60-13

ENVIRO-PRO
PROFESSIONAL CORPORATION

August 21, 1997

Mr. Larry Griffin
North Mecklenburg Landfill
15300 Holbrooks Road
Huntersville, NC 28078

RE: Semi-annual Monitor Well Sampling Results
North Mecklenburg Landfill
Huntersville, NC
Project No. EP-1217

Dear Mr. Griffin:

Enviro-Pro, P.C. is pleased to submit this report which describes the field sampling activities and summarizes the semi-annual monitor well analytical results for the subject site.

Field Sampling Activities

On July 18, 1997, Enviro-Pro personnel collected groundwater samples from on-site perimeter monitor wells MW-1, MW-4, MW-5, MW-6, MW-10 and MW-11. The approximate locations of these wells are indicated on Figure 1.

The procedures for groundwater measurement and sampling were as follows:

1) Initially, the caps on the monitor wells were removed to allow the groundwater levels to equilibrate to the ambient atmospheric pressure. Next, the depth to groundwater from a measuring point on top of the well casing was recorded. Water level measurements were obtained using an electronic water level meter. The water level probe was decontaminated between monitor wells with deionized water.

2) At least three well volumes were removed from each monitor well to purge stagnant water and to ensure that fresh formation water would be sampled. The

15101 Regena Lane • Charlotte, NC 28278 • (704) 583-0075 • FAX (704) 583-2673

wells were purged using dedicated disposable Teflon bailers.

3) Each well was then sampled utilizing laboratory prepared containers, labeled, and packed on ice in a portable cooler for shipment to Pace Analytical Services, Inc., a North Carolina-certified laboratory, located in Huntersville, North Carolina. Chain-of-custody documentation is included with the analytical reports in Appendix A.

4) Quality assurance/quality control (QA/QC) measures in the field included wearing disposable sample gloves during sampling activities and changing them between sample locations to protect the groundwater samples from cross-contamination. Analytical (QA/QC) included a field blank and a trip blank analyzed for volatile organic compounds (EPA Method 8260).

The field information obtained is summarized on the Well Development, Purge, and Sample Record included as Appendix B. Groundwater levels rose 0.05 foot in well MW-5, but declined from 0.14 foot (MW-6) to 1.66 foot (MW-11) since the previous sampling event on April 11, 1997.

Laboratory Test Results

In accordance with regulatory requirements, the six monitor well samples were analyzed for the eight RCRA metals and volatile organic compounds (VOCs) via EPA Method 8260 by Pace Analytical. Laboratory data sheets are attached as Appendix B, with a summary of groundwater analytical results presented in Table 1.

Laboratory test results indicated that chromium and lead were identified slightly above their respective regulatory limits in monitor well MW-10. This was likely due to some turbidity in this sample. No VOC compounds were present above their respective detection limits in any of the well or QA/QC samples tested.

Enviro-Pro appreciates the opportunity to provide our environmental services on your project. Please contact me at (704) 583-0075 if you have any questions concerning this report or when we can be of further service.

Sincerely,
ENVIRO-PRO, P.C.

Thomas H. Bolyard

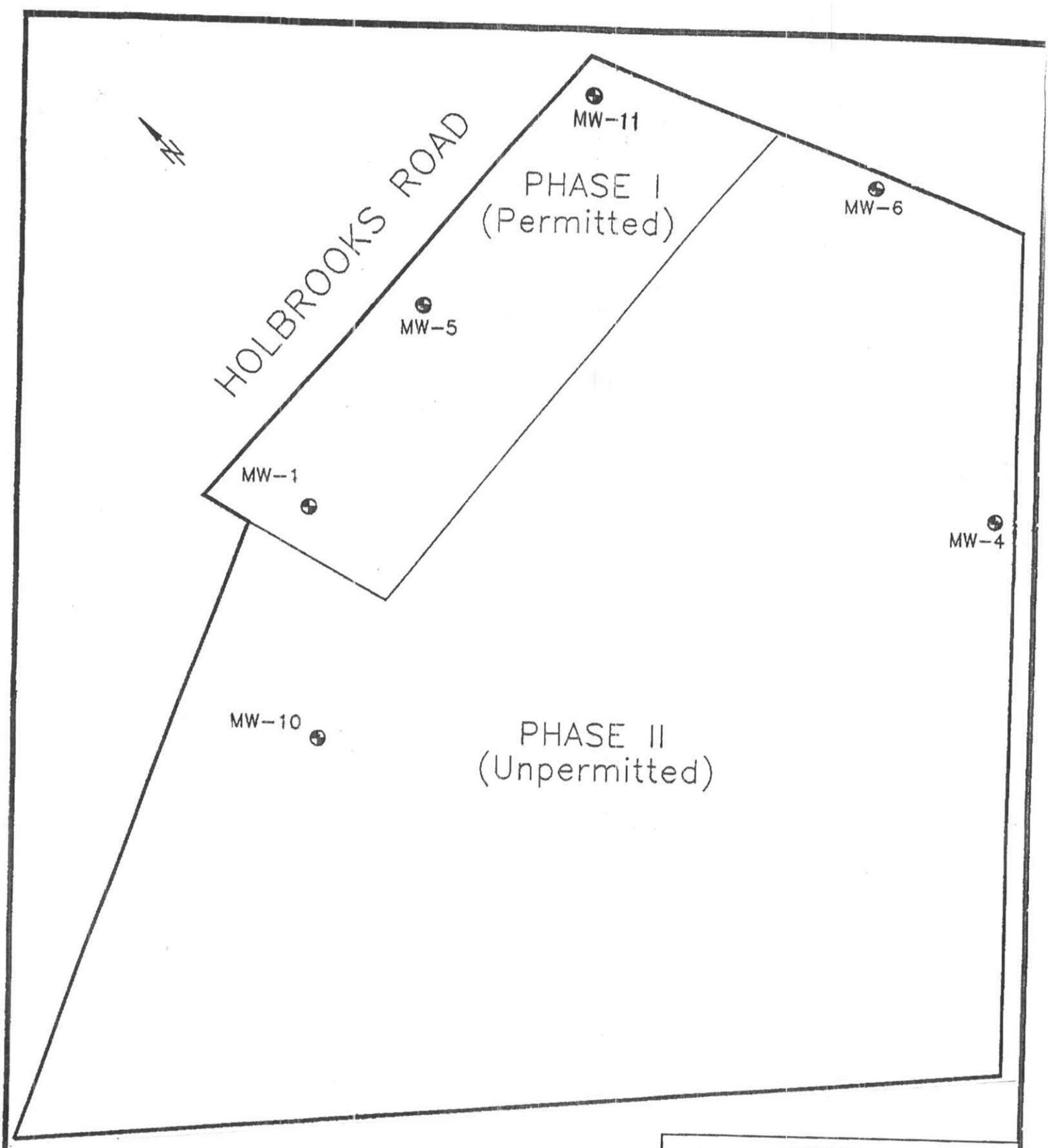
Thomas H. Bolyard, P.G.
Senior Hydrogeologist

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
North Mecklenburg Landfill
Huntersville, North Carolina
July 18,1997 Sampling Event

| | Sample I.D. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Parameter | MW-1 | MW-4 | MW-5 | MW-6 | MW-10 | MW-11 | Field Blank | Trip Blank | NCAC 2L Standard |
| Arsenic | BDL | BDL | BDL | BDL | BDL | BDL | NT | BDL | 0.05 |
| Barium | 0.42 | 0.10 | 0.031 | 0.039 | 0.52 | O.14 | NT | BDL | 2.0 |
| Cadmium | BDL | BDL | BDL | BDL | BDL | BDL | NT | BDL | 0.005 |
| Chromium | 0.032 | BDL | 0.025 | BDL | 0.056 | BDL | NT | BDL | 0.05 |
| Lead | 0.014 | 0.006 | 0.009 | 0.009 | 0.019 | 0.008 | NT | BDL | 0.015 |
| Mercury | BDL | 0.0002 | BDL | 0.0002 | BDL | BDL | NT | BDL | 0.0011 |
| Selenium | BDL | BDL | BDL | BDL | BDL | BDL | NT | BDL | 0.05 |
| Silver | BDL | BDL | BDL | BDL | BDL | BDL | NT | BDL | 0.018 |
| All 8260 Compounds | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | |

Notes: BDL = Below Detection Limits
NT = Not Tested
All Metals Results Are Presented in Parts Per Million




ENVIRO-PRO
PROFESSIONAL CORPORATION

FIGURE 1: SITE PLAN
N. Mecklenburg Landfill
Huntersville, NC

| PROJECT # | DRAWN BY | SCALE | DATE |
|---|---|---|---|
| EP-1217 | THB | 1"=200' | 9/23/96 |

**Pace Analytical**

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

August 04, 1997

Mr. Tom Bolyard
Enviro Pro
15101 Regena Lane
Charlotte, NC 28278

RE: PACE Project No. 670718.513
Client Reference: North Mecklenburg Landfill

Dear Mr. Bolyard:

Enclosed is the report of laboratory analyses for samples received July 18, 1997.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Kelly H. Wallace

Kelly H. Wallace
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

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# Pace Analytical

Enviro Pro
15101 Regena Lane
Charlotte, NC 28278

August 04, 1997
PACE Project Number: 670718513
NC Wastewater Lab Cert. #12
NC Drinkingwater Lab Cert. #37706
SC Lab Cert. #99006

Attn: Mr. Tom Bolyard

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144120 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-1 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| INORGANIC ANALYSIS | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | 0.42 | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | 0.032 | | 07/22/97 |
| Lead | mg/L | 0.005 | 0.014 | | 07/28/97 |
| Mercury | mg/L | 0.0002 | ND | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chloromethane | ug/L | 10 | ND | | 07/28/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/28/97 |
| Bromomethane | ug/L | 10 | ND | | 07/28/97 |
| Chloroethane | ug/L | 10 | ND | | 07/28/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/28/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/28/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/28/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |

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# Pace Analytical

Mr. Tom Bolyard
Page 2

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144120 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-1 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/28/97 |
| Benzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Trichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| Toluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| Styrene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/28/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144120 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-1 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/28/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/28/97 |
| Naphthalene | ug/L | 10 | ND | | 07/28/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Surrogate - Dibromofluoromethane | % | | 92 | | 07/28/97 |
| Surrogate - Toluene-d8 | % | | 96 | | 07/28/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 98 | | 07/28/97 |

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# Pace Analytical

Mr. Tom Bolyard
Page 4

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144139 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-4 | | |
| **INORGANIC ANALYSIS** | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | 0.10 | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | ND | | 07/22/97 |
| Lead | mg/L | 0.005 | 0.006 | | 07/28/97 |
| Mercury | mg/L | 0.0002 | 0.0002 | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| **ORGANIC ANALYSIS** | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chloromethane | ug/L | 10 | ND | | 07/28/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/28/97 |
| Bromomethane | ug/L | 10 | ND | | 07/28/97 |
| Chloroethane | ug/L | 10 | ND | | 07/28/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/28/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/28/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/28/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/28/97 |
| Benzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144139 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-4 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Trichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| Toluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| Styrene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/28/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |

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Mr. Tom Bolyard
Page 6

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144139 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-4 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/28/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/28/97 |
| Naphthalene | ug/L | 10 | ND | | 07/28/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Surrogate - Dibromofluoromethane | % | | 88 | | 07/28/97 |
| Surrogate - Toluene-d8 | % | | 97 | | 07/28/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 98 | | 07/28/97 |

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Tel: 704-875-9092
Fax: 704-875-9091

# Pace Analytical



August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144147 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-5 | | |
| **INORGANIC ANALYSIS** | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | 0.31 | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | 0.025 | | 07/22/97 |
| Lead | mg/L | 0.005 | 0.009 | | 07/28/97 |
| Mercury | mg/L | 0.0002 | ND | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| **ORGANIC ANALYSIS** | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chloromethane | ug/L | 10 | ND | | 07/28/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/28/97 |
| Bromomethane | ug/L | 10 | ND | | 07/28/97 |
| Chloroethane | ug/L | 10 | ND | | 07/28/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/28/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/28/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/28/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/28/97 |
| Benzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |

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Fax: 704-875-9091



August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144147 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-5 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Trichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| Toluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| Styrene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/28/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144147 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-5 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/28/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/28/97 |
| Naphthalene | ug/L | 10 | ND | | 07/28/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Surrogate - Dibromofluoromethane | % | | 89 | | 07/28/97 |
| Surrogate - Toluene-d8 | % | | 96 | | 07/28/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 96 | | 07/28/97 |

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# Pace Analytical

Mr. Tom Bolyard
Page 10

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144155 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-6 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| **INORGANIC ANALYSIS** | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | 0.039 | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | ND | | 07/22/97 |
| Lead | mg/L | 0.005 | 0.009 | | 07/28/97 |
| Mercury | mg/L | 0.0002 | 0.00026 | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| **ORGANIC ANALYSIS** | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chloromethane | ug/L | 10 | ND | | 07/28/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/28/97 |
| Bromomethane | ug/L | 10 | ND | | 07/28/97 |
| Chloroethane | ug/L | 10 | ND | | 07/28/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/28/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/28/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/28/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/28/97 |
| Benzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144155 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-6 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Trichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| Toluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| Styrene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/28/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144155 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-6 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/28/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/28/97 |
| Naphthalene | ug/L | 10 | ND | | 07/28/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Surrogate - Dibromofluoromethane | % | | 88 | | 07/28/97 |
| Surrogate - Toluene-d8 | % | | 98 | | 07/28/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 88 | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144163 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-10 | | |
| **INORGANIC ANALYSIS** | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | 0.52 | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | 0.056 | | 07/22/97 |
| Lead | mg/L | 0.005 | 0.019 | | 07/28/97 |
| Mercury | mg/L | 0.0002 | ND | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| **ORGANIC ANALYSIS** | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chloromethane | ug/L | 10 | ND | | 07/28/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/28/97 |
| Bromomethane | ug/L | 10 | ND | | 07/28/97 |
| Chloroethane | ug/L | 10 | ND | | 07/28/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/28/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/28/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/28/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/28/97 |
| Benzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144163 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-10 | | |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Trichloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/28/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| Toluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/28/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/28/97 |
| Styrene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/28/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/28/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/28/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144163 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-10 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/28/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/28/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/28/97 |
| Naphthalene | ug/L | 10 | ND | | 07/28/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/28/97 |
| Surrogate - Dibromofluoromethane | % | | 93 | | 07/28/97 |
| Surrogate - Toluene-d8 | % | | 96 | | 07/28/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 99 | | 07/28/97 |

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Mr. Tom Bolyard
Page 16

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144171 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-11 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| INORGANIC ANALYSIS | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | 0.14 | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | ND | | 07/22/97 |
| Lead | mg/L | 0.005 | 0.008 | | 07/28/97 |
| Mercury | mg/L | 0.0002 | ND | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/29/97 |
| Chloromethane | ug/L | 10 | ND | | 07/29/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/29/97 |
| Bromomethane | ug/L | 10 | ND | | 07/29/97 |
| Chloroethane | ug/L | 10 | ND | | 07/29/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/29/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/29/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/29/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/29/97 |
| Benzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/29/97 |

## REPORT OF LABORATORY ANALYSIS

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144171 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-11 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Trichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/29/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/29/97 |
| Toluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/29/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/29/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/29/97 |
| Styrene | ug/L | 5.0 | ND | | 07/29/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/29/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/29/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144171 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | MW-11 | | |
| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/29/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/29/97 |
| Naphthalene | ug/L | 10 | ND | | 07/29/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| Surrogate - Dibromofluoromethane | % | | 89 | | 07/29/97 |
| Surrogate - Toluene-d8 | % | | 99 | | 07/29/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 94 | | 07/29/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144180 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | Field Rinse | | |
| Parameter | Units | PRL | Blank | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/29/97 |
| Chloromethane | ug/L | 10 | ND | | 07/29/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/29/97 |
| Bromomethane | ug/L | 10 | ND | | 07/29/97 |
| Chloroethane | ug/L | 10 | ND | | 07/29/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/29/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/29/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/29/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/29/97 |
| Benzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Trichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/29/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/29/97 |
| Toluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/29/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/29/97 |

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# Pace Analytical

Mr. Tom Bolyard
Page 20

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | |
|---|---|
| PACE Sample Number: | 92 0144180 |
| Date Collected: | 07/18/97 |
| Date Received: | 07/18/97 |
| Client Sample ID: | Field Rinse Blank |

| Parameter | Units | PRL | | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/29/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/29/97 |
| Styrene | ug/L | 5.0 | ND | | 07/29/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/29/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/29/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/29/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/29/97 |
| Naphthalene | ug/L | 10 | ND | | 07/29/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| Surrogate - Dibromofluoromethane | % | | 90 | | 07/29/97 |
| Surrogate - Toluene-d8 | % | | 97 | | 07/29/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 94 | | 07/29/97 |

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# Pace Analytical



August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| Parameter | Units | PRL | PACE Sample Number: 92 0144198<br>Date Collected: 07/18/97<br>Date Received: 07/18/97<br>Client Sample ID: Trip Blank | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| INORGANIC ANALYSIS | | | | | |
| RCRA METALS | | | | | |
| Arsenic | mg/L | 0.005 | ND | | 07/21/97 |
| Barium | mg/L | 0.010 | ND | | 07/22/97 |
| Cadmium | mg/L | 0.010 | ND | | 07/22/97 |
| Chromium | mg/L | 0.010 | ND | | 07/22/97 |
| Lead | mg/L | 0.005 | ND | | 07/28/97 |
| Mercury | mg/L | 0.0002 | ND | | 08/01/97 |
| Selenium | mg/L | 0.005 | ND | | 07/31/97 |
| Silver | mg/L | 0.050 | ND | | 07/22/97 |
| Metal Digestion, Mercury | | | 07/31/97 | | |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Dichlorodifluoromethane | ug/L | 5.0 | ND | | 07/29/97 |
| Chloromethane | ug/L | 10 | ND | | 07/29/97 |
| Vinyl Chloride | ug/L | 10 | ND | | 07/29/97 |
| Bromomethane | ug/L | 10 | ND | | 07/29/97 |
| Chloroethane | ug/L | 10 | ND | | 07/29/97 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| Methylene chloride | ug/L | 5.0 | ND | | 07/29/97 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| 2,2-Dichloropropane | ug/L | 10 | ND | | 07/29/97 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| Chloroform | ug/L | 5.0 | ND | | 07/29/97 |
| Bromochloromethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | | 07/29/97 |
| Benzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | | 07/29/97 |

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August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | | | | | |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144198 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | Trip | | |
| Parameter | Units | PRL | Blank | METHOD | DATE ANALYZED |
| ORGANIC ANALYSIS | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| Trichloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| Bromodichloromethane | ug/L | 5.0 | ND | | 07/29/97 |
| Dibromomethane | ug/L | 5.0 | ND | | 07/29/97 |
| Toluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Tetrachloroethene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| Chlorodibromomethane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | | 07/29/97 |
| Chlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| Ethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | | 07/29/97 |
| o-Xylene | ug/L | 5.0 | ND | | 07/29/97 |
| Styrene | ug/L | 5.0 | ND | | 07/29/97 |
| Bromoform | ug/L | 5.0 | ND | | 07/29/97 |
| Isopropylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | | 07/29/97 |
| n-Propylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| Bromobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | | 07/29/97 |
| tert-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| sec-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |

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Mr. Tom Bolyard
Page 23

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| Parameter | Units | PRL | 92 0144198<br>07/18/97<br>07/18/97<br>Trip Blank | METHOD | DATE ANALYZED |
|---|---|---|---|---|---|
| PACE Sample Number: | | | 92 0144198 | | |
| Date Collected: | | | 07/18/97 | | |
| Date Received: | | | 07/18/97 | | |
| Client Sample ID: | | | Trip Blank | | |
| **ORGANIC ANALYSIS** | | | | | |
| VOLATILE ORGANICS | | | | 8260 | |
| n-Butylbenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | | 07/29/97 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | | 07/29/97 |
| Hexachlorobutadiene | ug/L | 10 | ND | | 07/29/97 |
| Naphthalene | ug/L | 10 | ND | | 07/29/97 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | | 07/29/97 |
| Surrogate - Dibromofluoromethane | % | | 91 | | 07/29/97 |
| Surrogate - Toluene-d8 | % | | 101 | | 07/29/97 |
| Surrogate - 4-Bromofluorobenzene | % | | 98 | | 07/29/97 |

RCRA Metals in Water
Analytical Methods: Barium, Cadmium, Chromium, Silver - 200.7
Lead - 239.2
Arsenic - 206.2
Selenium - 270.2
Mercury - 245.1

Digestion Methods: Metals - 200.2
Mercury - 245.1

These data have been reviewed and are approved for release.

Margaret S. Harding
Manager, Laboratory Operations

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FOOTNOTES
for pages 1 through 23

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | |
|---|---|
| ND | Not detected at or above the PRL. |
| PRL | PACE Reporting Limit |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

Arsenic
Batch: 92 61819
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163
92 0144171, 92 0144198

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920143280 | Duplicate of 92 0143280 | RPD |
|---|---|---|---|---|---|---|
| Arsenic | mg/L | 0.005 | ND | ND | ND | NC |

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920143280 | Spike | Spike Recv | Spike Dupl Recv | RPD |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/L | 0.005 | ND | 0.020 | 89% | 90% | 1% |

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| Arsenic | mg/L | 0.005 | 0.020 | 101% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

Lead
Batch: 92 62046
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920143280 | Duplicate of 92 0143280 | RPD |
|---|---|---|---|---|---|---|
| Lead | mg/L | 0.005 | ND | ND | ND | NC |

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920143280 | Spike | Spike Recv | Spike Dupl Recv | RPD |
|---|---|---|---|---|---|---|---|
| Lead | mg/L | 0.005 | ND | 0.020 | 102% | 108% | 6% |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | PRL | Reference Value | Recv | Dupl Recv | RPD |
|---|---|---|---|---|---|---|
| Lead | mg/L | 0.005 | 0.020 | 99% | 96% | 3% |

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Mr. Tom Bolyard
Page 27

QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

Lead
Batch: 92 62048
Samples: 92 0144163, 92 0144171, 92 0144198

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920144201 | Duplicate of 92 0144201 | RP |
|---|---|---|---|---|---|---|
| Lead | mg/L | 0.005 | ND | ND | ND | NC |

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920144201 | Spike | Spike Recv | Spike Dupl Recv | RP |
|---|---|---|---|---|---|---|---|
| Lead | mg/L | 0.005 | ND | 0.020 | 99% | 101% | 2 |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | PRL | Reference Value | Recv | Dupl Recv | RPD |
|---|---|---|---|---|---|---|
| Lead | mg/L | 0.005 | 0.020 | 93% | 97% | 4 |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

Mercury
Batch: 92 62215
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144171
92 0144198

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920146832 | Duplicate of 92 0146832 | RF |
|---|---|---|---|---|---|---|
| Mercury | mg/L | 0.0002 | ND | ND | ND | NC |

SPIKE:

| Parameter | Units | PRL | 920146832 | Spike | Spike Recv |
|---|---|---|---|---|---|
| Mercury | mg/L | 0.0002 | ND | 0.005 | 101% |

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| Mercury | mg/L | 0.0002 | 0.002 | 109% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

Mercury
Batch: 92 62217
Samples: 92 0144163

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920146816 | Duplicate of 92 0146816 | RP |
|---|---|---|---|---|---|---|
| Mercury | mg/L | 0.0002 | ND | ND | ND | NC |

SPIKE:

| Parameter | Units | PRL | 920146816 | Spike | Spike Recv |
|---|---|---|---|---|---|
| Mercury | mg/L | 0.0002 | ND | 0.005 | 95% |

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| Mercury | mg/L | 0.0002 | 0.002 | 111% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

Selenium
Batch: 92 62199
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163
92 0144171, 92 0144198

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920144171 MW-11 | Duplicate of 92 0144171 | RP |
|---|---|---|---|---|---|---|
| Selenium | mg/L | 0.005 | ND | ND | ND | NC |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | PRL | Reference Value | Recv | Dupl Recv | RPD |
|---|---|---|---|---|---|---|
| Selenium | mg/L | 0.005 | 0.020 | 90% | 89% | 1 |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

ICP QUALITY CONTROL
Batch: 92 61932
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920143329 | Duplicate of 92 0143329 | RPI |
|---|---|---|---|---|---|---|
| INDIVIDUAL PARAMETERS | | | | | | |
| Molybdenum | mg/L | 0.05 | | ND | ND | NC |
| Silver | mg/L | 0.050 | | ND | ND | NC |
| ICP QUALITY CONTROL | | | | | | |
| Zinc | mg/L | 0.010 | | 0.096 | 0.094 | 2% |
| Aluminum | mg/L | 0.10 | ND | | | |
| Antimony | mg/L | 0.20 | ND | | | |
| Arsenic | mg/L | 0.50 | ND | | | |
| Barium | mg/L | 0.010 | ND | | | |
| Beryllium | mg/L | 0.010 | ND | | | |
| Cadmium | mg/L | 0.010 | ND | | | |
| Calcium | mg/L | 0.10 | ND | | | |
| Chromium | mg/L | 0.010 | ND | | | |
| Cobalt | mg/L | 0.010 | ND | | | |
| Copper | mg/L | 0.010 | ND | | | |
| Iron | mg/L | 0.050 | ND | | | |
| Lead | mg/L | 0.10 | ND | | | |
| Magnesium | mg/L | 0.20 | ND | | | |
| Manganese | mg/L | 0.010 | ND | | | |
| Molybdenum | mg/L | 0.05 | ND | | | |
| Nickel | mg/L | 0.05 | ND | | | |
| Potassium | mg/L | 1.0 | ND | | | |
| Selenium | mg/L | 0.50 | ND | | | |
| Silver | mg/L | 0.050 | ND | | | |
| Sodium | mg/L | 0.20 | ND | | | |
| Thallium | mg/L | 0.50 | ND | | | |
| Tin | mg/L | 0.20 | ND | | | |
| Titanium | mg/L | 0.010 | ND | | | |
| Vanadium | mg/L | 0.010 | ND | | | |
| Zinc | mg/L | 0.010 | ND | | | |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

ICP QUALITY CONTROL
Batch: 92 61932
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920143329 | Spike | Spike Recv | Spike Dupl Recv | RPI |
|---|---|---|---|---|---|---|---|
| Aluminum | mg/L | 0.10 | ND | 50 | 95% | 95% | 0% |
| Antimony | mg/L | 0.20 | ND | 2.0 | 89% | 91% | 2% |
| Barium | mg/L | 0.010 | ND | 1.0 | 92% | 93% | 1% |
| Beryllium | mg/L | 0.010 | ND | 1.0 | 94% | 95% | 1% |
| Cadmium | mg/L | 0.010 | ND | 1.0 | 95% | 95% | 0% |
| Calcium | mg/L | 0.10 | 17 | 50 | 90% | 90% | 0% |
| Chromium | mg/L | 0.010 | ND | 1.0 | 92% | 94% | 2% |
| Cobalt | mg/L | 0.010 | ND | 1.0 | 91% | 92% | 1% |
| Copper | mg/L | 0.010 | ND | 1.0 | 94% | 94% | 0% |
| Iron | mg/L | 0.050 | 0.21 | 25 | 92% | 92% | 0% |
| Lead | mg/L | 0.10 | ND | 2.0 | 92% | 92% | 0% |
| Magnesium | mg/L | 0.20 | 3.8 | 25 | 96% | 96% | 0% |
| Manganese | mg/L | 0.010 | 0.016 | 1.0 | 92% | 92% | 0% |
| Molybdenum | mg/L | 0.05 | ND | 1.0 | 95% | 97% | 2% |
| Nickel | mg/L | 0.05 | ND | 1.0 | 91% | 92% | 1% |
| Potassium | mg/L | 1.0 | 14 | 50 | 92% | 92% | 0% |
| Selenium | mg/L | 0.50 | ND | 2.0 | 90% | 93% | 3% |
| Silver | mg/L | 0.050 | ND | 1.0 | 72% | 73% | 1% |
| Sodium | mg/L | 0.20 | 55 | 50 | 77% | 78% | 1% |
| Thallium | mg/L | 0.50 | ND | 2.0 | 95% | 93% | 2% |
| Titanium | mg/L | 0.010 | ND | 1.0 | 91% | 91% | 0% |
| Vanadium | mg/L | 0.010 | ND | 1.0 | 95% | 95% | 0% |
| Zinc | mg/L | 0.010 | 0.096 | 2.0 | 93% | 93% | 0% |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | PRL | Reference Value | Recv | Dupl Recv | RPD |
|---|---|---|---|---|---|---|
| Aluminum | mg/L | 0.10 | 50 | 100% | 100% | 0% |
| Antimony | mg/L | 0.20 | 2.0 | 95% | 96% | 1% |
| Barium | mg/L | 0.010 | 1.0 | 97% | 97% | 0% |
| Beryllium | mg/L | 0.010 | 1.0 | 99% | 99% | 0% |
| Boron | mg/L | 0.10 | 1.0 | 98% | 98% | 0% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

ICP QUALITY CONTROL
Batch: 92 61932
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | PRL | Reference Value | Recv | Dupl Recv | RPD |
|---|---|---|---|---|---|---|
| Cadmium | mg/L | 0.010 | 1.0 | 100% | 99% | 1 |
| Calcium | mg/L | 0.10 | 50 | 96% | 96% | 0 |
| Chromium | mg/L | 0.010 | 1.0 | 98% | 98% | 0 |
| Cobalt | mg/L | 0.010 | 1.0 | 96% | 96% | 0 |
| Copper | mg/L | 0.010 | 1.0 | 98% | 99% | 1 |
| Iron | mg/L | 0.050 | 25 | 97% | 97% | 0 |
| Lead | mg/L | 0.10 | 2.0 | 96% | 98% | 2 |
| Magnesium | mg/L | 0.20 | 25 | 101% | 101% | 0 |
| Manganese | mg/L | 0.010 | 1.0 | 97% | 97% | 0 |
| Molybdenum | mg/L | 0.05 | 1.0 | 99% | 100% | 1 |
| Nickel | mg/L | 0.05 | 1.0 | 97% | 97% | 0 |
| Potassium | mg/L | 1.0 | 50 | 98% | 99% | 1 |
| Selenium | mg/L | 0.50 | 2.0 | 97% | 97% | 0 |
| Silver | mg/L | 0.050 | 1.0 | 96% | 96% | 0 |
| Sodium | mg/L | 0.20 | 50 | 86% | 86% | 0 |
| Thallium | mg/L | 0.50 | 2.0 | 97% | 99% | 2 |
| Titanium | mg/L | 0.010 | 1.0 | 95% | 96% | 1 |
| Vanadium | mg/L | 0.010 | 1.0 | 99% | 100% | 1 |
| Zinc | mg/L | 0.010 | 2.0 | 99% | 99% | 0 |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

ICP QUALITY CONTROL
Batch: 92 61934
Samples: 92 0144171, 92 0144198

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920144171 MW-11 | Duplicate of 92 0144171 | RPD |
|---|---|---|---|---|---|---|
| INDIVIDUAL PARAMETERS | | | | | | |
| Cadmium | mg/L | 0.010 | | ND | ND | NC |
| Chromium | mg/L | 0.010 | | ND | ND | NC |
| Silver | mg/L | 0.050 | | ND | ND | NC |
| ICP QUALITY CONTROL | | | | | | |
| Barium | mg/L | 0.010 | | 0.14 | 0.14 | 0% |
| Aluminum | mg/L | 0.10 | ND | | | |
| Antimony | mg/L | 0.20 | ND | | | |
| Arsenic | mg/L | 0.50 | ND | | | |
| Barium | mg/L | 0.010 | ND | | | |
| Beryllium | mg/L | 0.010 | ND | | | |
| Cadmium | mg/L | 0.010 | ND | | | |
| Calcium | mg/L | 0.10 | ND | | | |
| Chromium | mg/L | 0.010 | ND | | | |
| Cobalt | mg/L | 0.010 | ND | | | |
| Copper | mg/L | 0.010 | ND | | | |
| Iron | mg/L | 0.050 | ND | | | |
| Lead | mg/L | 0.10 | ND | | | |
| Magnesium | mg/L | 0.20 | ND | | | |
| Manganese | mg/L | 0.010 | ND | | | |
| Molybdenum | mg/L | 0.05 | ND | | | |
| Nickel | mg/L | 0.05 | ND | | | |
| Potassium | mg/L | 1.0 | ND | | | |
| Selenium | mg/L | 0.50 | ND | | | |
| Silver | mg/L | 0.050 | ND | | | |
| Sodium | mg/L | 0.20 | ND | | | |
| Thallium | mg/L | 0.50 | ND | | | |
| Tin | mg/L | 0.20 | ND | | | |
| Titanium | mg/L | 0.010 | ND | | | |
| Vanadium | mg/L | 0.010 | ND | | | |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

ICP QUALITY CONTROL
Batch: 92 61934
Samples: 92 0144171, 92 0144198

METHOD BLANK AND SAMPLE DUPLICATE:

| Parameter | Units | PRL | Method Blank | 920144171 MW-11 | Duplicate of 92 0144171 | RPI |
|---|---|---|---|---|---|---|
| Zinc | mg/L | 0.010 | ND | | | |

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920144171 MW-11 | Spike | Spike Recv | Spike Dupl Recv | RPI |
|---|---|---|---|---|---|---|---|
| Aluminum | mg/L | 0.10 | 7.2 | 50 | 91% | 92% | 1% |
| Antimony | mg/L | 0.20 | ND | 2.0 | 80% | 81% | 1% |
| Barium | mg/L | 0.010 | 0.14 | 1.0 | 91% | 92% | 1% |
| Beryllium | mg/L | 0.010 | ND | 1.0 | 95% | 96% | 1% |
| Cadmium | mg/L | 0.010 | ND | 1.0 | 93% | 94% | 1% |
| Calcium | mg/L | 0.10 | 23 | 50 | 90% | 91% | 1% |
| Chromium | mg/L | 0.010 | ND | 1.0 | 93% | 94% | 1% |
| Cobalt | mg/L | 0.010 | ND | 1.0 | 92% | 92% | 0% |
| Copper | mg/L | 0.010 | 0.071 | 1.0 | 93% | 94% | 1% |
| Iron | mg/L | 0.050 | 11 | 25 | 89% | 90% | 1% |
| Lead | mg/L | 0.10 | ND | 2.0 | 93% | 93% | 0% |
| Magnesium | mg/L | 0.20 | 11 | 25 | 90% | 91% | 1% |
| Manganese | mg/L | 0.010 | 0.24 | 1.0 | 91% | 92% | 1% |
| Molybdenum | mg/L | 0.05 | ND | 1.0 | 92% | 93% | 1% |
| Nickel | mg/L | 0.05 | ND | 1.0 | 91% | 91% | 0% |
| Potassium | mg/L | 1.0 | 5.0 | 50 | 87% | 88% | 1% |
| Selenium | mg/L | 0.50 | ND | 2.0 | 89% | 87% | 2% |
| Silver | mg/L | 0.050 | ND | 1.0 | 57% | 58% | 2% |
| Sodium | mg/L | 0.20 | 18 | 50 | 79% | 80% | 1% |
| Thallium | mg/L | 0.50 | ND | 2.0 | 93% | 93% | 0% |
| Titanium | mg/L | 0.010 | 0.29 | 1.0 | 84% | 86% | 2% |
| Vanadium | mg/L | 0.010 | 0.024 | 1.0 | 94% | 95% | 1% |
| Zinc | mg/L | 0.010 | 0.055 | 2.0 | 89% | 90% | 1% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

ICP QUALITY CONTROL
Batch: 92 61934
Samples: 92 0144171, 92 0144198

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | PRL | Reference Value | Recv | Dupl Recv | RPD |
|---|---|---|---|---|---|---|
| Aluminum | mg/L | 0.10 | 50 | 96% | 96% | 0 |
| Antimony | mg/L | 0.20 | 2.0 | 93% | 95% | 2 |
| Barium | mg/L | 0.010 | 1.0 | 97% | 96% | 1 |
| Beryllium | mg/L | 0.010 | 1.0 | 99% | 99% | 0 |
| Boron | mg/L | 0.10 | 1.0 | 95% | 94% | 1 |
| Cadmium | mg/L | 0.010 | 1.0 | 97% | 98% | 1 |
| Calcium | mg/L | 0.10 | 50 | 96% | 96% | 0 |
| Chromium | mg/L | 0.010 | 1.0 | 97% | 98% | 1 |
| Cobalt | mg/L | 0.010 | 1.0 | 96% | 96% | 0 |
| Copper | mg/L | 0.010 | 1.0 | 98% | 98% | 0 |
| Iron | mg/L | 0.050 | 25 | 97% | 97% | 0 |
| Lead | mg/L | 0.10 | 2.0 | 96% | 97% | 1 |
| Magnesium | mg/L | 0.20 | 25 | 98% | 98% | 0 |
| Manganese | mg/L | 0.010 | 1.0 | 97% | 97% | 0 |
| Molybdenum | mg/L | 0.05 | 1.0 | 97% | 97% | 0 |
| Nickel | mg/L | 0.05 | 1.0 | 95% | 96% | 1 |
| Potassium | mg/L | 1.0 | 50 | 93% | 91% | 2 |
| Selenium | mg/L | 0.50 | 2.0 | 95% | 94% | 1 |
| Silver | mg/L | 0.050 | 1.0 | 97% | 96% | 1 |
| Sodium | mg/L | 0.20 | 50 | 85% | 85% | 0 |
| Thallium | mg/L | 0.50 | 2.0 | 98% | 98% | 0 |
| Titanium | mg/L | 0.010 | 1.0 | 95% | 95% | 0 |
| Vanadium | mg/L | 0.010 | 1.0 | 99% | 99% | 0 |
| Zinc | mg/L | 0.010 | 2.0 | 95% | 95% | 0 |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62072
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

METHOD BLANK:

| Parameter | Units | PRL | Method Blank |
|---|---|---|---|
| Dichlorodifluoromethane | ug/L | 5.0 | ND |
| Chloromethane | ug/L | 10 | ND |
| Vinyl Chloride | ug/L | 10 | ND |
| Bromomethane | ug/L | 10 | ND |
| Chloroethane | ug/L | 10 | ND |
| Trichlorofluoromethane | ug/L | 5.0 | ND |
| 1,1-Dichloroethene | ug/L | 5.0 | ND |
| Methylene chloride | ug/L | 5.0 | ND |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND |
| 1,1-Dichloroethane | ug/L | 5.0 | ND |
| 2,2-Dichloropropane | ug/L | 10 | ND |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND |
| Chloroform | ug/L | 5.0 | ND |
| Bromochloromethane | ug/L | 5.0 | ND |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND |
| Carbon Tetrachloride | ug/L | 5.0 | ND |
| 1,1-Dichloropropene | ug/L | 5.0 | ND |
| Benzene | ug/L | 5.0 | ND |
| 1,2-Dichloroethane | ug/L | 5.0 | ND |
| Trichloroethene | ug/L | 5.0 | ND |
| 1,2-Dichloropropane | ug/L | 5.0 | ND |
| Bromodichloromethane | ug/L | 5.0 | ND |
| Dibromomethane | ug/L | 5.0 | ND |
| Toluene | ug/L | 5.0 | ND |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND |
| Tetrachloroethene | ug/L | 5.0 | ND |
| 1,3-Dichloropropane | ug/L | 5.0 | ND |
| Chlorodibromomethane | ug/L | 5.0 | ND |
| 1,2-Dibromoethane | ug/L | 5.0 | ND |
| Chlorobenzene | ug/L | 5.0 | ND |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND |
| Ethylbenzene | ug/L | 5.0 | ND |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62072
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

METHOD BLANK:

| Parameter | Units | PRL | Method Blank |
|---|---|---|---|
| m-Xylene and p-Xylene | ug/L | 5.0 | ND |
| o-Xylene | ug/L | 5.0 | ND |
| Styrene | ug/L | 5.0 | ND |
| Bromoform | ug/L | 5.0 | ND |
| Isopropylbenzene | ug/L | 5.0 | ND |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND |
| n-Propylbenzene | ug/L | 5.0 | ND |
| Bromobenzene | ug/L | 5.0 | ND |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND |
| 2-Chlorotoluene | ug/L | 5.0 | ND |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND |
| 4-Chlorotoluene | ug/L | 5.0 | ND |
| tert-Butylbenzene | ug/L | 5.0 | ND |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND |
| sec-Butylbenzene | ug/L | 5.0 | ND |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND |
| p-Isopropyltoluene | ug/L | 5.0 | ND |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND |
| n-Butylbenzene | ug/L | 5.0 | ND |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND |
| Hexachlorobutadiene | ug/L | 10 | ND |
| Naphthalene | ug/L | 10 | ND |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND |
| Surrogate - Dibromofluoromethane | % | | 87 |
| Surrogate - Toluene-d8 | % | | 100 |
| Surrogate - 4-Bromofluorobenzene | % | | 93 |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62072
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920144163 MW-10 | Spike | Spike Recv | Spike Dupl Recv | RP |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L | 5.0 | ND | 50 | 94% | 96% | 2 |
| Chloromethane | ug/L | 10 | ND | 50 | 98% | 94% | 4 |
| Vinyl Chloride | ug/L | 10 | ND | 50 | 100% | 102% | 2 |
| Bromomethane | ug/L | 10 | ND | 50 | 120% | 122% | 2 |
| Chloroethane | ug/L | 10 | ND | 50 | 96% | 100% | 4 |
| Trichlorofluoromethane | ug/L | 5.0 | ND | 50 | 100% | 104% | 4 |
| 1,1-Dichloroethene | ug/L | 5.0 | ND | 50 | 104% | 104% | 0 |
| Methylene chloride | ug/L | 5.0 | ND | 50 | 100% | 100% | 0 |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND | 50 | 98% | 102% | 4 |
| 1,1-Dichloroethane | ug/L | 5.0 | ND | 50 | 102% | 106% | 4 |
| 2,2-Dichloropropane | ug/L | 10 | ND | 50 | 112% | 112% | 0 |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND | 50 | 104% | 108% | 4 |
| Chloroform | ug/L | 5.0 | ND | 50 | 106% | 108% | 2 |
| Bromochloromethane | ug/L | 5.0 | ND | 50 | 100% | 104% | 4 |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND | 50 | 102% | 108% | 6 |
| Carbon Tetrachloride | ug/L | 5.0 | ND | 50 | 104% | 108% | 4 |
| 1,1-Dichloropropene | ug/L | 5.0 | ND | 50 | 106% | 114% | 7 |
| Benzene | ug/L | 5.0 | ND | 50 | 102% | 104% | 2 |
| 1,2-Dichloroethane | ug/L | 5.0 | ND | 50 | 102% | 106% | 4 |
| Trichloroethene | ug/L | 5.0 | ND | 50 | 100% | 100% | 0 |
| 1,2-Dichloropropane | ug/L | 5.0 | ND | 50 | 106% | 108% | 2 |
| Bromodichloromethane | ug/L | 5.0 | ND | 50 | 96% | 102% | 6 |
| Dibromomethane | ug/L | 5.0 | ND | 50 | 100% | 102% | 2 |
| Toluene | ug/L | 5.0 | ND | 50 | 102% | 100% | 2 |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND | 50 | 100% | 102% | 2 |
| Tetrachloroethene | ug/L | 5.0 | ND | 50 | 96% | 100% | 4 |
| 1,3-Dichloropropane | ug/L | 5.0 | ND | 50 | 98% | 106% | 8 |
| Chlorodibromomethane | ug/L | 5.0 | ND | 50 | 98% | 108% | 10 |
| 1,2-Dibromoethane | ug/L | 5.0 | ND | 50 | 100% | 102% | 2 |
| Chlorobenzene | ug/L | 5.0 | ND | 50 | 104% | 104% | 0 |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND | 50 | 98% | 104% | 6 |

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Mr. Tom Bolyard
Page 40

QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62072
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

SPIKE AND SPIKE DUPLICATE:

| Parameter | Units | PRL | 920144163 MW-10 | Spike | Spike Recv | Spike Dupl Recv | RP |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | ug/L | 5.0 | ND | 50 | 96% | 100% | 4 |
| m-Xylene and p-Xylene | ug/L | 5.0 | ND | 100 | 96% | 101% | 5 |
| o-Xylene | ug/L | 5.0 | ND | 50 | 98% | 104% | 6 |
| Styrene | ug/L | 5.0 | ND | 50 | 98% | 100% | 2 |
| Bromoform | ug/L | 5.0 | ND | 50 | 102% | 112% | 9 |
| Isopropylbenzene | ug/L | 5.0 | ND | 50 | 112% | 116% | 4 |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND | 50 | 98% | 102% | 4 |
| n-Propylbenzene | ug/L | 5.0 | ND | 50 | 114% | 114% | 0 |
| Bromobenzene | ug/L | 5.0 | ND | 50 | 98% | 98% | 0 |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND | 50 | 96% | 98% | 2 |
| 2-Chlorotoluene | ug/L | 5.0 | ND | 50 | 96% | 102% | 6 |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND | 50 | 94% | 92% | 2 |
| 4-Chlorotoluene | ug/L | 5.0 | ND | 50 | 100% | 98% | 2 |
| tert-Butylbenzene | ug/L | 5.0 | ND | 50 | 100% | 98% | 2 |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND | 50 | 94% | 96% | 2 |
| sec-Butylbenzene | ug/L | 5.0 | ND | 50 | 100% | 98% | 2 |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND | 50 | 98% | 98% | 0 |
| p-Isopropyltoluene | ug/L | 5.0 | ND | 50 | 94% | 94% | 0 |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND | 50 | 122% | 118% | 3 |
| n-Butylbenzene | ug/L | 5.0 | ND | 50 | 116% | 114% | 2 |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND | 50 | 98% | 98% | 0 |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND | 50 | 100% | 108% | 8 |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND | 50 | 112% | 112% | 0 |
| Hexachlorobutadiene | ug/L | 10 | ND | 50 | 116% | 110% | 5 |
| Naphthalene | ug/L | 10 | ND | 50 | 112% | 114% | 2 |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND | 50 | 114% | 112% | 2 |



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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62072
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L | 5.0 | 20 | 75% |
| Chloromethane | ug/L | 10 | 20 | 120% |
| Vinyl Chloride | ug/L | 10 | 20 | 90% |
| Bromomethane | ug/L | 10 | 20 | 95% |
| Chloroethane | ug/L | 10 | 20 | 90% |
| Trichlorofluoromethane | ug/L | 5.0 | 20 | 100% |
| 1,1-Dichloroethene | ug/L | 5.0 | 20 | 100% |
| Methylene chloride | ug/L | 5.0 | 20 | 75% |
| trans-1,2-Dichloroethene | ug/L | 5.0 | 20 | 90% |
| 1,1-Dichloroethane | ug/L | 5.0 | 20 | 95% |
| 2,2-Dichloropropane | ug/L | 10 | 20 | 105% |
| cis-1,2-Dichloroethene | ug/L | 5.0 | 20 | 95% |
| Chloroform | ug/L | 5.0 | 20 | 100% |
| Bromochloromethane | ug/L | 5.0 | 20 | 100% |
| 1,1,1-Trichloroethane | ug/L | 5.0 | 20 | 100% |
| Carbon Tetrachloride | ug/L | 5.0 | 20 | 90% |
| 1,1-Dichloropropene | ug/L | 5.0 | 20 | 105% |
| Benzene | ug/L | 5.0 | 20 | 100% |
| 1,2-Dichloroethane | ug/L | 5.0 | 20 | 100% |
| Trichloroethene | ug/L | 5.0 | 20 | 100% |
| 1,2-Dichloropropane | ug/L | 5.0 | 20 | 105% |
| Bromodichloromethane | ug/L | 5.0 | 20 | 105% |
| Dibromomethane | ug/L | 5.0 | 20 | 90% |
| Toluene | ug/L | 5.0 | 20 | 100% |
| 1,1,2-Trichloroethane | ug/L | 5.0 | 20 | 105% |
| Tetrachloroethene | ug/L | 5.0 | 20 | 110% |
| 1,3-Dichloropropane | ug/L | 5.0 | 20 | 100% |
| Chlorodibromomethane | ug/L | 5.0 | 20 | 90% |
| 1,2-Dibromoethane | ug/L | 5.0 | 20 | 100% |
| Chlorobenzene | ug/L | 5.0 | 20 | 110% |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | 20 | 105% |
| Ethylbenzene | ug/L | 5.0 | 20 | 105% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62072
Samples: 92 0144120, 92 0144139, 92 0144147, 92 0144155, 92 0144163

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| m-Xylene and p-Xylene | ug/L | 5.0 | 40 | 113% |
| o-Xylene | ug/L | 5.0 | 20 | 110% |
| Styrene | ug/L | 5.0 | 20 | 110% |
| Bromoform | ug/L | 5.0 | 20 | 90% |
| Isopropylbenzene | ug/L | 5.0 | 20 | 120% |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | 20 | 105% |
| n-Propylbenzene | ug/L | 5.0 | 20 | 100% |
| Bromobenzene | ug/L | 5.0 | 20 | 100% |
| 1,2,3-Trichloropropane | ug/L | 5.0 | 20 | 105% |
| 2-Chlorotoluene | ug/L | 5.0 | 20 | 105% |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | 20 | 100% |
| 4-Chlorotoluene | ug/L | 5.0 | 20 | 105% |
| tert-Butylbenzene | ug/L | 5.0 | 20 | 100% |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | 20 | 100% |
| sec-Butylbenzene | ug/L | 5.0 | 20 | 100% |
| 1,3-Dichlorobenzene | ug/L | 5.0 | 20 | 110% |
| p-Isopropyltoluene | ug/L | 5.0 | 20 | 105% |
| 1,4-Dichlorobenzene | ug/L | 5.0 | 20 | 110% |
| n-Butylbenzene | ug/L | 5.0 | 20 | 105% |
| 1,2-Dichlorobenzene | ug/L | 5.0 | 20 | 100% |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | 20 | 95% |
| 1,2,4-Trichlorobenzene | ug/L | 10 | 20 | 105% |
| Hexachlorobutadiene | ug/L | 10 | 20 | 110% |
| Naphthalene | ug/L | 10 | 20 | 105% |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | 20 | 105% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62092
Samples: 92 0144171, 92 0144180, 92 0144198

METHOD BLANK:

| Parameter | Units | PRL | Method Blank |
|---|---|---|---|
| Dichlorodifluoromethane | ug/L | 5.0 | ND |
| Chloromethane | ug/L | 10 | ND |
| Vinyl Chloride | ug/L | 10 | ND |
| Bromomethane | ug/L | 10 | ND |
| Chloroethane | ug/L | 10 | ND |
| Trichlorofluoromethane | ug/L | 5.0 | ND |
| 1,1-Dichloroethene | ug/L | 5.0 | ND |
| Methylene chloride | ug/L | 5.0 | ND |
| trans-1,2-Dichloroethene | ug/L | 5.0 | ND |
| 1,1-Dichloroethane | ug/L | 5.0 | ND |
| 2,2-Dichloropropane | ug/L | 10 | ND |
| cis-1,2-Dichloroethene | ug/L | 5.0 | ND |
| Chloroform | ug/L | 5.0 | ND |
| Bromochloromethane | ug/L | 5.0 | ND |
| 1,1,1-Trichloroethane | ug/L | 5.0 | ND |
| Carbon Tetrachloride | ug/L | 5.0 | ND |
| 1,1-Dichloropropene | ug/L | 5.0 | ND |
| Benzene | ug/L | 5.0 | ND |
| 1,2-Dichloroethane | ug/L | 5.0 | ND |
| Trichloroethene | ug/L | 5.0 | ND |
| 1,2-Dichloropropane | ug/L | 5.0 | ND |
| Bromodichloromethane | ug/L | 5.0 | ND |
| Dibromomethane | ug/L | 5.0 | ND |
| Toluene | ug/L | 5.0 | ND |
| 1,1,2-Trichloroethane | ug/L | 5.0 | ND |
| Tetrachloroethene | ug/L | 5.0 | ND |
| 1,3-Dichloropropane | ug/L | 5.0 | ND |
| Chlorodibromomethane | ug/L | 5.0 | ND |
| 1,2-Dibromoethane | ug/L | 5.0 | ND |
| Chlorobenzene | ug/L | 5.0 | ND |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | ND |
| Ethylbenzene | ug/L | 5.0 | ND |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62092
Samples: 92 0144171, 92 0144180, 92 0144198

METHOD BLANK:

| Parameter | Units | PRL | Method Blank |
|---|---|---|---|
| m-Xylene and p-Xylene | ug/L | 5.0 | ND |
| o-Xylene | ug/L | 5.0 | ND |
| Styrene | ug/L | 5.0 | ND |
| Bromoform | ug/L | 5.0 | ND |
| Isopropylbenzene | ug/L | 5.0 | ND |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | ND |
| n-Propylbenzene | ug/L | 5.0 | ND |
| Bromobenzene | ug/L | 5.0 | ND |
| 1,2,3-Trichloropropane | ug/L | 5.0 | ND |
| 2-Chlorotoluene | ug/L | 5.0 | ND |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | ND |
| 4-Chlorotoluene | ug/L | 5.0 | ND |
| tert-Butylbenzene | ug/L | 5.0 | ND |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | ND |
| sec-Butylbenzene | ug/L | 5.0 | ND |
| 1,3-Dichlorobenzene | ug/L | 5.0 | ND |
| p-Isopropyltoluene | ug/L | 5.0 | ND |
| 1,4-Dichlorobenzene | ug/L | 5.0 | ND |
| n-Butylbenzene | ug/L | 5.0 | ND |
| 1,2-Dichlorobenzene | ug/L | 5.0 | ND |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | ND |
| 1,2,4-Trichlorobenzene | ug/L | 10 | ND |
| Hexachlorobutadiene | ug/L | 10 | ND |
| Naphthalene | ug/L | 10 | ND |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | ND |
| Surrogate - Dibromofluoromethane | % | | 89 |
| Surrogate - Toluene-d8 | % | | 96 |
| Surrogate - 4-Bromofluorobenzene | % | | 99 |



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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62092
Samples: 92 0144171, 92 0144180, 92 0144198

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L | 5.0 | 20 | 65% |
| Chloromethane | ug/L | 10 | 20 | 110% |
| Vinyl Chloride | ug/L | 10 | 20 | 80% |
| Bromomethane | ug/L | 10 | 20 | 95% |
| Chloroethane | ug/L | 10 | 20 | 85% |
| Trichlorofluoromethane | ug/L | 5.0 | 20 | 95% |
| 1,1-Dichloroethene | ug/L | 5.0 | 20 | 100% |
| Methylene chloride | ug/L | 5.0 | 20 | 75% |
| trans-1,2-Dichloroethene | ug/L | 5.0 | 20 | 95% |
| 1,1-Dichloroethane | ug/L | 5.0 | 20 | 95% |
| 2,2-Dichloropropane | ug/L | 10 | 20 | 105% |
| cis-1,2-Dichloroethene | ug/L | 5.0 | 20 | 95% |
| Chloroform | ug/L | 5.0 | 20 | 100% |
| Bromochloromethane | ug/L | 5.0 | 20 | 100% |
| 1,1,1-Trichloroethane | ug/L | 5.0 | 20 | 95% |
| Carbon Tetrachloride | ug/L | 5.0 | 20 | 100% |
| 1,1-Dichloropropene | ug/L | 5.0 | 20 | 100% |
| Benzene | ug/L | 5.0 | 20 | 100% |
| 1,2-Dichloroethane | ug/L | 5.0 | 20 | 100% |
| Trichloroethene | ug/L | 5.0 | 20 | 100% |
| 1,2-Dichloropropane | ug/L | 5.0 | 20 | 105% |
| Bromodichloromethane | ug/L | 5.0 | 20 | 100% |
| Dibromomethane | ug/L | 5.0 | 20 | 105% |
| Toluene | ug/L | 5.0 | 20 | 100% |
| 1,1,2-Trichloroethane | ug/L | 5.0 | 20 | 100% |
| Tetrachloroethene | ug/L | 5.0 | 20 | 105% |
| 1,3-Dichloropropane | ug/L | 5.0 | 20 | 95% |
| Chlorodibromomethane | ug/L | 5.0 | 20 | 95% |
| 1,2-Dibromoethane | ug/L | 5.0 | 20 | 100% |
| Chlorobenzene | ug/L | 5.0 | 20 | 100% |
| 1,1,1,2-Tetrachloroethane | ug/L | 5.0 | 20 | 105% |
| Ethylbenzene | ug/L | 5.0 | 20 | 100% |

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QUALITY CONTROL DATA

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

VOLATILE ORGANICS
Batch: 92 62092
Samples: 92 0144171, 92 0144180, 92 0144198

LABORATORY CONTROL SAMPLE:

| Parameter | Units | PRL | Reference Value | Recv |
|---|---|---|---|---|
| m-Xylene and p-Xylene | ug/L | 5.0 | 40 | 105% |
| o-Xylene | ug/L | 5.0 | 20 | 105% |
| Styrene | ug/L | 5.0 | 20 | 105% |
| Bromoform | ug/L | 5.0 | 20 | 95% |
| Isopropylbenzene | ug/L | 5.0 | 20 | 115% |
| 1,1,2,2-Tetrachloroethane | ug/L | 5.0 | 20 | 105% |
| n-Propylbenzene | ug/L | 5.0 | 20 | 95% |
| Bromobenzene | ug/L | 5.0 | 20 | 90% |
| 1,2,3-Trichloropropane | ug/L | 5.0 | 20 | 95% |
| 2-Chlorotoluene | ug/L | 5.0 | 20 | 95% |
| 1,3,5-Trimethylbenzene | ug/L | 5.0 | 20 | 90% |
| 4-Chlorotoluene | ug/L | 5.0 | 20 | 100% |
| tert-Butylbenzene | ug/L | 5.0 | 20 | 100% |
| 1,2,4-Trimethylbenzene | ug/L | 5.0 | 20 | 95% |
| sec-Butylbenzene | ug/L | 5.0 | 20 | 100% |
| 1,3-Dichlorobenzene | ug/L | 5.0 | 20 | 100% |
| p-Isopropyltoluene | ug/L | 5.0 | 20 | 100% |
| 1,4-Dichlorobenzene | ug/L | 5.0 | 20 | 100% |
| n-Butylbenzene | ug/L | 5.0 | 20 | 95% |
| 1,2-Dichlorobenzene | ug/L | 5.0 | 20 | 95% |
| 1,2-Dibromo-3-chloropropane | ug/L | 5.0 | 20 | 90% |
| 1,2,4-Trichlorobenzene | ug/L | 10 | 20 | 100% |
| Hexachlorobutadiene | ug/L | 10 | 20 | 100% |
| Naphthalene | ug/L | 10 | 20 | 90% |
| 1,2,3-Trichlorobenzene | ug/L | 5.0 | 20 | 95% |



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FOOTNOTES
for pages 25 through 46

August 04, 1997
PACE Project Number: 670718513

Client Reference: North Mecklenburg Landfill

| | |
|---|---|
| NC | No calculation due to value below detection limit. |
| ND | Not detected at or above the PRL. |
| PRL | PACE Reporting Limit |
| RPD | Relative Percent Difference |

REPORT OF LABORATORY ANALYSIS

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# Pace Analytical

371534

**CHAIN-OF-CUSTODY RECORD**
**Analytical Request**

Client: Enviro-Pro (North Mech landfill)
Address: 15101 Regena Ln
Charlotte, NC 28278
Phone: 583-0075

Report To: Tom Bolyard
Bill To: same
P.O. # / Billing Reference: EP-1217.
Project Name / No.: N. Mech. landfill

Pace Client No.: 613805
Pace Project Manager:
Pace Project No.: 10207818513
*Requested Due Date:

Sampled By (PRINT): Larry Geis
Sampler Signature: Larry A Geis
Date Sampled: 7/18/97

| ITEM NO. | SAMPLE DESCRIPTION | TIME | MATRIX | PACE NO. | NO. OF CONTAINERS | PRESERVATIVES: UNPRESERVED | $H_2SO_4$ | $HNO_3$ | VOA | | | ANALYSES REQUEST: 8260 | RCRA Metals | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | 1215 | water | | | | | | | | | X | X | 144120 |
| 2 | MW-4 | 1140 | | | | | | | | | | X | X | 144139 |
| 3 | MW-5 | 1202 | | | | | | | | | | X | X | 144147 |
| 4 | MW-6 | 1140 | | | | | | | | | | X | X | 144155 |
| 5 | MW-10 | 1226 | | | | | | | | | | X | X | 144163 |
| 6 | MW-11 | 1202 | | | | | | | | | | X | X | 144171 |
| 7 | Field Rinse Blank | 1254 | | | | | | | | | | X | | 144180 |
| 8 | Trip Blank | | | | | | | | | | | X | | 144198 |

| COOLER NOS. | BAILERS | SHIPMENT METHOD OUT/DATE | SHIPMENT METHOD RETURNED/DATE |
|---|---|---|---|
| 1 with samples | | | |

Additional Comments

| ITEM NUMBER | RELINQUISHED BY / AFFILIATION | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|
| 1-8 | Larry A Geis / E.P | Pace | 7/18/97 | 1300 |
| 1-8 | Pace | | | |

SEE REVERSE SIDE FOR INSTRUCTIONS

# WELL DEVELOPMENT, PURGE, AND SAMPLE RECORD

IENT: North Mecklenburg Landfill
CATION: 15300 Holbrooks Road
OJECT NAME/DESCRIPTION: N. Meck. Landfill
ATE OF WATER LEVEL MEASUREMENTS: 7-18-97

DEVELOP: ____
PURGING: ✓
SAMPLING: ✓

PROJECT NO.: EP-1217
PROJ. MGR.: TB
CHECKED BY: ____
PREPARED BY: TB

| Sample ID | A Well No. | B Sample Date | C Time (hrs) | D Well Depth (ft) | E MP Elevation (ft) | F Depth to Water (ft-bmp) | (E - F) = G Water Level Elevation (ft) | (D - F) = H Hgt. of Water Col. (ft) | I Volume of Water (gal)* | Vol. of Water Pgd. (gal)** | Temp. (°C) | Specific Cond. (umhos) | pH | Turbidity or Appearance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | 7-18-97 | 1215 | 25 | | 14.81 | | 10.19 | 1.66 | 5.0 | | | | |
| | MW-4 | " | 1140 | 42 | | 26.56 | | 15.44 | 2.52 | 7.60 | | | | |
| | MW-5 | " | 1202 | 55 | | 29.14 | | 25.86 | 4.22 | 12.70 | | | | |
| | MW-6 | " | 1140 | 67 | | 58.80 | | 8.20 | 1.34 | 4.0 | | | | |
| | MW-10 | " | 1226 | 19 | | 11.32 | | 7.68 | 1.25 | 3.80 | | | | |
| | MW-11 | " | 1202 | 80 | | 66.75 | | 13.25 | 2.16 | 6.50 | | | | |

omments:
To calculate volume of water in the well multiply "H" by 0.163 for a 2" well, 0.652 for a 4" well, or 1.469 for a 6" well.
To calculate purge volume, multiply "I" by the desired number of well volumes (e.g., 3 to 5).
g., after each well volume).