48 Patton Avenue, Suite 303
Asheville, North Carolina 28801
Telephone: (828) 281-3350 Facsimile: (828) 281-3351

The Fletcher Group

Transmittal Letter

Fac/Perm/Co ID #	Date	Doc ID#
NC	01/05/00	DIN

To: Mr. Mark Poindexter

From: John Chase

Date: December 29, 1999

cc:

Subject: Jackson Co. MSWL - Fall 1999 Semiannual Water Quality Monitoring Report

Contents:

Mr. Poindexter:

Enclosed is the Jackson County MSWL Fall 1999 Semiannual Water Quality Monitoring Report.

Please call me if you any questions or comments.

Sincerely,

John Chase

2000
Section

50-02

4-28-95

App I

ENVIRONMENTAL MAINTENANCE SYSTEMS

POST OFFICE BOX 1355
OLD HIGHWAY 107
CULLOWHEE, NC 28723

Telephone 704-293-9396

Jackson County						
401 Grindstaff Rd						
SYLVA, NC 28779						
Attn: Planning Office						
Client Reference:	Landfill Monitoring Wells					
DATE COLLECTED:				4/28/95	4/28/95	4/28/95
TIME:				12:45 PM	9:45 AM	10:30 AM
MONITORING WELL:				MW# 1	MW #2	MW #3
PARAMETER		UNITS	MDL			
FIELD ANALYSIS						
Individual Parameters						
Depth to Water		feet	0.01	90.61	27.62	51.68
Specific Conductivity (Field)		umhos/cm2	10	43.4	53.7	77.2
Temperature (Field)		degrees C	0.5	13	12.5	14
PH (Field)		units	0.1	5.8	6.1	5.7

SOLID WASTE SECTION
30

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Environmental Maintenance Systems
PO Box 1355
Old Hwy 107
Cullowhee, NC 28723

May 19, 1995
PACE Project Number: A50501501

Attn: Mr. Al Wike

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084559	
Date Collected:			04/28/95	
Date Received:			05/01/95	
			Well 1	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	ND	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	0.002	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	ND	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.024	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
Page 2

May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084567	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Well 2	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	ND	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	ND	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.024	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084575	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Well 3	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	ND	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	ND	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.011	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084583	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Well 4	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	0.468	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	0.012	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.018	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
Page 5

May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084591	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Well 5	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	0.150	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	0.014	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.012	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084605	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Upstream	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	ND	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	ND	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	0.002	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.022	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084613	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Downstream	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	ND	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	ND	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.037	05/15/95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

PACE Sample Number:			93 0084621	
Date Collected:			04/28/95	
Date Received:			05/01/95	
Client Sample ID:			Equipment	
Parameter	Units	MDL	Blank (1)	DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony	mg/L	0.004	ND	05/04/95
Arsenic	mg/L	0.005	ND	05/08/95
Barium	mg/L	0.10	ND	05/15/95
Beryllium	mg/L	0.002	ND	05/05/95
Cadmium	mg/L	0.001	ND	05/09/95
Chromium	mg/L	0.005	ND	05/02/95
Cobalt	mg/L	0.01	ND	05/15/95
Copper	mg/L	0.01	ND	05/15/95
Lead	mg/L	0.005	ND	05/04/95
Nickel	mg/L	0.05	ND	05/15/95
Selenium	mg/L	0.005	ND	05/03/95
Silver	mg/L	0.001	ND	05/15/95
Thallium	mg/L	0.002	ND	05/05/95
Vanadium	mg/L	0.04	ND	05/15/95
Zinc	mg/L	0.01	0.019	05/15/95

These data have been reviewed and are approved for release.

Barbara M. Miller

Barbara M. Miller
Supervisor, Inorganic Chemistry

54 Ravenscroft Drive
Asheville, NC 28801
TEL: 704-254-7176
FAX: 704-252-4618

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Mr. Al Wike
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FOOTNOTES
for pages 1 through 8

May 19, 1995
PACE Project Number: A50501501

Client Reference: Jackson Co. Landfill

MDL Method Detection Limit
ND Not detected at or above the MDL.
(1) Pace provided client with 2 bailers and equipment blank made using bailer A1. Client opened preserved equipment blanks in field, and re-rinsed a bailer with the water, and refilled blank containers. Pace VFW Lot ASH122894B.

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Environmental Maintenance Systems
P. O. Box 1355
Cullowhee, NC 28723

May 17, 1995
PACE Project Number: A50501501

Attn: Mr. Al Wike

~~Client Reference: EMS~~

PACE Sample Number:			93 0084559
Date Collected:			04/28/95
Date Received:			05/01/95
			Well 1
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	14
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
Page 2

May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084559
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 1
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		89
Surrogate - Toluene-d8	%		89
Surrogate - 4-Bromofluorobenzene	%		96

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
Page 3

May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084567
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 2
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084567
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 2
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		90
Surrogate - Toluene-d8	%		98
Surrogate - 4-Bromofluorobenzene	%		95

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REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
Page 5

May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084575
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 3
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

REPORT OF LABORATORY ANALYSIS

Mr. Al Wike
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May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084575
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 3
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		88
Surrogate - Toluene-d8	%		90
Surrogate - 4-Bromofluorobenzene	%		96

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May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084583
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 4
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	14
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	ug/L	5.0	ND
Trichloroethene	ug/L	5.0	5.7
1,2-Dichloropropane	ug/L	5.0	ND
Bromodichloromethane	ug/L	5.0	ND
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084583
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 4
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	9.3
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		89
Surrogate - Toluene-d8	%		94
Surrogate - 4-Bromofluorobenzene	%		95

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084591
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 5
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	6.5
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	52
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	9.3
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	ug/L	5.0	ND
Trichloroethene	ug/L	5.0	9.6
1,2-Dichloropropane	ug/L	5.0	ND
Bromodichloromethane	ug/L	5.0	ND
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084591
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Well 5
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	9.3
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	11
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		90
Surrogate - Toluene-d8	%		92
Surrogate - 4-Bromofluorobenzene	%		96

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May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084605
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Upstream
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084605
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Upstream
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		99
Surrogate - Toluene-d8	%		100
Surrogate - 4-Bromofluorobenzene	%		97

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084613
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Downstream
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084613
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Downstream
Parameter	Units	MDL	
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		96
Surrogate - Toluene-d8	%		101
Surrogate - 4-Bromofluorobenzene	%		98

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May 17, 1995
PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084621
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Equipment
Parameter	Units	MDL	Blank
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084621
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Equipment
Parameter	Units	MDL	Blank
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		95
Surrogate - Toluene-d8	%		100
Surrogate - 4-Bromofluorobenzene	%		97

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PACE Project Number: A50501501

Client Reference: EMS

Parameter	Units	MDL	
PACE Sample Number:			93 0084630
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Travel Blank
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	10	ND
1,1-Dichloroethene	ug/L	5.0	ND
Acetone	ug/L	100	ND
Methyl iodide	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
Dichloromethane	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Methyl ethyl ketone	ug/L	100	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
Benzene	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Dibromomethane	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
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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PACE Project Number: A50501501

Client Reference: EMS

PACE Sample Number:			93 0084630
Date Collected:			04/28/95
Date Received:			05/01/95
Client Sample ID:			Travel
Parameter	Units	MDL	Blank
ORGANIC ANALYSIS			
APPENDIX I, LANDFILL VOLATILES			
Tetrachloroethylene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, total	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		101
Surrogate - Toluene-d8	%		103
Surrogate - 4-Bromofluorobenzene	%		96

These data have been reviewed and are approved for release.

Walter L. Miller
General Manager

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FOOTNOTES
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PACE Project Number: A50501501

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MDL Method Detection Limit
ND Not detected at or above the MDL.

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