIMIC

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 29J | UG/KG | 3 UNKNOWN COMPOUNDS |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL125SW / MD No: 0G18 Inorg Contractor: LIBRTY

Media: SURFACE WATER D No: 0G18 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 11:40

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 0.8J | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 0.5J | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 0.7J | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 8 FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL125SW /
Media: SURFACE WATER

Case No: 29011
MD No: 0G18
D No: 0G18

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:40
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 9 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SD / MD No: 0G19 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G19 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:54
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 15UJ | UG/KG | DICHLORODIFLUOROMETHANE |
| 15UJ | UG/KG | CHLOROMETHANE |
| 15U | UG/KG | VINYL CHLORIDE |
| 15UJ | UG/KG | BROMOMETHANE |
| 15U | UG/KG | CHLOROETHANE |
| 15U | UG/KG | TRICHLOROFLUOROMETHANE |
| 15U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 15U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 16 | UG/KG | ACETONE |
| 15U | UG/KG | CARBON DISULFIDE |
| 15U | UG/KG | METHYL ACETATE |
| 15U | UG/KG | METHYLENE CHLORIDE |
| 15U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 15U | UG/KG | 1,1-DICHLOROETHANE |
| 15U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 15U | UG/KG | METHYL ETHYL KETONE |
| 15U | UG/KG | CHLOROFORM |
| 15U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 15U | UG/KG | CYCLOHEXANE |
| 15U | UG/KG | CARBON TETRACHLORIDE |
| 15U | UG/KG | BENZENE |
| 15U | UG/KG | 1,2-DICHLOROETHANE |
| 15U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 15U | UG/KG | METHYLCYCLOHEXANE |
| 15U | UG/KG | 1,2-DICHLOROPROPANE |
| 15U | UG/KG | BROMODICHLOROMETHANE |
| 15U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | METHYL ISOBUTYL KETONE |
| 15U | UG/KG | TOLUENE |
| 15U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 15U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 15U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 15U | UG/KG | METHYL BUTYL KETONE |
| 15U | UG/KG | DIBROMOCHLOROMETHANE |
| 15U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 15U | UG/KG | CHLOROBENZENE |
| 15U | UG/KG | ETHYL BENZENE |
| 15U | UG/KG | TOTAL XYLENES |
| 15U | UG/KG | STYRENE |
| 15U | UG/KG | BROMOFORM |
| 15U | UG/KG | ISOPROPYLBENZENE |
| 15U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 15U | UG/KG | 1,3-DICHLOROBENZENE |
| 15U | UG/KG | 1,4-DICHLOROBENZENE |
| 15U | UG/KG | 1,2-DICHLOROBENZENE |
| 15U | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 15U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 35 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted]9 FY 2001 Project: 01-0401

**MISCELLANEOUS COMPOUNDS**

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SD / MD No: 0G19 Inorg Contractor: LIBRTY
Media: SEDIMENT D No: 0G19 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:54
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 32J | UG/KG | 3 UNKNOWN COMPOUNDS |

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present., resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] EPA [redacted] GIO [redacted] SES [redacted] THE [redacted] GA [redacted] Production Date: 04/17/2001 07:11

Sample [redacted]0 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL126SW / MD No: 0G20 Inorg Contractor: LIBRTY
Media: SURFACE WATER D No: 0G20 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:49
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1UJ | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1U | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5U | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample [redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF
Id/Station: UCL126SW /
Media: SURFACE WATER

Case No: 29011
MD No: 0G20
D No: 0G20

Inorg Contractor: LIBRTY
Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 11:49
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROMETHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL127TB /

Media: TRIP BLANK - WATER D No: 0G21 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 10:40

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| NA | UG/L | CHLOROMETHANE |
| NA | UG/L | VINYL CHLORIDE |
| NA | UG/L | BROMOMETHANE |
| NA | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| NA | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| NA | UG/L | ACETONE |
| NA | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| NA | UG/L | METHYLENE CHLORIDE |
| NA | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| NA | UG/L | 1,1-DICHLOROETHANE |
| NA | UG/L | CIS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL ETHYL KETONE |
| NA | UG/L | CHLOROFORM |
| NA | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| NA | UG/L | CARBON TETRACHLORIDE |
| NA | UG/L | BENZENE |
| NA | UG/L | 1,2-DICHLOROETHANE |
| NA | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| NA | UG/L | 1,2-DICHLOROPROPANE |
| NA | UG/L | BROMODICHLOROMETHANE |
| NA | UG/L | CIS-1,3-DICHLOROPROPENE |
| NA | UG/L | METHYL ISOBUTYL KETONE |
| NA | UG/L | TOLUENE |
| NA | UG/L | TRANS-1,3-DICHLOROPROPENE |
| NA | UG/L | 1,1,2-TRICHLOROETHANE |
| NA | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| NA | UG/L | METHYL BUTYL KETONE |
| NA | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | 1,2-DIBROMOETHANE (EDB) |
| NA | UG/L | CHLOROBENZENE |
| NA | UG/L | ETHYL BENZENE |
| NA | UG/L | TOTAL XYLENES |
| NA | UG/L | STYRENE |
| NA | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| NA | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| NA | UG/L | 1,3-DICHLOROBENZENE |
| NA | UG/L | 1,4-DICHLOROBENZENE |
| NA | UG/L | 1,2-DICHLOROBENZENE |
| NA | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| NA | UG/L | 1,2,4-TRICHLOROBENZENE |

NO SAMPLE CONTAINER RECEIVED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3652 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL028TB /
Media: TRIP BLANK - SOIL D No: 0G14 Org Contractor: CEIMIC

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 10:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 13U | UG/KG | DICHLORODIFLUOROMETHANE |
| 13U | UG/KG | CHLOROMETHANE |
| 13U | UG/KG | VINYL CHLORIDE |
| 13U | UG/KG | BROMOMETHANE |
| 13U | UG/KG | CHLOROETHANE |
| 13U | UG/KG | TRICHLOROFLUOROMETHANE |
| 13U | UG/KG | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| 13U | UG/KG | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 13U | UG/KG | ACETONE |
| 13U | UG/KG | CARBON DISULFIDE |
| 13U | UG/KG | METHYL ACETATE |
| 13UJ | UG/KG | METHYLENE CHLORIDE |
| 13U | UG/KG | TRANS-1,2-DICHLOROETHENE |
| 13U | UG/KG | METHYL T-BUTYL ETHER (MTBE) |
| 13U | UG/KG | 1,1-DICHLOROETHANE |
| 13U | UG/KG | CIS-1,2-DICHLOROETHENE |
| 21 | UG/KG | METHYL ETHYL KETONE |
| 13U | UG/KG | CHLOROFORM |
| 13U | UG/KG | 1,1,1-TRICHLOROETHANE |
| 13U | UG/KG | CYCLOHEXANE |
| 13U | UG/KG | CARBON TETRACHLORIDE |
| 13U | UG/KG | BENZENE |
| 13U | UG/KG | 1,2-DICHLOROETHANE |
| 13U | UG/KG | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| 13U | UG/KG | METHYLCYCLOHEXANE |
| 13U | UG/KG | 1,2-DICHLOROPROPANE |
| 13U | UG/KG | BROMODICHLOROMETHANE |
| 13U | UG/KG | CIS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | METHYL ISOBUTYL KETONE |
| 13U | UG/KG | TOLUENE |
| 13U | UG/KG | TRANS-1,3-DICHLOROPROPENE |
| 13U | UG/KG | 1,1,2-TRICHLOROETHANE |
| 13U | UG/KG | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 13U | UG/KG | METHYL BUTYL KETONE |
| 13U | UG/KG | DIBROMOCHLOROMETHANE |
| 13U | UG/KG | 1,2-DIBROMOETHANE (EDB) |
| 13U | UG/KG | CHLOROBENZENE |
| 13U | UG/KG | ETHYL BENZENE |
| 13U | UG/KG | TOTAL XYLENES |
| 13U | UG/KG | STYRENE |
| 13U | UG/KG | BROMOFORM |
| 13U | UG/KG | ISOPROPYLBENZENE |
| 13U | UG/KG | 1,1,2,2-TETRACHLOROETHANE |
| 13U | UG/KG | 1,3-DICHLOROBENZENE |
| 13U | UG/KG | 1,4-DICHLOROBENZENE |
| 13U | UG/KG | 1,2-DICHLOROBENZENE |
| 13UJ | UG/KG | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 13U | UG/KG | 1,2,4-TRICHLOROBENZENE |
| 24 | % | % MOISTURE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 3552 FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL028TB /

Media: TRIP BLANK - SOIL D No: 0G14 Org Contractor: CEIMIC

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 10:35

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 8J | UG/KG | UNKNOWN COMPOUND |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS [redacted] EPA [redacted] GIO [redacted] SES, ATHENS, GA [redacted] Production Date: 04/17/2001 07:11

Sample [redacted]6 FY 2001 Project: 01-0401

VOLATILES SCAN

Facility: Union County Landfill Monroe, NC

Program: SF Case No: 29011

Id/Station: UCL027TB /

Media: TRIP BLANK - WATER D No: 0G13 Org Contractor: MITKEM

Produced by: Goddard, Denise

Requestor:

Project Leader: GBENNETT

Beginning: 02/26/2001 10:30

Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| NA | UG/L | DICHLORODIFLUOROMETHANE |
| 1U | UG/L | CHLOROMETHANE |
| 1U | UG/L | VINYL CHLORIDE |
| 1U | UG/L | BROMOMETHANE |
| 1U | UG/L | CHLOROETHANE |
| NA | UG/L | TRICHLOROFLUOROMETHANE |
| 1U | UG/L | 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE) |
| NA | UG/L | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) |
| 5UR | UG/L | ACETONE |
| 1U | UG/L | CARBON DISULFIDE |
| NA | UG/L | METHYL ACETATE |
| 2U | UG/L | METHYLENE CHLORIDE |
| 1U | UG/L | TRANS-1,2-DICHLOROETHENE |
| NA | UG/L | METHYL T-BUTYL ETHER (MTBE) |
| 1U | UG/L | 1,1-DICHLOROETHANE |
| 1U | UG/L | CIS-1,2-DICHLOROETHENE |
| 5UR | UG/L | METHYL ETHYL KETONE |
| 1U | UG/L | CHLOROFORM |
| 1U | UG/L | 1,1,1-TRICHLOROETHANE |
| NA | UG/L | CYCLOHEXANE |
| 1U | UG/L | CARBON TETRACHLORIDE |
| 1U | UG/L | BENZENE |
| 1U | UG/L | 1,2-DICHLOROETHANE |
| 1U | UG/L | TRICHLOROETHENE (TRICHLOROETHYLENE) |
| NA | UG/L | METHYLCYCLOHEXANE |
| 1UJ | UG/L | 1,2-DICHLOROPROPANE |
| 1U | UG/L | BROMODICHLOROMETHANE |
| 1U | UG/L | CIS-1,3-DICHLOROPROPENE |
| 5UJ | UG/L | METHYL ISOBUTYL KETONE |
| 1U | UG/L | TOLUENE |
| 1U | UG/L | TRANS-1,3-DICHLOROPROPENE |
| 1U | UG/L | 1,1,2-TRICHLOROETHANE |
| 1U | UG/L | TETRACHLOROETHENE (TETRACHLOROETHYLENE) |
| 5U | UG/L | METHYL BUTYL KETONE |
| 1U | UG/L | DIBROMOCHLOROMETHANE |

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | 1,2-DIBROMOETHANE (EDB) |
| 1U | UG/L | CHLOROBENZENE |
| 1U | UG/L | ETHYL BENZENE |
| 1U | UG/L | TOTAL XYLENES |
| 1U | UG/L | STYRENE |
| 1U | UG/L | BROMOFORM |
| NA | UG/L | ISOPROPYLBENZENE |
| 1U | UG/L | 1,1,2,2-TETRACHLOROETHANE |
| 1U | UG/L | 1,3-DICHLOROBENZENE |
| 1U | UG/L | 1,4-DICHLOROBENZENE |
| 1U | UG/L | 1,2-DICHLOROBENZENE |
| 1UR | UG/L | 1,2-DIBROMO-3-CHLOROPROPANE (DBCP) |
| 1U | UG/L | 1,2,4-TRICHLOROBENZENE |

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LATILES SAMPLE ANALYSIS [redacted] EPA - REGION IV GESD ATHENS GA [redacted] Production Date [redacted]/17[redacted]1 0[redacted]

Sample [redacted] FY 2001 Project: 01-0401

MISCELLANEOUS COMPOUNDS

Facility: Union County Landfill Monroe, NC
Program: SF Case No: 29011
Id/Station: UCL027TB /
Media: TRIP BLANK - WATER D No: 0G13 Org Contractor: MITKEM

Produced by: Goddard, Denise
Requestor:
Project Leader: GBENNETT
Beginning: 02/26/2001 10:30
Ending:

| RESULTS | UNITS | ANALYTE |
|---|---|---|
| 1U | UG/L | BROMOCHLOROEMTHANE |

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.