GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron, Q3, 1999
LOCATION: Grenada, MS
COLLECTOR (S): WS
WELL IDENTIFICATION: MW-2

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 13.04
TOP OF CASING TO BOTTOM: —
ELEVATION TOP OF CASING: —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-23-99, 1115
METHOD OF EVACUATION: Low Flow / Low Stress
PURGE/SAMPLING DEPTH (FEET B.T.O.C.) 15.0
TOTAL GALLONS EVACUATED: 5.0 gal
WATER LEVEL FOLLOWING EVACUATION: 13.16

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-23-99
METHOD OF SAMPLING: As above
WATER LEVEL FOLLOWING SAMPLING: 13.16
TYPE OF SAMPLE: GRAB: X COMPOSITE: OTHER:

SAMPLE REPRESENTATIVENESS DATA

TIME	CUMULATIVE VOLUME	TEMP.	pH	CONDUCTIVITY	TURBIDITY
1117	1.75	24°C	6.6	390	12.5
1117	2.0	24	6.6	402	—
1118	2.25	24	6.5	410	—
1119	2.5	24	6.5	418	10.0

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: Sunny, Hot
SAMPLE IDENTIFICATION: TAC-SWMU2-GW-02-04
CONTAINERS AND PRESERVATIVES: See chain of custody
COMMENTS AND OBSERVATIONS: Strong odor; bright yellow tint.

RECOMMENDATIONS:

CERTIFICATION

SIGNATURE: DATE:

Eco•Systems, Inc.

K.S. 01/97 23:00 C:\ACADWIN\OS\ASIZE1

GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron, Q3, 1999 LOCATION: Grenada, MS

COLLECTOR (S): WS WELL IDENTIFICATION: MW-4

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 13.05 TOP OF CASING TO BOTTOM: —

ELEVATION TOP OF CASING:

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-23-99, 811

METHOD OF EVACUATION: Peristaltic pump

PURGE/SAMPLING DEPTH (FEET B.T.O.C.) Top of Column

TOTAL GALLONS EVACUATED: 1.5

WATER LEVEL FOLLOWING EVACUATION: DRY

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-23-99, 1040

METHOD OF SAMPLING: As above

WATER LEVEL FOLLOWING SAMPLING: DRY

TYPE OF SAMPLE: GRAB: X COMPOSITE: OTHER:

SAMPLE REPRESENTATIVENESS DATA

TIME:	CUMULATIVE VOLUME:	TEMP.:	pH:	CONDUCTIVITY:	TURBIDITY:
TIME:	CUMULATIVE VOLUME:	TEMP.:	pH:	CONDUCTIVITY:	TURBIDITY:
TIME:	CUMULATIVE VOLUME:	TEMP.:	pH:	CONDUCTIVITY:	TURBIDITY:
TIME:	CUMULATIVE VOLUME:	TEMP.:	pH:	CONDUCTIVITY:	TURBIDITY:
TIME:	CUMULATIVE VOLUME:	TEMP.:	pH:	CONDUCTIVITY:	TURBIDITY:
TIME:	CUMULATIVE VOLUME:	TEMP.:	pH:	CONDUCTIVITY:	TURBIDITY:

NO Metering

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: Sunny, Hot

SAMPLE IDENTIFICATION: TAC-SWMU2-GW-04-04

CONTAINERS AND PRESERVATIVES: See chain of custody

COMMENTS AND OBSERVATIONS: Not enough water after recharge for metering - extremely slow recharge.

RECOMMENDATIONS:

CERTIFICATION

SIGNATURE: DATE: 7-23-99

Eco•Systems, Inc.

K.S. 01/[illegible]97 23:00 C:\ACADWIN\OS\ASIZE1

GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron, Q3 1999
LOCATION: Grenada, MS
COLLECTOR (S): WS
WELL IDENTIFICATION: MW-1

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 13.05
TOP OF CASING TO BOTTOM: —
ELEVATION TOP OF CASING: —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-23-99; 950
METHOD OF EVACUATION: Low Flow / Low Stress
PURGE/SAMPLING DEPTH (FEET B.T.O.C.) 17.5'
TOTAL GALLONS EVACUATED: 1.5
WATER LEVEL FOLLOWING EVACUATION: 13.15

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-23-99; 10:00
METHOD OF SAMPLING: As above
WATER LEVEL FOLLOWING SAMPLING: 13.15
TYPE OF SAMPLE: GRAB: X COMPOSITE: OTHER:

SAMPLE REPRESENTATIVENESS DATA

TIME	CUMULATIVE VOLUME	TEMP.	pH	CONDUCTIVITY	TURBIDITY
955	0.25	24°C	6.5	320	<6
957	0.35	24	6.3	329	—
958	0.45	24	6.2	330	—
959	0.5	24	6.2	330	<5

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: Sunny, Hot
SAMPLE IDENTIFICATION: TAC-SWMU2-GW-01-04
CONTAINERS AND PRESERVATIVES: See chain of custody
COMMENTS AND OBSERVATIONS: — Duplicate TAC-SWMU2-GW-01-04D taken w/ normal sample.
RECOMMENDATIONS: —

CERTIFICATION
SIGNATURE: [signature] DATE: 7-23-99

Eco•Systems, Inc.

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GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron, Q3 1999
LOCATION: Grenada, MS
COLLECTOR (S): WS
WELL IDENTIFICATION: MW-5

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 12.86
TOP OF CASING TO BOTTOM: —
ELEVATION TOP OF CASING: —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-23-99; 825
METHOD OF EVACUATION: Low Flow / Low Stress
PURGE/SAMPLING DEPTH (FEET B.T.O.C.) 16.5
TOTAL GALLONS EVACUATED: 1.5
WATER LEVEL FOLLOWING EVACUATION: 13.94

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-23-99; 840
METHOD OF SAMPLING: As above
WATER LEVEL FOLLOWING SAMPLING: 13.94
TYPE OF SAMPLE: GRAB: X COMPOSITE: OTHER:

SAMPLE REPRESENTATIVENESS DATA

TIME	CUMULATIVE VOLUME	TEMP.	pH	CONDUCTIVITY	TURBIDITY
827		24°C	8.0	320	<9
829	0.25	24	8.2	320	—
833	0.50	24	8.4	330	—
835	0.75	24	8.4	330	—
839	1.0	24	8.4	330	<9

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: Clear, Hot
SAMPLE IDENTIFICATION: TAC-SWMU2-GW-05-04
CONTAINERS AND PRESERVATIVES: See Chain of Custody
COMMENTS AND OBSERVATIONS: —

RECOMMENDATIONS: —

CERTIFICATION

SIGNATURE: WS DATE: 7-23-99

Eco•Systems, Inc.

K.S. 01/97 23:00 C:\ACADWIN\OSYASIZE1

ESI

ATTACHMENT B

LABORATORY ANALYTICAL DATA SHEETS

Pace Analytical

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
St. Rose, LA 70087

Tel: 504-469-0333
Fax: 504-469-0555

John Ryan
Eco-Systems, Incorporated/MS
4294 Lakeland Drive
Suite 200
Jackson, MS 39208

Project: TEXTRON Q399
Site:
Episode: SYZ

To: John Ryan

Enclosed please find the analytical results for sample(s) received by Pace Analytical Services, Inc. - New Orleans.

This report contains a summary of the quality control data associated with the analyses as well as copies of the chain-of-custody documents.

You may direct any inquires concerning this report to your Project Manager, or any one of the Project Managers listed below:

Ms. Karen H. Brown, Manager, Ext. 15
Mr. William R. Shackelford, Ext. 16
Ms. Cindy Olavesen, Ext. 25

Sincerely,

William R. Shackelford
Project Manager

8-5-99
Date

Enclosures

Narrative for Episode SYZ

Volatile Organics

The original report issued for episode SYZ included the results for samples SYZ-005, SYZ-006MS and SYZ-007MSD; these analyses were performed at dilutions. The original analyses of these samples were performed without dilution. Per the client's request these data have been submitted with the letter P added after the laboratory identification (SYZ-005P, SYZ-006MSP, and SYZ-007MSDP). These analyses were performed sequentially on the autosampler, overloading the volatile GCMS system and resulting in the possibility of cross contamination and loss of system integrity. The recoveries of the surrogate d8-toluene were poor in these original analyses due to matrix interferences. The concentrations of vinyl chloride and trichloroethene as well as another non-target analyte were significantly above the calibration range; these peaks were saturated and therefore may have interfered with the other target analytes. Matrix spike recoveries were also poor, particularly in the MSD which ran after the sample and the matrix spike.

Pace Analytical Services, Inc. - New Orleans
Sample Cross Reference Summary

Episode: SYZ Client: Eco-Systems, Incorporated/MS

Project: TEXTRON Q399

Site:

Lab ID	Client ID	Description	Matrix	Collected	Received
SYZ-001	SWMU2-GW-05-04		Water	07/23/99	07/24/99
SYZ-002	SWMU2-GW-01-04		Water	07/23/99	07/24/99
SYZ-003	SWMU2-GW-01-04D	DUPLICATE	Water	07/23/99	07/24/99
SYZ-004	SWMU2-GW-04-04		Water	07/23/99	07/24/99
SYZ-005	SWMU2-GW-02-04		Water	07/23/99	07/24/99
SYZ-006	SWMU2-GW-MS-04	MATRIX SPIKE	Water	07/23/99	07/24/99
SYZ-007	SWMU2-GW-MSD-04	MATRIX SPIKE DUP	Water	07/23/99	07/24/99
SYZ-008	SWMU2-AB-04		Water	07/23/99	07/24/99
SYZ-009	SWMU2-TB-04		Water	07/23/99	07/24/99

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-05-04
Project: TEXTRON Q399
Lab ID: SYZ-001
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** D1
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31194
Units: ug/l **Target List:** 8260AP9WAT

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 30-Jul-99 15:36 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.0	
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		50.0	
107-02-8	Acrolein (2-Propenal)	1	ND		10.0	
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		10.0	
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		5.00	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		10.0	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND		50.0	
124-48-1	Dibromochloromethane	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00	
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		50.0	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	12.1		5.00	
156-60-5	trans-1,2-Dichloroethene	1	10.4		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane	1	ND		500	
100-41-4	Ethylbenzene	1	ND		5.00	
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:37:41

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-05-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-001	**Episode:**	SYZ
Sample Qu:	D1		
Description:	None	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8260 Appendix IX Volatile Organics	**Prep Level:**	Water
Batch:	31194		
Units:	ug/l	**Target List:**	8260AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:		**Analyzed:**	30-Jul-99 15:36 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND		500	
126-98-7	Methacrylonitrile	1	ND		5.00	
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		10.0	
100-42-4	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene (Trichloroethylene)	20	3560	D1	100	
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride (Chloroethene)	1	113		10.0	
1330-20-7	Xylene (total)	1	ND		5.00	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-05-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-001	**Episode:**	SYZ
Sample Qu:			
Description:	None	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
Batch:	31141		
Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 17:39 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND		10.0	
208-96-8	Acenaphthylene	1	ND		10.0	
98-86-2	Acetophenone	1	ND		10.0	
53-96-3	2-Acetylaminofluorene	1	ND		10.0	
92-67-1	4-Aminobiphenyl	1	ND		10.0	
62-53-3	Aniline (Benzeneamine)	1	ND		10.0	
120-12-7	Anthracene	1	ND		10.0	
140-57-8	Aramite	1	ND		10.0	
56-55-3	Benzo(a)anthracene	1	ND		10.0	
205-99-2	Benzo(b)fluoranthene	1	ND		10.0	
207-08-09	Benzo(k)fluoranthene	1	ND		10.0	
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0	
50-32-8	Benzo(a)pyrene	1	ND		10.0	
100-51-6	Benzyl alcohol	1	ND		10.0	
101-55-3	4-Bromophenyl phenyl ether	1	ND		10.0	
85-68-7	Butylbenzylphthalate	1	ND		10.0	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		10.0	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		10.0	
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0	
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		10.0	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		10.0	
91-58-7	2-Chloronaphthalene	1	ND		10.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		10.0	
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		10.0	
218-01-9	Chrysene	1	ND		10.0	
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0	
132-64-9	Dibenzofuran	1	ND		10.0	
84-74-2	Di-n-butylphthalate	1	ND		10.0	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		10.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		10.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		10.0	
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	
120-83-2	2,4-Dichlorophenol	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-05-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-001	**Episode:**	SYZ
Sample Qu:			
Description:	None	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
Batch:	31141		
Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 17:39 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		10.0	
84-66-2	Diethylphthalate	1	ND		10.0	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		10.0	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		10.0	
119-93-7	3,3'-Dimethylbenzidine	1	ND		10.0	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		10.0	
105-67-9	2,4-Dimethylphenol	1	ND		10.0	
131-11-3	Dimethylphthalate	1	ND		10.0	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		10.0	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		25.0	
51-28-5	2,4-Dinitrophenol	1	ND		25.0	
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	
117-84-0	Di-n-octylphthalate	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		10.0	
62-50-0	Ethyl methanesulfonate	1	ND		10.0	
206-44-0	Fluoranthene	1	ND		10.0	
86-73-7	Fluorene	1	ND		10.0	
118-74-1	Hexachlorobenzene	1	ND		10.0	
87-68-3	Hexachlorobutadiene	1	ND		10.0	
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	
67-72-1	Hexachloroethane	1	ND		10.0	
70-30-4	Hexachlorophene	1	ND		10.0	
1888-71-7	Hexachloropropene	1	ND		10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0	
78-59-1	Isophorone	1	ND		10.0	
120-58-1	Isosafrole	1	ND		10.0	
91-80-5	Methapyrilene	1	ND		10.0	
56-49-5	3-Methylcholanthrene	1	ND		10.0	
80-62-6	Methyl methacrylate	1	ND		10.0	
66-27-3	Methyl methanesulfonate	1	ND		10.0	
91-57-6	2-Methylnaphthalene	1	ND		10.0	
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-05-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-001
Episode: SYZ
Sample Qu:
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 17:39 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0	
106-44-5	4-Methylphenol (p-Cresol)	1	ND		10.0	
91-20-3	Naphthalene	1	ND		10.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		10.0	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		10.0	
130-15-4	1,4-Naphthoquinone	1	ND		50.0	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		25.0	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		25.0	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		25.0	
98-95-3	Nitrobenzene	1	ND		10.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		10.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		25.0	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		10.0	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		10.0	
55-18-5	N-Nitrosodiethylamine	1	ND		10.0	
62-75-9	N-Nitrosodimethylamine	1	ND		10.0	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	10.0	
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	
10595-95-6	N-Nitrosomethylethylamine	1	ND		10.0	
59-89-2	N-Nitrosomorpholine	1	ND		10.0	
100-75-4	N-Nitrosopiperidine	1	ND		10.0	
930-55-2	N-Nitrosopyrrolidine	1	ND		10.0	
99-55-8	5-Nitro-o-toluidine	1	ND		10.0	
608-93-5	Pentachlorobenzene	1	ND		10.0	
76-01-7	Pentachloroethane	1	ND		10.0	
82-68-8	Pentachloronitrobenzene	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		25.0	
62-44-2	Phenacetin	1	ND		10.0	
85-01-8	Phenanthrene	1	ND		10.0	
108-95-2	Phenol	1	ND		10.0	
106-50-3	p-Phenylenediamine	1	ND		10.0	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		10.0	
23950-58-5	Pronamide	1	ND		10.0	
129-00-0	Pyrene	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-05-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-001
Episode: SYZ
Sample Qu:
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 17:39 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	ND		10.0	
94-59-7	Safrole	1	ND		10.0	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	
95-53-4	o-Toluidine	1	ND		10.0	
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0	
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0	
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		10.0	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-01-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-002
Episode: SYZ
Sample Qu:
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8260 Appendix IX Volatile Organics
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 02-Aug-99 12:39 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.0	
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		50.0	
107-02-8	Acrolein (2-Propenal)	1	ND		10.0	
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		10.0	
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		5.00	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		10.0	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND		50.0	
124-48-1	Dibromochloromethane	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00	
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		50.0	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane	1	ND		500	
100-41-4	Ethylbenzene	1	ND		5.00	
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-002	**Episode:**	SYZ
Sample Qu:			
Description:	None	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8260 Appendix IX Volatile Organics	**Prep Level:**	Water
Batch:	31194		
Units:	ug/l	**Target List:**	8260AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:		**Analyzed:**	02-Aug-99 12:39 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND		500	
126-98-7	Methacrylonitrile	1	ND		5.00	
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		10.0	
100-42-4	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene (Trichloroethylene)	1	128		5.00	
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.0	
1330-20-7	Xylene (total)	1	ND		5.00	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-01-04
Project: TEXTRON Q399
Lab ID: SYZ-002
Description: None
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT

Prep Factor: 1.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 14:12 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND		10.0	
208-96-8	Acenaphthylene	1	ND		10.0	
98-86-2	Acetophenone	1	ND		10.0	
53-96-3	2-Acetylaminofluorene	1	ND		10.0	
92-67-1	4-Aminobiphenyl	1	ND		10.0	
62-53-3	Aniline (Benzeneamine)	1	ND		10.0	
120-12-7	Anthracene	1	ND		10.0	
140-57-8	Aramite	1	ND		10.0	
56-55-3	Benzo(a)anthracene	1	ND		10.0	
205-99-2	Benzo(b)fluoranthene	1	ND		10.0	
207-08-09	Benzo(k)fluoranthene	1	ND		10.0	
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0	
50-32-8	Benzo(a)pyrene	1	ND		10.0	
100-51-6	Benzyl alcohol	1	ND		10.0	
101-55-3	4-Bromophenyl phenyl ether	1	ND		10.0	
85-68-7	Butylbenzylphthalate	1	ND		10.0	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		10.0	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		10.0	
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0	
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		10.0	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		10.0	
91-58-7	2-Chloronaphthalene	1	ND		10.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		10.0	
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		10.0	
218-01-9	Chrysene	1	ND		10.0	
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0	
132-64-9	Dibenzofuran	1	ND		10.0	
84-74-2	Di-n-butylphthalate	1	ND		10.0	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		10.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		10.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		10.0	
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	
120-83-2	2,4-Dichlorophenol	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-002	**Episode:**	SYZ
Sample Qu:			
Description:	None	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
Batch:	31141		
Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 14:12 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		10.0	
84-66-2	Diethylphthalate	1	ND		10.0	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		10.0	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		10.0	
119-93-7	3,3'-Dimethylbenzidine	1	ND		10.0	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		10.0	
105-67-9	2,4-Dimethylphenol	1	ND		10.0	
131-11-3	Dimethylphthalate	1	ND		10.0	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		10.0	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		25.0	
51-28-5	2,4-Dinitrophenol	1	ND		25.0	
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	
117-84-0	Di-n-octylphthalate	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	14.3		10.0	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		10.0	
62-50-0	Ethyl methanesulfonate	1	ND		10.0	
206-44-0	Fluoranthene	1	ND		10.0	
86-73-7	Fluorene	1	ND		10.0	
118-74-1	Hexachlorobenzene	1	ND		10.0	
87-68-3	Hexachlorobutadiene	1	ND		10.0	
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	
67-72-1	Hexachloroethane	1	ND		10.0	
70-30-4	Hexachlorophene	1	ND		10.0	
1888-71-7	Hexachloropropene	1	ND		10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0	
78-59-1	Isophorone	1	ND		10.0	
120-58-1	Isosafrole	1	ND		10.0	
91-80-5	Methapyrilene	1	ND		10.0	
56-49-5	3-Methylcholanthrene	1	ND		10.0	
80-62-6	Methyl methacrylate	1	ND		10.0	
66-27-3	Methyl methanesulfonate	1	ND		10.0	
91-57-6	2-Methylnaphthalene	1	ND		10.0	
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-01-04
Project: TEXTRON Q399
Lab ID: SYZ-002
Description: None
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT

Prep Factor: 1.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 14:12 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0	
106-44-5	4-Methylphenol (p-Cresol)	1	ND		10.0	
91-20-3	Naphthalene	1	ND		10.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		10.0	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		10.0	
130-15-4	1,4-Naphthoquinone	1	ND		50.0	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		25.0	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		25.0	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		25.0	
98-95-3	Nitrobenzene	1	ND		10.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		10.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		25.0	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		10.0	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		10.0	
55-18-5	N-Nitrosodiethylamine	1	ND		10.0	
62-75-9	N-Nitrosodimethylamine	1	ND		10.0	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	10.0	
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	
10595-95-6	N-Nitrosomethylethylamine	1	ND		10.0	
59-89-2	N-Nitrosomorpholine	1	ND		10.0	
100-75-4	N-Nitrosopiperidine	1	ND		10.0	
930-55-2	N-Nitrosopyrrolidine	1	ND		10.0	
99-55-8	5-Nitro-o-toluidine	1	ND		10.0	
608-93-5	Pentachlorobenzene	1	ND		10.0	
76-01-7	Pentachloroethane	1	ND		10.0	
82-68-8	Pentachloronitrobenzene	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		25.0	
62-44-2	Phenacetin	1	ND		10.0	
85-01-8	Phenanthrene	1	ND		10.0	
108-95-2	Phenol	1	ND		10.0	
106-50-3	p-Phenylenediamine	1	ND		10.0	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		10.0	
23950-58-5	Pronamide	1	ND		10.0	
129-00-0	Pyrene	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS		
Project:	TEXTRON Q399	**Site:**	None		
Lab ID:	SYZ-002	**Episode:**	SYZ	**Sample Qu:**	
Description:	None	**Matrix:**	Water	**% Moisture:**	n/a
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water	**Batch:**	31141
		Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	1.00 **Leached:** n/a	**Prepared:**	27-Jul-99	**Analyzed:**	30-Jul-99 14:12 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	ND		10.0	
94-59-7	Safrole	1	ND		10.0	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	
95-53-4	o-Toluidine	1	ND		10.0	
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0	
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0	
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		10.0	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04D	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-003	**Episode:**	SYZ
Description:	DUPLICATE	**Matrix:**	Water
Method:	SW 8260 Appendix IX Volatile Organics	**Prep Level:**	Water
		Units:	ug/l
Prep Factor:	1.00	**Leached:**	n/a
Prepared:		**Analyzed:**	02-Aug-99 13:08 KC
Sample Qu:			
% Moisture:	n/a		
Batch:	31194		
Target List:	8260AP9WAT		

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.0	
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		50.0	
107-02-8	Acrolein (2-Propenal)	1	ND		10.0	
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		10.0	
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		5.00	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		10.0	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND		50.0	
124-48-1	Dibromochloromethane	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00	
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		50.0	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane	1	ND		500	
100-41-4	Ethylbenzene	1	ND		5.00	
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-01-04D
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-003
Episode: SYZ
Sample Qu:
Description: DUPLICATE
Matrix: Water
% Moisture: n/a
Method: SW 8260 Appendix IX Volatile Organics
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 02-Aug-99 13:08 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND		500	
126-98-7	Methacrylonitrile	1	ND		5.00	
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		10.0	
100-42-4	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene (Trichloroethylene)	1	128		5.00	
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.0	
1330-20-7	Xylene (total)	1	ND		5.00	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04D	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-003	**Episode:**	SYZ
Sample Qu:			
Description:	DUPLICATE	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
Batch:	31141		
Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 14:54 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND		10.0	
208-96-8	Acenaphthylene	1	ND		10.0	
98-86-2	Acetophenone	1	ND		10.0	
53-96-3	2-Acetylaminofluorene	1	ND		10.0	
92-67-1	4-Aminobiphenyl	1	ND		10.0	
62-53-3	Aniline (Benzeneamine)	1	ND		10.0	
120-12-7	Anthracene	1	ND		10.0	
140-57-8	Aramite	1	ND		10.0	
56-55-3	Benzo(a)anthracene	1	ND		10.0	
205-99-2	Benzo(b)fluoranthene	1	ND		10.0	
207-08-09	Benzo(k)fluoranthene	1	ND		10.0	
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0	
50-32-8	Benzo(a)pyrene	1	ND		10.0	
100-51-6	Benzyl alcohol	1	ND		10.0	
101-55-3	4-Bromophenyl phenyl ether	1	ND		10.0	
85-68-7	Butylbenzylphthalate	1	ND		10.0	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		10.0	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		10.0	
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0	
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		10.0	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		10.0	
91-58-7	2-Chloronaphthalene	1	ND		10.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		10.0	
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		10.0	
218-01-9	Chrysene	1	ND		10.0	
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0	
132-64-9	Dibenzofuran	1	ND		10.0	
84-74-2	Di-n-butylphthalate	1	ND		10.0	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		10.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		10.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		10.0	
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	
120-83-2	2,4-Dichlorophenol	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04D	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-003	**Episode:**	SYZ
Sample Qu:			
Description:	DUPLICATE	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
Batch:	31141		
Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 14:54 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		10.0	
84-66-2	Diethylphthalate	1	ND		10.0	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		10.0	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		10.0	
119-93-7	3,3'-Dimethylbenzidine	1	ND		10.0	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		10.0	
105-67-9	2,4-Dimethylphenol	1	ND		10.0	
131-11-3	Dimethylphthalate	1	ND		10.0	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		10.0	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		25.0	
51-28-5	2,4-Dinitrophenol	1	ND		25.0	
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	
117-84-0	Di-n-octylphthalate	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		10.0	
62-50-0	Ethyl methanesulfonate	1	ND		10.0	
206-44-0	Fluoranthene	1	ND		10.0	
86-73-7	Fluorene	1	ND		10.0	
118-74-1	Hexachlorobenzene	1	ND		10.0	
87-68-3	Hexachlorobutadiene	1	ND		10.0	
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	
67-72-1	Hexachloroethane	1	ND		10.0	
70-30-4	Hexachlorophene	1	ND		10.0	
1888-71-7	Hexachloropropene	1	ND		10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0	
78-59-1	Isophorone	1	ND		10.0	
120-58-1	Isosafrole	1	ND		10.0	
91-80-5	Methapyrilene	1	ND		10.0	
56-49-5	3-Methylcholanthrene	1	ND		10.0	
80-62-6	Methyl methacrylate	1	ND		10.0	
66-27-3	Methyl methanesulfonate	1	ND		10.0	
91-57-6	2-Methylnaphthalene	1	ND		10.0	
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-01-04D
Project: TEXTRON Q399
Lab ID: SYZ-003
Description: DUPLICATE
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:**
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31141
Units: ug/l **Target List:** 8270AP9WAT

Prep Factor: 1.00 **Leached:** n/a
Prepared: 27-Jul-99 **Analyzed:** 30-Jul-99 14:54 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0	
106-44-5	4-Methylphenol (p-Cresol)	1	ND		10.0	
91-20-3	Naphthalene	1	ND		10.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		10.0	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		10.0	
130-15-4	1,4-Naphthoquinone	1	ND		50.0	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		25.0	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		25.0	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		25.0	
98-95-3	Nitrobenzene	1	ND		10.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		10.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		25.0	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		10.0	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		10.0	
55-18-5	N-Nitrosodiethylamine	1	ND		10.0	
62-75-9	N-Nitrosodimethylamine	1	ND		10.0	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	10.0	
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	
10595-95-6	N-Nitrosomethylethylamine	1	ND		10.0	
59-89-2	N-Nitrosomorpholine	1	ND		10.0	
100-75-4	N-Nitrosopiperidine	1	ND		10.0	
930-55-2	N-Nitrosopyrrolidine	1	ND		10.0	
99-55-8	5-Nitro-o-toluidine	1	ND		10.0	
608-93-5	Pentachlorobenzene	1	ND		10.0	
76-01-7	Pentachloroethane	1	ND		10.0	
82-68-8	Pentachloronitrobenzene	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		25.0	
62-44-2	Phenacetin	1	ND		10.0	
85-01-8	Phenanthrene	1	ND		10.0	
108-95-2	Phenol	1	ND		10.0	
106-50-3	p-Phenylenediamine	1	ND		10.0	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		10.0	
23950-58-5	Pronamide	1	ND		10.0	
129-00-0	Pyrene	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-01-04D	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-003	**Episode:**	SYZ
Description:	DUPLICATE	**Matrix:**	Water
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
		Units:	ug/l
Prep Factor:	1.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 14:54 JA
Sample Qu:			
% Moisture:	n/a		
Batch:	31141		
Target List:	8270AP9WAT		

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	ND		10.0	
94-59-7	Safrole	1	ND		10.0	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	
95-53-4	o-Toluidine	1	ND		10.0	
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0	
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0	
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		10.0	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-04-04
Project: TEXTRON Q399
Lab ID: SYZ-004
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** D1
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31194
Units: ug/l **Target List:** 8260AP9WAT

Prep Factor: 1.00 **Leached:** n/a
Prepared: **Analyzed:** 30-Jul-99 17:03 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.0	
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		50.0	
107-02-8	Acrolein (2-Propenal)	1	ND		10.0	
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		10.0	
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		5.00	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		10.0	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND		50.0	
124-48-1	Dibromochloromethane	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00	
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		50.0	
75-34-3	1,1-Dichloroethane	1	5.10		5.00	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	7.77		5.00	
156-60-5	trans-1,2-Dichloroethene	1	90.3		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane	1	ND		500	
100-41-4	Ethylbenzene	1	ND		5.00	
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-04-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-004
Episode: SYZ
Sample Qu: D1
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8260 Appendix IX Volatile Organics
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 30-Jul-99 17:03 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND		500	
126-98-7	Methacrylonitrile	1	ND		5.00	
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		10.0	
100-42-4	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene (Trichloroethylene)	20	286	D1	100	
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride (Chloroethene)	20	521	D1	200	
1330-20-7	Xylene (total)	1	ND		5.00	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-04-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-004
Episode: SYZ
Sample Qu: P1
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 1.09
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 15:35 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND		10.9	
208-96-8	Acenaphthylene	1	ND		10.9	
98-86-2	Acetophenone	1	ND		10.9	
53-96-3	2-Acetylaminofluorene	1	ND		10.9	
92-67-1	4-Aminobiphenyl	1	ND		10.9	
62-53-3	Aniline (Benzeneamine)	1	ND		10.9	
120-12-7	Anthracene	1	ND		10.9	
140-57-8	Aramite	1	ND		10.9	
56-55-3	Benzo(a)anthracene	1	ND		10.9	
205-99-2	Benzo(b)fluoranthene	1	ND		10.9	
207-08-09	Benzo(k)fluoranthene	1	ND		10.9	
191-24-2	Benzo(g,h,i)perylene	1	ND		10.9	
50-32-8	Benzo(a)pyrene	1	ND		10.9	
100-51-6	Benzyl alcohol	1	ND		10.9	
101-55-3	4-Bromophenyl phenyl ether	1	ND		10.9	
85-68-7	Butylbenzylphthalate	1	ND		10.9	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		10.9	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		10.9	
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.9	
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.9	
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		10.9	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		10.9	
91-58-7	2-Chloronaphthalene	1	ND		10.9	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		10.9	
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		10.9	
218-01-9	Chrysene	1	ND		10.9	
53-70-3	Dibenz(a,h)anthracene	1	ND		10.9	
132-64-9	Dibenzofuran	1	ND		10.9	
84-74-2	Di-n-butylphthalate	1	ND		10.9	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		10.9	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		10.9	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		10.9	
91-94-1	3,3'-Dichlorobenzidine	1	ND		21.8	
120-83-2	2,4-Dichlorophenol	1	ND		10.9	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-04-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-004
Episode: SYZ
Sample Qu: P1
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 1.09
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 15:35 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		10.9	
84-66-2	Diethylphthalate	1	ND		10.9	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		10.9	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		10.9	
119-93-7	3,3'-Dimethylbenzidine	1	ND		10.9	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		10.9	
105-67-9	2,4-Dimethylphenol	1	ND		10.9	
131-11-3	Dimethylphthalate	1	ND		10.9	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		10.9	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		27.3	
51-28-5	2,4-Dinitrophenol	1	ND		27.3	
121-14-2	2,4-Dinitrotoluene	1	ND		10.9	
606-20-2	2,6-Dinitrotoluene	1	ND		10.9	
117-84-0	Di-n-octylphthalate	1	ND		10.9	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.9	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		10.9	
62-50-0	Ethyl methanesulfonate	1	ND		10.9	
206-44-0	Fluoranthene	1	ND		10.9	
86-73-7	Fluorene	1	ND		10.9	
118-74-1	Hexachlorobenzene	1	ND		10.9	
87-68-3	Hexachlorobutadiene	1	ND		10.9	
77-47-4	Hexachlorocyclopentadiene	1	ND		10.9	
67-72-1	Hexachloroethane	1	ND		10.9	
70-30-4	Hexachlorophene	1	ND		10.9	
1888-71-7	Hexachloropropene	1	ND		10.9	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.9	
78-59-1	Isophorone	1	ND		10.9	
120-58-1	Isosafrole	1	ND		10.9	
91-80-5	Methapyrilene	1	ND		10.9	
56-49-5	3-Methylcholanthrene	1	ND		10.9	
80-62-6	Methyl methacrylate	1	ND		10.9	
66-27-3	Methyl methanesulfonate	1	ND		10.9	
91-57-6	2-Methylnaphthalene	1	ND		10.9	
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.9	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-04-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-004
Episode: SYZ
Sample Qu: P1
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 1.09
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 15:35 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.9	
106-44-5	4-Methylphenol (p-Cresol)	1	ND		10.9	
91-20-3	Naphthalene	1	ND		10.9	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		10.9	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		10.9	
130-15-4	1,4-Naphthoquinone	1	ND		54.5	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		27.3	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		27.3	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		27.3	
98-95-3	Nitrobenzene	1	ND		10.9	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		10.9	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		27.3	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		10.9	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		10.9	
55-18-5	N-Nitrosodiethylamine	1	ND		10.9	
62-75-9	N-Nitrosodimethylamine	1	ND		10.9	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	10.9	
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.9	
10595-95-6	N-Nitrosomethylethylamine	1	ND		10.9	
59-89-2	N-Nitrosomorpholine	1	ND		10.9	
100-75-4	N-Nitrosopiperidine	1	ND		10.9	
930-55-2	N-Nitrosopyrrolidine	1	ND		10.9	
99-55-8	5-Nitro-o-toluidine	1	ND		10.9	
608-93-5	Pentachlorobenzene	1	ND		10.9	
76-01-7	Pentachloroethane	1	ND		10.9	
82-68-8	Pentachloronitrobenzene	1	ND		10.9	
87-86-5	Pentachlorophenol	1	ND		27.3	
62-44-2	Phenacetin	1	ND		10.9	
85-01-8	Phenanthrene	1	ND		10.9	
108-95-2	Phenol	1	ND		10.9	
106-50-3	p-Phenylenediamine	1	ND		10.9	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		10.9	
23950-58-5	Pronamide	1	ND		10.9	
129-00-0	Pyrene	1	ND		10.9	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-04-04
Project: TEXTRON Q399
Lab ID: SYZ-004
Description: None
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** P1
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31141
Units: ug/l **Target List:** 8270AP9WAT

Prep Factor: 1.09 **Leached:** n/a
Prepared: 27-Jul-99 **Analyzed:** 30-Jul-99 15:35 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	ND		10.9	
94-59-7	Safrole	1	ND		10.9	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.9	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.9	
95-53-4	o-Toluidine	1	ND		10.9	
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.9	
95-95-4	2,4,5-Trichlorophenol	1	ND		27.3	
88-06-2	2,4,6-Trichlorophenol	1	ND		10.9	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		10.9	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** D6
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31194
Units: ug/l **Target List:** 8260AP9WAT

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 02-Aug-99 14:39 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	200	ND		2000	
75-05-8	Acetonitrile (Methyl cyanide)	200	ND		10000	
107-02-8	Acrolein (2-Propenal)	200	ND		2000	
107-13-1	Acrylonitrile (2-Propenenitrile)	200	ND		2000	
107-05-1	Allyl chloride (3-Chloropropene)	200	ND		1000	
71-43-2	Benzene	200	ND		1000	
75-27-4	Bromodichloromethane	200	ND		1000	
75-25-2	Bromoform	200	ND		1000	
74-83-9	Bromomethane (Methyl bromide)	200	ND		2000	
78-93-3	2-Butanone (Methyl ethyl ketone)	200	ND		2000	
75-15-0	Carbon disulfide	200	ND		1000	
56-23-5	Carbon tetrachloride	200	ND		1000	
108-90-7	Chlorobenzene	200	ND		1000	
75-00-3	Chloroethane	200	ND		2000	
67-66-3	Chloroform	200	ND		1000	
74-87-3	Chloromethane (Methyl chloride)	200	ND		2000	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	200	ND		10000	
124-48-1	Dibromochloromethane	200	ND		1000	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	200	ND		1000	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	200	ND		1000	
74-95-3	Dibromomethane (Methylene bromide)	200	ND		1000	
110-57-6	trans-1,4-Dichloro-2-butene	200	ND		1000	
75-71-8	Dichlorodifluoromethane (Freon 12)	200	ND		10000	
75-34-3	1,1-Dichloroethane	200	ND		1000	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	200	ND		1000	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	200	ND		1000	
156-60-5	trans-1,2-Dichloroethene	200	ND		1000	
78-87-5	1,2-Dichloropropane	200	ND		1000	
10061-01-5	cis-1,3-Dichloropropene	200	ND		1000	
10061-02-6	trans-1,3-Dichloropropene	200	ND		1000	
123-91-1	1,4-Dioxane	200	ND		100000	
100-41-4	Ethylbenzene	200	ND		1000	
591-78-6	2-Hexanone	200	ND		2000	
74-88-4	Iodomethane (Methyl iodide)	200	ND		1000	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-02-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-005	**Episode:**	SYZ
		Sample Qu:	D6
Description:	None	**Matrix:**	Water
		% Moisture:	n/a
Method:	SW 8260 Appendix IX Volatile Organics	**Prep Level:**	Water
		Batch:	31194
		Units:	ug/l
		Target List:	8260AP9WAT
Prep Factor:	1.00	**Leached:**	n/a
		Prepared:	
		Analyzed:	02-Aug-99 14:39 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	200	ND		100000	
126-98-7	Methacrylonitrile	200	ND		1000	
75-09-2	Methylene chloride (Dichloromethane)	200	ND		1000	
108-10-1	4-Methyl-2-pentanone (MIBK)	200	ND		2000	
107-12-0	Propionitrile (Ethyl cyanide)	200	ND		2000	
100-42-4	Styrene	200	ND		1000	
630-20-6	1,1,1,2-Tetrachloroethane	200	ND		1000	
79-34-5	1,1,2,2-Tetrachloroethane	200	ND		1000	
127-18-4	Tetrachloroethene (Perchloroethylene)	200	ND		1000	
108-88-3	Toluene	200	ND		1000	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	200	ND		1000	
79-00-5	1,1,2-Trichloroethane	200	ND		1000	
79-01-6	Trichloroethene (Trichloroethylene)	200	22500		1000	
75-69-4	Trichlorofluoromethane (Freon 11)	200	ND		1000	
96-18-4	1,2,3-Trichloropropane	200	ND		1000	
108-05-4	Vinyl acetate	200	ND		2000	
75-01-4	Vinyl chloride (Chloroethene)	200	3280		2000	
1330-20-7	Xylene (total)	200	ND		1000	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-005
Episode: SYZ
Sample Qu:
Description: None
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 16:16 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND		10.0	
208-96-8	Acenaphthylene	1	ND		10.0	
98-86-2	Acetophenone	1	ND		10.0	
53-96-3	2-Acetylaminofluorene	1	ND		10.0	
92-67-1	4-Aminobiphenyl	1	ND		10.0	
62-53-3	Aniline (Benzeneamine)	1	ND		10.0	
120-12-7	Anthracene	1	ND		10.0	
140-57-8	Aramite	1	ND		10.0	
56-55-3	Benzo(a)anthracene	1	ND		10.0	
205-99-2	Benzo(b)fluoranthene	1	ND		10.0	
207-08-09	Benzo(k)fluoranthene	1	ND		10.0	
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0	
50-32-8	Benzo(a)pyrene	1	ND		10.0	
100-51-6	Benzyl alcohol	1	ND		10.0	
101-55-3	4-Bromophenyl phenyl ether	1	ND		10.0	
85-68-7	Butylbenzylphthalate	1	ND		10.0	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		10.0	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		10.0	
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0	
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		10.0	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		10.0	
91-58-7	2-Chloronaphthalene	1	ND		10.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		10.0	
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		10.0	
218-01-9	Chrysene	1	ND		10.0	
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0	
132-64-9	Dibenzofuran	1	ND		10.0	
84-74-2	Di-n-butylphthalate	1	ND		10.0	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		10.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		10.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		10.0	
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	
120-83-2	2,4-Dichlorophenol	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005
Description: None
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 27-Jul-99 **Analyzed:** 30-Jul-99 16:16 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		10.0	
84-66-2	Diethylphthalate	1	ND		10.0	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		10.0	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		10.0	
119-93-7	3,3'-Dimethylbenzidine	1	ND		10.0	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		10.0	
105-67-9	2,4-Dimethylphenol	1	ND		10.0	
131-11-3	Dimethylphthalate	1	ND		10.0	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		10.0	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		25.0	
51-28-5	2,4-Dinitrophenol	1	ND		25.0	
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	
117-84-0	Di-n-octylphthalate	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		10.0	
62-50-0	Ethyl methanesulfonate	1	ND		10.0	
206-44-0	Fluoranthene	1	ND		10.0	
86-73-7	Fluorene	1	ND		10.0	
118-74-1	Hexachlorobenzene	1	ND		10.0	
87-68-3	Hexachlorobutadiene	1	ND		10.0	
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	
67-72-1	Hexachloroethane	1	ND		10.0	
70-30-4	Hexachlorophene	1	ND		10.0	
1888-71-7	Hexachloropropene	1	ND		10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0	
78-59-1	Isophorone	1	ND		10.0	
120-58-1	Isosafrole	1	ND		10.0	
91-80-5	Methapyrilene	1	ND		10.0	
56-49-5	3-Methylcholanthrene	1	ND		10.0	
80-62-6	Methyl methacrylate	1	ND		10.0	
66-27-3	Methyl methanesulfonate	1	ND		10.0	
91-57-6	2-Methylnaphthalene	1	16.2		10.0	
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005
Description: None
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:**
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31141
Units: ug/l **Target List:** 8270AP9WAT

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 27-Jul-99 **Analyzed:** 30-Jul-99 16:16 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0	
106-44-5	4-Methylphenol (p-Cresol)	1	ND		10.0	
91-20-3	Naphthalene	1	13.2		10.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		10.0	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		10.0	
130-15-4	1,4-Naphthoquinone	1	ND		50.0	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		25.0	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		25.0	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		25.0	
98-95-3	Nitrobenzene	1	ND		10.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		10.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		25.0	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		10.0	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		10.0	
55-18-5	N-Nitrosodiethylamine	1	ND		10.0	
62-75-9	N-Nitrosodimethylamine	1	ND		10.0	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	10.0	
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	
10595-95-6	N-Nitrosomethylethylamine	1	ND		10.0	
59-89-2	N-Nitrosomorpholine	1	ND		10.0	
100-75-4	N-Nitrosopiperidine	1	ND		10.0	
930-55-2	N-Nitrosopyrrolidine	1	ND		10.0	
99-55-8	5-Nitro-o-toluidine	1	ND		10.0	
608-93-5	Pentachlorobenzene	1	ND		10.0	
76-01-7	Pentachloroethane	1	ND		10.0	
82-68-8	Pentachloronitrobenzene	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		25.0	
62-44-2	Phenacetin	1	ND		10.0	
85-01-8	Phenanthrene	1	ND		10.0	
108-95-2	Phenol	1	ND		10.0	
106-50-3	p-Phenylenediamine	1	ND		10.0	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		10.0	
23950-58-5	Pronamide	1	ND		10.0	
129-00-0	Pyrene	1	ND		10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005
Description: None
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:**
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31141
Units: ug/l **Target List:** 8270AP9WAT

Prep Factor: 1.00 **Leached:** n/a
Prepared: 27-Jul-99 **Analyzed:** 30-Jul-99 16:16 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	ND		10.0	
94-59-7	Safrole	1	ND		10.0	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	
95-53-4	o-Toluidine	1	ND		10.0	
120-82-1	1,2,4-Trichlorobenzene	1	10.0		10.0	
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0	
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		10.0	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005P
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT

Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 30-Jul-99 17:32 DE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND	N	10.0	
75-05-8	Acetonitrile (Methyl cyanide)	1	ND	N	50.0	
107-02-8	Acrolein (2-Propenal)	1	ND	N	10.0	
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND	N	10.0	
107-05-1	Allyl chloride (3-Chloropropene)	1	ND	N	5.00	
71-43-2	Benzene	1	23.8	N	5.00	
75-27-4	Bromodichloromethane	1	ND	N	5.00	
75-25-2	Bromoform	1	ND	N	5.00	
74-83-9	Bromomethane (Methyl bromide)	1	ND	N	10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND	N	10.0	
75-15-0	Carbon disulfide	1	ND	N	5.00	
56-23-5	Carbon tetrachloride	1	ND	N	5.00	
108-90-7	Chlorobenzene	1	ND	N	5.00	
75-00-3	Chloroethane	1	ND	N	10.0	
67-66-3	Chloroform	1	ND	N	5.00	
74-87-3	Chloromethane (Methyl chloride)	1	ND	N	10.0	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND	N	50.0	
124-48-1	Dibromochloromethane	1	ND	N	5.00	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND	N	5.00	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND	N	5.00	
74-95-3	Dibromomethane (Methylene bromide)	1	ND	N	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND	N	5.00	
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND	N	50.0	
75-34-3	1,1-Dichloroethane	1	53.2	N	5.00	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND	N	5.00	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	93.3	N	5.00	
156-60-5	trans-1,2-Dichloroethene	1	34.4	N	5.00	
78-87-5	1,2-Dichloropropane	1	ND	N	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND	N	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND	N	5.00	
123-91-1	1,4-Dioxane	1	ND	N	500	
100-41-4	Ethylbenzene	1	ND	N	5.00	
591-78-6	2-Hexanone	1	ND	N	10.0	
74-88-4	Iodomethane (Methyl iodide)	1	ND	N	5.00	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005P
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT

Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 30-Jul-99 17:32 DE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND	N	500	
126-98-7	Methacrylonitrile	1	ND	N	5.00	
75-09-2	Methylene chloride (Dichloromethane)	1	ND	N	5.00	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND	N	10.0	
107-12-0	Propionitrile (Ethyl cyanide)	1	ND	N	10.0	
100-42-4	Styrene	1	ND	N	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND	N	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND	N	5.00	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	71.1	N	5.00	
108-88-3	Toluene	1	25.3	N	5.00	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	36.5	N	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND	N	5.00	
79-01-6	Trichloroethene (Trichloroethylene)	1	6400	E N	5.00	
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND	N	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND	N	5.00	
108-05-4	Vinyl acetate	1	ND	N	10.0	
75-01-4	Vinyl chloride (Chloroethene)	1	3380	E N	10.0	
1330-20-7	Xylene (total)	1	36.9	N	5.00	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MS-04
Project: TEXTRON Q399
Lab ID: SYZ-006MS
Description: MATRIX SPIKE
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** D6
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31194
Units: ug/l **Target List:** 8260AP9WAT

Prep Factor: 1.00 **Leached:** n/a
Prepared: **Analyzed:** 03-Aug-99 20:52 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	200	6440		2000	
75-05-8	Acetonitrile (Methyl cyanide)	200	ND		10000	
107-02-8	Acrolein (2-Propenal)	200	ND		2000	
107-13-1	Acrylonitrile (2-Propenenitrile)	200	ND		2000	
107-05-1	Allyl chloride (3-Chloropropene)	200	ND		1000	
71-43-2	Benzene	200	10300		1000	
75-27-4	Bromodichloromethane	200	10000		1000	
75-25-2	Bromoform	200	8560		1000	
74-83-9	Bromomethane (Methyl bromide)	200	11000		2000	
78-93-3	2-Butanone (Methyl ethyl ketone)	200	7680		2000	
75-15-0	Carbon disulfide	200	9740		1000	
56-23-5	Carbon tetrachloride	200	10900		1000	
108-90-7	Chlorobenzene	200	8980		1000	
75-00-3	Chloroethane	200	14400		2000	
67-66-3	Chloroform	200	9800		1000	
74-87-3	Chloromethane (Methyl chloride)	200	11000		2000	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	200	ND		10000	
124-48-1	Dibromochloromethane	200	9470		1000	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	200	ND		1000	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	200	ND		1000	
74-95-3	Dibromomethane (Methylene bromide)	200	ND		1000	
110-57-6	trans-1,4-Dichloro-2-butene	200	ND		1000	
75-71-8	Dichlorodifluoromethane (Freon 12)	200	ND		10000	
75-34-3	1,1-Dichloroethane	200	10800		1000	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	200	10000		1000	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	200	12400		1000	
156-60-5	trans-1,2-Dichloroethene	200	11200		1000	
78-87-5	1,2-Dichloropropane	200	9590		1000	
10061-01-5	cis-1,3-Dichloropropene	200	8950		1000	
10061-02-6	trans-1,3-Dichloropropene	200	8650		1000	
123-91-1	1,4-Dioxane	200	ND		100000	
100-41-4	Ethylbenzene	200	8610		1000	
591-78-6	2-Hexanone	200	7610		2000	
74-88-4	Iodomethane (Methyl iodide)	200	ND		1000	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MS-04
Project: TEXTRON Q399
Lab ID: SYZ-006MS
Description: MATRIX SPIKE
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** D6
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31194
Units: ug/l **Target List:** 8260AP9WAT

Prep Factor: 1.00 **Leached:** n/a
Prepared: **Analyzed:** 03-Aug-99 20:52 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	200	ND		100000	
126-98-7	Methacrylonitrile	200	ND		1000	
75-09-2	Methylene chloride (Dichloromethane)	200	8250		1000	
108-10-1	4-Methyl-2-pentanone (MIBK)	200	ND		2000	
107-12-0	Propionitrile (Ethyl cyanide)	200	ND		2000	
100-42-4	Styrene	200	9430		1000	
630-20-6	1,1,1,2-Tetrachloroethane	200	ND		1000	
79-34-5	1,1,2,2-Tetrachloroethane	200	9490		1000	
127-18-4	Tetrachloroethene (Perchloroethylene)	200	9310		1000	
108-88-3	Toluene	200	9900		1000	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	200	10200		1000	
79-00-5	1,1,2-Trichloroethane	200	9600		1000	
79-01-6	Trichloroethene (Trichloroethylene)	200	37400		1000	
75-69-4	Trichlorofluoromethane (Freon 11)	200	11900		1000	
96-18-4	1,2,3-Trichloropropane	200	ND		1000	
108-05-4	Vinyl acetate	200	ND		2000	
75-01-4	Vinyl chloride (Chloroethene)	200	14600		2000	
1330-20-7	Xylene (total)	200	28600		1000	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MS-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-006MS
Episode: SYZ
Sample Qu: P1
Description: MATRIX SPIKE
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 2.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 12:08 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	67.3		20.0	
208-96-8	Acenaphthylene	1	68.6		20.0	
98-86-2	Acetophenone	1	ND		20.0	
53-96-3	2-Acetylaminofluorene	1	ND		20.0	
92-67-1	4-Aminobiphenyl	1	ND		20.0	
62-53-3	Aniline (Benzeneamine)	1	44.1		20.0	
120-12-7	Anthracene	1	75.3		20.0	
140-57-8	Aramite	1	ND		20.0	
56-55-3	Benzo(a)anthracene	1	75.0		20.0	
205-99-2	Benzo(b)fluoranthene	1	90.1		20.0	
207-08-09	Benzo(k)fluoranthene	1	82.9		20.0	
191-24-2	Benzo(g,h,i)perylene	1	88.7		20.0	
50-32-8	Benzo(a)pyrene	1	87.8		20.0	
100-51-6	Benzyl alcohol	1	66.4		20.0	
101-55-3	4-Bromophenyl phenyl ether	1	63.6		20.0	
85-68-7	Butylbenzylphthalate	1	92.6		20.0	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		20.0	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	64.7		20.0	
111-91-1	bis(2-Chloroethoxy)methane	1	64.5		20.0	
111-44-4	bis(2-Chloroethyl) ether	1	56.7		20.0	
108-60-1	bis(2-Chloroisopropyl) ether	1	53.8		20.0	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	78.3		20.0	
91-58-7	2-Chloronaphthalene	1	62.1		20.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	59.6		20.0	
7005-72-3	4-Chlorophenyl phenyl ether	1	63.8		20.0	
218-01-9	Chrysene	1	73.2		20.0	
53-70-3	Dibenz(a,h)anthracene	1	90.5		20.0	
132-64-9	Dibenzofuran	1	66.9		20.0	
84-74-2	Di-n-butylphthalate	1	90.6		20.0	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	43.0		20.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	40.9		20.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	41.5		20.0	
91-94-1	3,3'-Dichlorobenzidine	1	42.0		40.0	
120-83-2	2,4-Dichlorophenol	1	66.4		20.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:37:50

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MS-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-006MS
Episode: SYZ
Sample Qu: P1
Description: MATRIX SPIKE
Matrix: Water
% Moisture: n/a
Method: SW 8270 Appendix IX Semivolatile Organics
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT
Prep Factor: 2.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 12:08 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		20.0	
84-66-2	Diethylphthalate	1	83.4		20.0	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		20.0	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		20.0	
119-93-7	3,3'-Dimethylbenzidine	1	ND		20.0	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		20.0	
105-67-9	2,4-Dimethylphenol	1	55.2		20.0	
131-11-3	Dimethylphthalate	1	77.5		20.0	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		20.0	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	93.0		50.0	
51-28-5	2,4-Dinitrophenol	1	103		50.0	
121-14-2	2,4-Dinitrotoluene	1	83.3		20.0	
606-20-2	2,6-Dinitrotoluene	1	83.0		20.0	
117-84-0	Di-n-octylphthalate	1	105		20.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	98.2		20.0	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		20.0	
62-50-0	Ethyl methanesulfonate	1	ND		20.0	
206-44-0	Fluoranthene	1	76.8		20.0	
86-73-7	Fluorene	1	70.7		20.0	
118-74-1	Hexachlorobenzene	1	64.9		20.0	
87-68-3	Hexachlorobutadiene	1	39.2		20.0	
77-47-4	Hexachlorocyclopentadiene	1	ND		20.0	
67-72-1	Hexachloroethane	1	41.9		20.0	
70-30-4	Hexachlorophene	1	ND		20.0	
1888-71-7	Hexachloropropene	1	ND		20.0	
193-39-5	Indeno(1,2,3-cd)pyrene	1	87.1		20.0	
78-59-1	Isophorone	1	72.1		20.0	
120-58-1	Isosafrole	1	ND		20.0	
91-80-5	Methapyrilene	1	ND		20.0	
56-49-5	3-Methylcholanthrene	1	ND		20.0	
80-62-6	Methyl methacrylate	1	ND		20.0	
66-27-3	Methyl methanesulfonate	1	ND		20.0	
91-57-6	2-Methylnaphthalene	1	79.4		20.0	
95-48-7	2-Methylphenol (o-Cresol)	1	63.5		20.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MS-04
Project: TEXTRON Q399
Lab ID: SYZ-006MS
Description: MATRIX SPIKE
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** P1
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31141
Units: ug/l **Target List:** 8270AP9WAT

Prep Factor: 2.00 **Leached:** n/a
Prepared: 27-Jul-99 **Analyzed:** 30-Jul-99 12:08 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	66.1	A7	20.0	
106-44-5	4-Methylphenol (p-Cresol)	1	66.1		20.0	
91-20-3	Naphthalene	1	68.8		20.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		20.0	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		20.0	
130-15-4	1,4-Naphthoquinone	1	ND		100	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	86.5		50.0	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	86.1		50.0	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	72.2		50.0	
98-95-3	Nitrobenzene	1	59.8		20.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	66.0		20.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	98.0		50.0	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		20.0	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		20.0	
55-18-5	N-Nitrosodiethylamine	1	ND		20.0	
62-75-9	N-Nitrosodimethylamine	1	46.4		20.0	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	62.3	A10	20.0	
621-64-7	N-Nitroso-di-n-propylamine	1	61.5		20.0	
10595-95-6	N-Nitrosomethylethylamine	1	ND		20.0	
59-89-2	N-Nitrosomorpholine	1	ND		20.0	
100-75-4	N-Nitrosopiperidine	1	ND		20.0	
930-55-2	N-Nitrosopyrrolidine	1	ND		20.0	
99-55-8	5-Nitro-o-toluidine	1	ND		20.0	
608-93-5	Pentachlorobenzene	1	ND		20.0	
76-01-7	Pentachloroethane	1	ND		20.0	
82-68-8	Pentachloronitrobenzene	1	ND		20.0	
87-86-5	Pentachlorophenol	1	87.1		50.0	
62-44-2	Phenacetin	1	ND		20.0	
85-01-8	Phenanthrene	1	74.8		20.0	
108-95-2	Phenol	1	64.0		20.0	
106-50-3	p-Phenylenediamine	1	ND		20.0	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		20.0	
23950-58-5	Pronamide	1	ND		20.0	
129-00-0	Pyrene	1	76.2		20.0	

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-MS-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-006MS	**Episode:**	SYZ
Sample Qu:	P1		
Description:	MATRIX SPIKE	**Matrix:**	Water
% Moisture:	n/a		
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
Batch:	31141		
Units:	ug/l	**Target List:**	8270AP9WAT
Prep Factor:	2.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 12:08 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	36.4		20.0	
94-59-7	Safrole	1	ND		20.0	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		20.0	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		20.0	
95-53-4	o-Toluidine	1	ND		20.0	
120-82-1	1,2,4-Trichlorobenzene	1	55.9		20.0	
95-95-4	2,4,5-Trichlorophenol	1	68.0		50.0	
88-06-2	2,4,6-Trichlorophenol	1	67.3		20.0	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		20.0	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MSD-04
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-007MSD
Episode: SYZ
Sample Qu: D6
Description: MATRIX SPIKE DUP
Matrix: Water
% Moisture: n/a
Method: SW 8260 Appendix IX Volatile Organics
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT
Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 03-Aug-99 21:21 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	200	7080		2000	
75-05-8	Acetonitrile (Methyl cyanide)	200	ND		10000	
107-02-8	Acrolein (2-Propenal)	200	ND		2000	
107-13-1	Acrylonitrile (2-Propenenitrile)	200	ND		2000	
107-05-1	Allyl chloride (3-Chloropropene)	200	ND		1000	
71-43-2	Benzene	200	10000		1000	
75-27-4	Bromodichloromethane	200	9710		1000	
75-25-2	Bromoform	200	8430		1000	
74-83-9	Bromomethane (Methyl bromide)	200	10700		2000	
78-93-3	2-Butanone (Methyl ethyl ketone)	200	7940		2000	
75-15-0	Carbon disulfide	200	9450		1000	
56-23-5	Carbon tetrachloride	200	10500		1000	
108-90-7	Chlorobenzene	200	8650		1000	
75-00-3	Chloroethane	200	13300		2000	
67-66-3	Chloroform	200	9540		1000	
74-87-3	Chloromethane (Methyl chloride)	200	10800		2000	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	200	ND		10000	
124-48-1	Dibromochloromethane	200	9180		1000	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	200	ND		1000	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	200	ND		1000	
74-95-3	Dibromomethane (Methylene bromide)	200	ND		1000	
110-57-6	trans-1,4-Dichloro-2-butene	200	ND		1000	
75-71-8	Dichlorodifluoromethane (Freon 12)	200	ND		10000	
75-34-3	1,1-Dichloroethane	200	10600		1000	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	200	9760		1000	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	200	11900		1000	
156-60-5	trans-1,2-Dichloroethene	200	11000		1000	
78-87-5	1,2-Dichloropropane	200	9370		1000	
10061-01-5	cis-1,3-Dichloropropene	200	8720		1000	
10061-02-6	trans-1,3-Dichloropropene	200	8550		1000	
123-91-1	1,4-Dioxane	200	ND		100000	
100-41-4	Ethylbenzene	200	8400		1000	
591-78-6	2-Hexanone	200	7810		2000	
74-88-4	Iodomethane (Methyl iodide)	200	ND		1000	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:37:51

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MSD-04
Project: TEXTRON Q399
Lab ID: SYZ-007MSD
Description: MATRIX SPIKE DUP
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ **Sample Qu:** D6
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 31194
Units: ug/l **Target List:** 8260AP9WAT

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 03-Aug-99 21:21 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	200	ND		100000	
126-98-7	Methacrylonitrile	200	ND		1000	
75-09-2	Methylene chloride (Dichloromethane)	200	8050		1000	
108-10-1	4-Methyl-2-pentanone (MIBK)	200	ND		2000	
107-12-0	Propionitrile (Ethyl cyanide)	200	ND		2000	
100-42-4	Styrene	200	9080		1000	
630-20-6	1,1,1,2-Tetrachloroethane	200	ND		1000	
79-34-5	1,1,2,2-Tetrachloroethane	200	9410		1000	
127-18-4	Tetrachloroethene (Perchloroethylene)	200	8970		1000	
108-88-3	Toluene	200	9630		1000	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	200	9770		1000	
79-00-5	1,1,2-Trichloroethane	200	9490		1000	
79-01-6	Trichloroethene (Trichloroethylene)	200	37000		1000	
75-69-4	Trichlorofluoromethane (Freon 11)	200	11500		1000	
96-18-4	1,2,3-Trichloropropane	200	ND		1000	
108-05-4	Vinyl acetate	200	ND		2000	
75-01-4	Vinyl chloride (Chloroethene)	200	14600		2000	
1330-20-7	Xylene (total)	200	27600		1000	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MSD-04
Project: TEXTRON Q399
Lab ID: SYZ-007MSD
Description: MATRIX SPIKE DUP
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT

Prep Factor: 2.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 12:49 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	68.0		20.0	
208-96-8	Acenaphthylene	1	68.3		20.0	
98-86-2	Acetophenone	1	ND		20.0	
53-96-3	2-Acetylaminofluorene	1	ND		20.0	
92-67-1	4-Aminobiphenyl	1	ND		20.0	
62-53-3	Aniline (Benzeneamine)	1	56.9		20.0	
120-12-7	Anthracene	1	76.1		20.0	
140-57-8	Aramite	1	ND		20.0	
56-55-3	Benzo(a)anthracene	1	75.4		20.0	
205-99-2	Benzo(b)fluoranthene	1	82.6		20.0	
207-08-09	Benzo(k)fluoranthene	1	88.2		20.0	
191-24-2	Benzo(g,h,i)perylene	1	88.9		20.0	
50-32-8	Benzo(a)pyrene	1	87.2		20.0	
100-51-6	Benzyl alcohol	1	66.0		20.0	
101-55-3	4-Bromophenyl phenyl ether	1	64.0		20.0	
85-68-7	Butylbenzylphthalate	1	93.4		20.0	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		20.0	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	65.4		20.0	
111-91-1	bis(2-Chloroethoxy)methane	1	64.8		20.0	
111-44-4	bis(2-Chloroethyl) ether	1	55.7		20.0	
108-60-1	bis(2-Chloroisopropyl) ether	1	53.5		20.0	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	79.0		20.0	
91-58-7	2-Chloronaphthalene	1	62.7		20.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	58.6		20.0	
7005-72-3	4-Chlorophenyl phenyl ether	1	64.4		20.0	
218-01-9	Chrysene	1	74.2		20.0	
53-70-3	Dibenz(a,h)anthracene	1	91.0		20.0	
132-64-9	Dibenzofuran	1	66.7		20.0	
84-74-2	Di-n-butylphthalate	1	91.9		20.0	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	41.7		20.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	40.0		20.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	40.5		20.0	
91-94-1	3,3'-Dichlorobenzidine	1	41.6		40.0	
120-83-2	2,4-Dichlorophenol	1	66.1		20.0	

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8/6/99 09:37:52

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-GW-MSD-04
Project: TEXTRON Q399
Lab ID: SYZ-007MSD
Description: MATRIX SPIKE DUP
Method: SW 8270 Appendix IX Semivolatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31141
Units: ug/l
Target List: 8270AP9WAT

Prep Factor: 2.00
Leached: n/a
Prepared: 27-Jul-99
Analyzed: 30-Jul-99 12:49 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
87-65-0	2,6-Dichlorophenol	1	ND		20.0	
84-66-2	Diethylphthalate	1	84.1		20.0	
60-11-7	p-(Dimethylamino)azobenzene	1	ND		20.0	
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		20.0	
119-93-7	3,3'-Dimethylbenzidine	1	ND		20.0	
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		20.0	
105-67-9	2,4-Dimethylphenol	1	56.0		20.0	
131-11-3	Dimethylphthalate	1	78.2		20.0	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		20.0	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	93.8		50.0	
51-28-5	2,4-Dinitrophenol	1	105		50.0	
121-14-2	2,4-Dinitrotoluene	1	83.0		20.0	
606-20-2	2,6-Dinitrotoluene	1	83.5		20.0	
117-84-0	Di-n-octylphthalate	1	106		20.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	98.2		20.0	
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		20.0	
62-50-0	Ethyl methanesulfonate	1	ND		20.0	
206-44-0	Fluoranthene	1	77.1		20.0	
86-73-7	Fluorene	1	71.9		20.0	
118-74-1	Hexachlorobenzene	1	64.4		20.0	
87-68-3	Hexachlorobutadiene	1	38.9		20.0	
77-47-4	Hexachlorocyclopentadiene	1	ND		20.0	
67-72-1	Hexachloroethane	1	41.1		20.0	
70-30-4	Hexachlorophene	1	ND		20.0	
1888-71-7	Hexachloropropene	1	ND		20.0	
193-39-5	Indeno(1,2,3-cd)pyrene	1	87.6		20.0	
78-59-1	Isophorone	1	73.1		20.0	
120-58-1	Isosafrole	1	ND		20.0	
91-80-5	Methapyrilene	1	ND		20.0	
56-49-5	3-Methylcholanthrene	1	ND		20.0	
80-62-6	Methyl methacrylate	1	ND		20.0	
66-27-3	Methyl methanesulfonate	1	ND		20.0	
91-57-6	2-Methylnaphthalene	1	81.5		20.0	
95-48-7	2-Methylphenol (o-Cresol)	1	64.4		20.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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8/6/99 09:37:52

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-MSD-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-007MSD	**Episode:**	SYZ
Description:	MATRIX SPIKE DUP	**Matrix:**	Water
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
		Units:	ug/l
Prep Factor:	2.00	**Leached:**	n/a
		Prepared:	27-Jul-99

Sample Qu:
% Moisture: n/a
Batch: 31141
Target List: 8270AP9WAT
Analyzed: 30-Jul-99 12:49 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-39-4	3-Methylphenol (m-Cresol)	1	65.7	A7	20.0	
106-44-5	4-Methylphenol (p-Cresol)	1	65.7		20.0	
91-20-3	Naphthalene	1	68.9		20.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		20.0	
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		20.0	
130-15-4	1,4-Naphthoquinone	1	ND		100	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	88.4		50.0	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	88.0		50.0	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	73.5		50.0	
98-95-3	Nitrobenzene	1	61.9		20.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	65.6		20.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	98.7		50.0	
56-57-2	4-Nitroquinoline-1-oxide	1	ND		20.0	
924-16-3	N-Nitrosodi-n-butylamine	1	ND		20.0	
55-18-5	N-Nitrosodiethylamine	1	ND		20.0	
62-75-9	N-Nitrosodimethylamine	1	45.6		20.0	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	59.9	A10	20.0	
621-64-7	N-Nitroso-di-n-propylamine	1	65.0		20.0	
10595-95-6	N-Nitrosomethylethylamine	1	ND		20.0	
59-89-2	N-Nitrosomorpholine	1	ND		20.0	
100-75-4	N-Nitrosopiperidine	1	ND		20.0	
930-55-2	N-Nitrosopyrrolidine	1	ND		20.0	
99-55-8	5-Nitro-o-toluidine	1	ND		20.0	
608-93-5	Pentachlorobenzene	1	ND		20.0	
76-01-7	Pentachloroethane	1	ND		20.0	
82-68-8	Pentachloronitrobenzene	1	ND		20.0	
87-86-5	Pentachlorophenol	1	85.1		50.0	
62-44-2	Phenacetin	1	ND		20.0	
85-01-8	Phenanthrene	1	73.9		20.0	
108-95-2	Phenol	1	64.4		20.0	
106-50-3	p-Phenylenediamine	1	ND		20.0	
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		20.0	
23950-58-5	Pronamide	1	ND		20.0	
129-00-0	Pyrene	1	76.1		20.0	

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	SWMU2-GW-MSD-04	**Client:**	ECO-SYSTEMS, INCORPORATED/MS
Project:	TEXTRON Q399	**Site:**	None
Lab ID:	SYZ-007MSD	**Episode:**	SYZ
Description:	MATRIX SPIKE DUP	**Matrix:**	Water
Method:	SW 8270 Appendix IX Semivolatile Organics	**Prep Level:**	Water
		Units:	ug/l
Prep Factor:	2.00	**Leached:**	n/a
Prepared:	27-Jul-99	**Analyzed:**	30-Jul-99 12:49 JA
Sample Qu:			
% Moisture:	n/a		
Batch:	31141		
Target List:	8270AP9WAT		

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
110-86-1	Pyridine	1	46.7		20.0	
94-59-7	Safrole	1	ND		20.0	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		20.0	
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		20.0	
95-53-4	o-Toluidine	1	ND		20.0	
120-82-1	1,2,4-Trichlorobenzene	1	55.6		20.0	
95-95-4	2,4,5-Trichlorophenol	1	67.4		50.0	
88-06-2	2,4,6-Trichlorophenol	1	68.8		20.0	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		20.0	

111 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-TB-04
Project: TEXTRON Q399
Lab ID: SYZ-009
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT

Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 02-Aug-99 15:08 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.0	
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		50.0	
107-02-8	Acrolein (2-Propenal)	1	ND		10.0	
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		10.0	
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		5.00	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		10.0	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND		50.0	
124-48-1	Dibromochloromethane	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00	
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		50.0	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane	1	ND		500	
100-41-4	Ethylbenzene	1	ND		5.00	
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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8/6/99 09:37:53

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: SWMU2-TB-04
Project: TEXTRON Q399
Lab ID: SYZ-009
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 31194
Units: ug/l
Target List: 8260AP9WAT

Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 02-Aug-99 15:08 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND		500	
126-98-7	Methacrylonitrile	1	ND		5.00	
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		10.0	
100-42-4	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00	
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		5.00	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.0	
1330-20-7	Xylene (total)	1	ND		10.0	
		1	ND		5.00	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-05-04
Project: TEXTRON Q399
Lab ID: SYZ-001
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Matrix: Water **%Moisture:** n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:08 KJR	
Barium	SW 6010	31110	1	1	ND		ug/l	200	26-Jul-99	26-Jul-99	15:08 KJR	
Cadmium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:08 KJR	
Chromium	SW 6010	31110	1	1	1160		ug/l	10.0	26-Jul-99	26-Jul-99	15:08 KJR	
Lead	SW 6010	31110	1	1	ND		ug/l	3.00	26-Jul-99	26-Jul-99	15:08 KJR	
Mercury	SW 7470	31143	1	1	ND		ug/l	0.200	30-Jul-99	30-Jul-99	13:15 DNT	
Selenium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:08 KJR	
Silver	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:08 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:55:32

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-01-04
Project: TEXTRON Q399
Lab ID: SYZ-002
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Matrix: Water **%Moisture:** n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:30 KJR	
Barium	SW 6010	31110	1	1	ND		ug/l	200	26-Jul-99	26-Jul-99	15:30 KJR	
Cadmium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:30 KJR	
Chromium	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:30 KJR	
Lead	SW 6010	31110	1	1	ND		ug/l	3.00	26-Jul-99	26-Jul-99	15:30 KJR	
Mercury	SW 7470	31143	1	1	ND		ug/l	0.200	30-Jul-99	30-Jul-99	13:17 DNT	
Selenium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:30 KJR	
Silver	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:30 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:55:32

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-01-04D
Client: ECO-SYSTEMS, INCORPORATED/MS
Project: TEXTRON Q399
Site: None
Lab ID: SYZ-003
Episode: SYZ
Description: DUPLICATE
Matrix: Water
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:35 KJR	
Barium	SW 6010	31110	1	1	ND		ug/l	200	26-Jul-99	26-Jul-99	15:35 KJR	
Cadmium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:35 KJR	
Chromium	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:35 KJR	
Lead	SW 6010	31110	1	1	ND		ug/l	3.00	26-Jul-99	26-Jul-99	15:35 KJR	
Mercury	SW 7470	31143	1	1	ND		ug/l	0.200	30-Jul-99	30-Jul-99	13:19 DNT	
Selenium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:35 KJR	
Silver	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:35 KJR	

8 parameter(s) reported

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DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-04-04
Project: TEXTRON Q399
Lab ID: SYZ-004
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Matrix: Water **%Moisture:** n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:40 KJR	
Barium	SW 6010	31110	1	1	ND		ug/l	200	26-Jul-99	26-Jul-99	15:40 KJR	
Cadmium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:40 KJR	
Chromium	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:40 KJR	
Lead	SW 6010	31110	1	1	ND		ug/l	3.00	26-Jul-99	26-Jul-99	15:40 KJR	
Mercury	SW 7470	31143	1	1	ND		ug/l	0.200	30-Jul-99	30-Jul-99	13:21 DNT	
Selenium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:40 KJR	
Silver	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:40 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-02-04
Project: TEXTRON Q399
Lab ID: SYZ-005
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Matrix: Water **%Moisture:** n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:45 KJR	
Barium	SW 6010	31110	1	1	ND		ug/l	200	26-Jul-99	26-Jul-99	15:45 KJR	
Cadmium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:45 KJR	
Chromium	SW 6010	31110	1	1	18600		ug/l	10.0	26-Jul-99	26-Jul-99	15:45 KJR	
Lead	SW 6010	31110	1	1	ND		ug/l	3.00	26-Jul-99	26-Jul-99	15:45 KJR	
Mercury	SW 7470	31143	1	1	ND		ug/l	0.200	30-Jul-99	30-Jul-99	13:09 DNT	
Selenium	SW 6010	31110	1	1	ND		ug/l	5.00	26-Jul-99	26-Jul-99	15:45 KJR	
Silver	SW 6010	31110	1	1	ND		ug/l	10.0	26-Jul-99	26-Jul-99	15:45 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-MS-04
Project: TEXTRON Q399
Lab ID: SYZ-006S
Description: MATRIX SPIKE

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Matrix: Water **%Moisture:** n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	1930		ug/l	10.0	26-Jul-99	26-Jul-99	16:06 KJR	
Barium	SW 6010	31110	1	1	1900		ug/l	200	26-Jul-99	26-Jul-99	16:06 KJR	
Cadmium	SW 6010	31110	1	1	43.2		ug/l	5.00	26-Jul-99	26-Jul-99	16:06 KJR	
Chromium	SW 6010	31110	1	1	18700		ug/l	10.0	26-Jul-99	26-Jul-99	16:06 KJR	
Lead	SW 6010	31110	1	1	511		ug/l	3.00	26-Jul-99	26-Jul-99	16:06 KJR	
Mercury	SW 7470	31143	1	1	1.20		ug/l	0.200	30-Jul-99	30-Jul-99	13:11 DNT	
Selenium	SW 6010	31110	1	1	1690		ug/l	5.00	26-Jul-99	26-Jul-99	16:06 KJR	
Silver	SW 6010	31110	1	1	15.6		ug/l	10.0	26-Jul-99	26-Jul-99	16:06 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:55:33

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: SWMU2-GW-MSD-04
Project: TEXTRON Q399
Lab ID: SYZ-007SD
Description: MATRIX SPIKE DUP

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Episode: SYZ
Matrix: Water **%Moisture:** n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	31110	1	1	1900		ug/l	10.0	26-Jul-99	26-Jul-99	16:11 KJR	
Barium	SW 6010	31110	1	1	1900		ug/l	200	26-Jul-99	26-Jul-99	16:11 KJR	
Cadmium	SW 6010	31110	1	1	42.4		ug/l	5.00	26-Jul-99	26-Jul-99	16:11 KJR	
Chromium	SW 6010	31110	1	1	18700		ug/l	10.0	26-Jul-99	26-Jul-99	16:11 KJR	
Lead	SW 6010	31110	1	1	494		ug/l	3.00	26-Jul-99	26-Jul-99	16:11 KJR	
Mercury	SW 7470	31143	1	1	1.07		ug/l	0.200	30-Jul-99	30-Jul-99	13:13 DNT	
Selenium	SW 6010	31110	1	1	1660		ug/l	5.00	26-Jul-99	26-Jul-99	16:11 KJR	
Silver	SW 6010	31110	1	1	27.7		ug/l	10.0	26-Jul-99	26-Jul-99	16:11 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

8/6/99 09:55:33

Pace Analytical Services, Inc. - New Orleans
Laboratory Quality Control Definitions

Our laboratory employs quality control (QC) measures to ensure the quality of our analytical data by defining its accuracy and precision. Presentation of the QC data with the report allows the data user the opportunity to evaluate these results and to gauge the method performance. In order to assist the understanding of these data, routine components of our QC program are defined below.

BATCH - A batch is a group of 20 samples or less of a given matrix and analysis by a specific protocol or analytical method.

BLANK - A method blank is a "clean" laboratory sample carried through the entire analytical process. One or more method blanks are prepared with each batch of samples. The analysis of method blanks demonstrates that method interferences caused by contaminants, reagents and glassware are known and minimized. A method blank should not contain any analytes of interest above the reporting limit. There are method allowances for common laboratory artifacts such as methylene chloride, acetone and bis-2-ethylhexyl phthalate.

LABORATORY CONTROL SPIKE - A laboratory control spike (LCS or blank spike) is a blank which has been spiked with known concentrations of target analytes. The LCS is carried through the entire analytical process. One or more LCS are prepared with each batch of samples. The percent recovery of the spiked analytes provides a measure of the accuracy of the analytical process in the absence of matrix effects.

MATRIX SPIKE - A matrix spike (MS) is a client sample which is spiked with known concentrations of target analytes. The MS is carried through the entire analytical process. One or more matrix spikes are prepared with every batch of samples. For organic methods, a matrix spike duplicate (MSD) is also prepared. The percent recovery of the spiked analytes provides a measure of the method accuracy in the selected sample and matrix.

DUPLICATE - A duplicate is a sample for which replicate aliquouts are carried through the entire analytical process. Comparison of the original results to those of the duplicate results provides a measure of the method precision in the sample and matrix. By convention, precision is measured for inorganic analyses using a sample and a sample duplicate, whereas for organics analyses, an MS/MSD are used.

SURROGATE - A surrogate is a non-target analyte which is added to all samples and QC samples prior to extraction or analysis. The percent recovery of the surrogate provides a measure of the method accuracy in each sample tested. Surrogates are used for organics methods only.

QC LIMITS - QC limits specify the expected percent recovery range for a spiked compound. QC limits may be set by method criteria or calculated from laboratory generated data. For many methods, these limits are advisory and do not require corrective action if exceeded.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: SYZ

Method: Water GC/MS Volatile Organics **Batch:** 31194 **Units:** ug/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Acetone (2-Propanone, Dimethyl ketone)	50.0	67		10000	64	71	9	1-200	1-200	50	
Benzene	50.0	95		10000	103	100	3	76-127	76-127	11	
Bromodichloromethane	50.0	91		10000	100	97	3	1-200	1-200	50	
Bromoform	50.0	81		10000	86	84	2	1-200	1-200	50	
Bromomethane (Methyl bromide)	50.0	112		10000	110	107	3	1-200	1-200	50	
2-Butanone (Methyl ethyl ketone)	50.0	77		10000	77	79	3	1-200	1-200	50	
Carbon disulfide	50.0	93		10000	97	95	3	1-200	1-200	50	
Carbon tetrachloride	50.0	100		10000	109	105	4	1-200	1-200	50	
Chlorobenzene	50.0	88		10000	90	87	4	75-130	75-130	13	
Chloroethane	50.0	113		10000	144	133	8	1-200	1-200	50	
Chloroform	50.0	96		10000	98	95	3	1-200	1-200	50	
Chloromethane (Methyl chloride)	50.0	106		10000	110	108	2	1-200	1-200	50	
Dibromochloromethane	50.0	92		10000	95	92	3	1-200	1-200	50	
1,1-Dichloroethane	50.0	103		10000	108	106	2	1-200	1-200	50	
1,2-Dichloroethane (Ethylene dichloride)	50.0	94		10000	100	98	2	1-200	1-200	50	
1,1-Dichloroethene (Dichloroethylene)	50.0	122		10000	124	119	4	61-145	61-145	14	
trans-1,2-Dichloroethene	50.0	112		10000	112	110	2	1-200	1-200	50	
1,2-Dichloropropane	50.0	87		10000	96	94	2	1-200	1-200	50	
cis-1,3-Dichloropropene	50.0	84		10000	90	87	3	1-200	1-200	50	
trans-1,3-Dichloropropene	50.0	80		10000	87	86	1	1-200	1-200	50	
Ethylbenzene	50.0	87		10000	86	84	2	1-200	1-200	50	
2-Hexanone	50.0	75		10000	76	78	3	1-200	1-200	50	
Methylene chloride (Dichloromethane)	50.0	82		10000	80	78	2	1-200	1-200	50	
4-Methyl-2-pentanone (MIBK)	50.0	28		10000	19	18	4	1-200	1-200	50	
Styrene	50.0	91		10000	94	91	4	1-200	1-200	50	
1,1,2,2-Tetrachloroethane	50.0	90		10000	95	94	1	1-200	1-200	50	
Tetrachloroethene (Perchloroethylene)	50.0	89		10000	93	90	4	1-200	1-200	50	
Toluene	50.0	95		10000	99	96	3	76-125	76-125	13	
1,1,1-Trichloroethane (Methyl chloroform)	50.0	101		10000	102	98	4	1-200	1-200	50	
1,1,2-Trichloroethane	50.0	92		10000	96	95	1	1-200	1-200	50	
Trichloroethene (Trichloroethylene)	50.0	100		10000	149 *	145 *	1	71-120	71-120	14	Q1
Trichlorofluoromethane (Freon 11)	50.0	123		10000	119	115	3	1-200	1-200	50	
Vinyl chloride (Chloroethene)	50.0	112		10000	113	113	0	1-200	1-200	50	
Xylene (total)	150	91		30000	95	92	4	1-200	1-200	50	

34 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: SYZ

Method: Water GC/MS Semivolatile Organics **Batch:** 31141 **Units:** ug/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Acenaphthene	50.0	93		100	67	68	1	46-118	46-118	31	
Acenaphthylene	50.0	92		100	69	68	0	1-200	1-200	35	
Aniline (Benzeneamine)	50.0	128		100	44	57	25	1-200	1-200	50	
Anthracene	50.0	104		100	75	76	1	1-200	1-200	35	
Benzoic acid	50.0	113		100	98	100	2	1-200	1-200	35	
Benzo(a)anthracene	50.0	99		100	75	75	1	1-200	1-200	35	
Benzo(b)fluoranthene	50.0	114		100	90	83	9	1-200	1-200	35	
Benzo(k)fluoranthene	50.0	115		100	83	88	6	1-200	1-200	35	
Benzo(g,h,i)perylene	50.0	117		100	89	89	0	1-200	1-200	35	
Benzo(a)pyrene	50.0	117		100	88	87	1	1-200	1-200	35	
Benzyl alcohol	50.0	101		100	66	66	1	1-200	1-200	35	
4-Bromophenyl phenyl ether	50.0	85		100	64	64	1	1-200	1-200	35	
Butylbenzylphthalate	50.0	119		100	93	93	1	1-200	1-200	35	
4-Chloroaniline (p-Chloroaniline)	50.0	92		100	65	65	1	1-200	1-200	35	
bis(2-Chloroethoxy)methane	50.0	92		100	65	65	0	1-200	1-200	35	
bis(2-Chloroethyl) ether	50.0	85		100	57	56	2	1-200	1-200	35	
bis(2-Chloroisopropyl) ether	50.0	80		100	54	54	1	1-200	1-200	35	
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	50.0	103 *		100	78	79	1	23-97	23-97	42	Q4
2-Chloronaphthalene	50.0	87		100	62	63	1	1-200	1-200	35	
2-Chlorophenol (o-Chlorophenol)	50.0	93		100	60	59	2	27-123	27-123	40	
4-Chlorophenyl phenyl ether	50.0	86		100	64	64	1	1-200	1-200	35	
Chrysene	50.0	97		100	73	74	1	1-200	1-200	35	
Dibenz(a,h)anthracene	50.0	120		100	91	91	1	1-200	1-200	35	
Dibenzofuran	50.0	91		100	67	67	0	1-200	1-200	35	
Di-n-butylphthalate	50.0	124		100	91	92	1	1-200	1-200	35	
1,2-Dichlorobenzene (o-Dichlorobenzene)	50.0	60		100	43	42	3	1-200	1-200	35	
1,3-Dichlorobenzene (m-Dichlorobenzene)	50.0	57		100	41	40	2	1-200	1-200	35	
1,4-Dichlorobenzene (p-Dichlorobenzene)	50.0	57		100	42	41	2	36-97	36-97	28	
3,3'-Dichlorobenzidine	50.0	85		100	42	42	1	1-200	1-200	35	
2,4-Dichlorophenol	50.0	95		100	66	66	0	1-200	1-200	35	
Diethylphthalate	50.0	111		100	83	84	1	1-200	1-200	35	
2,4-Dimethylphenol	50.0	73		100	55	56	1	1-200	1-200	35	
Dimethylphthalate	50.0	102		100	78	78	1	1-200	1-200	35	
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cres	50.0	125		100	93	94	1	1-200	1-200	35	
2,4-Dinitrophenol	50.0	129		100	103	105	2	1-200	1-200	35	
2,4-Dinitrotoluene	50.0	110 *		100	83	83	0	24-96	24-96	38	Q4
2,6-Dinitrotoluene	50.0	108		100	83	84	1	1-200	1-200	35	
Di-n-octylphthalate	50.0	136		100	105	106	1	1-200	1-200	35	
bis(2-Ethylhexyl)phthalate	50.0	129		100	98	98	0	1-200	1-200	35	
Fluoranthene	50.0	110		100	77	77	0	1-200	1-200	35	
Fluorene	50.0	99		100	71	72	2	1-200	1-200	35	
Hexachlorobenzene	50.0	86		100	65	64	1	1-200	1-200	35	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: SYZ

Method: Water GC/MS Semivolatile Organics **Batch:** 31141 **Units:** ug/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Hexachlorobutadiene	50.0	52		100	39	39	1	1-200	1-200	35	
Hexachloroethane	50.0	56		100	42	41	2	1-200	1-200	35	
Indeno(1,2,3-cd)pyrene	50.0	115		100	87	88	1	1-200	1-200	35	
Isophorone	50.0	104		100	72	73	1	1-200	1-200	35	
2-Methylnaphthalene	50.0	86		100	63	65	3	1-200	1-200	35	
2-Methylphenol (o-Cresol)	50.0	95		100	64	64	1	1-200	1-200	35	
3-Methylphenol (m-Cresol)	50.0	96		100	66	66	1	1-200	1-200	50	
4-Methylphenol (p-Cresol)	50.0	96		100	66	66	1	1-200	1-200	35	
Naphthalene	50.0	77		100	56	56	0	1-200	1-200	35	
2-Nitroaniline (o-Nitroaniline)	50.0	117		100	87	88	2	1-200	1-200	35	
3-Nitroaniline (m-Nitroaniline)	50.0	114		100	86	88	2	1-200	1-200	35	
4-Nitroaniline (p-Nitroaniline)	50.0	116		100	72	74	2	1-200	1-200	35	
Nitrobenzene	50.0	91		100	60	62	3	1-200	1-200	35	
2-Nitrophenol (o-Nitrophenol)	50.0	99		100	66	66	1	1-200	1-200	35	
4-Nitrophenol (p-Nitrophenol)	50.0	128 *		100	98 *	99 *	1	10-80	10-80	50	
N-Nitrosodimethylamine	50.0	78		100	46	46	2	1-200	1-200	50	
N-Nitrosodiphenylamine (Diphenylamine)	50.0	97		100	62	60	4	1-200	1-200	35	
N-Nitroso-di-n-propylamine	50.0	89		100	62	65	6	41-116	41-116	38	
Pentachlorophenol	50.0	108 *		100	83	81	2	9-103	9-103	50	Q4
Phenanthrene	50.0	104		100	75	74	1	1-200	1-200	35	
Phenol	50.0	101		100	64	64	1	12-110	12-110	42	
Pyrene	50.0	100		100	76	76	0	26-127	26-127	31	
Pyridine	50.0	79		100	36	47	25	1-200	1-200	35	
1,2,4-Trichlorobenzene	50.0	64		100	46	46	1	39-98	39-98	28	
2,4,5-Trichlorophenol	50.0	94		100	68	67	1	1-200	1-200	35	
2,4,6-Trichlorophenol	50.0	96		100	67	69	2	1-200	1-200	35	

68 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Method: Water GC/MS Volatile Organics

Episode: SYZ

Batch: 31194

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
31194BL02	90	94	96					
31194BL02A	90	94	96					
31194BL03	90	93	93					
31194SL02	90	94	97					
SYZ-001	92	95	92					
SYZ-001DL	92	98	93					
SYZ-002	89	94	97					
SYZ-003	88	92	97					
SYZ-004	89	95	91					
SYZ-004DL	88	92	97					
SYZ-005	88	96	97					
SYZ-006MS	92	95	93					
SYZ-007MSD	92	96	93					
SYZ-009	89	94	95					
SZV-001	88	96	97					
SZV-002	88	95	96					
SZW-001	89	95	97					
SZW-002	89	96	96					
SZW-003	89	94	97					
SZW-004	88	96	97					
SZW-005	88	94	96					
SZW-006	88	95	97					
SZW-007	88	96	96					
SZW-008	88	97	96					
SZW-009	90	95	94					
SZW-010	88	96	97					
QC limits:	**88 - 110**	**86 - 115**	**86 - 118**					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Method: Water GC/MS Semivolatile Organics **Episode:** SYZ

Batch: 31141

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
31141B1	86	62	88	81	81	92		
31141B2	88	80	90	81	81	100		
31141S1	100	86	95	94	93	102		
SYZ-001	86	65	88	78	77	95		
SYZ-002	77	56	81	70	68	89		
SYZ-003	76	58	78	72	71	84		
SYZ-004	100	61	98	81	90	103		
SYZ-005	66	47	79	64	60	82		
SYZ-006MS	68	63	73	59	50	76		
SYZ-007MSD	68	58	75	58	50	77		
SZV-001	72	64	74	73	71	82		
QC limits:	**35 - 114**	**43 - 116**	**33 - 141**	**10 - 94**	**21 - 100**	**10 - 123**		

Sur 1: Nitrobenzene-d5 (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: Terphenyl-d14 (S)
Sur 4: Phenol-d5 (S)
Sur 5: 2-Fluorophenol (S)
Sur 6: 2,4,6-Tribromophenol (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 31194BL02

Description: Water Method Blank **Episode:** SYZ **% Moisture:** n/a

Method: Water GC/MS Volatile Organics **Batch:** 31194 **Units:** ug/l

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 02-Aug-99 11:07 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.0
75-05-8	Acetonitrile (Methyl cyanide)	1	ND		50.0
107-02-8	Acrolein (2-Propenal)	1	ND		10.0
107-13-1	Acrylonitrile (2-Propenenitrile)	1	ND		10.0
107-05-1	Allyl chloride (3-Chloropropene)	1	ND		5.00
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		10.0
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0
126-99-8	Chloroprene (2-Chloro-1,3-butadiene)	1	ND		50.0
124-48-1	Dibromochloromethane	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND		5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00
74-95-3	Dibromomethane (Methylene bromide)	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		50.0
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane	1	ND		500
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane (Methyl iodide)	1	ND		5.00
78-83-1	2-Methyl-1-propanol (iso-Butyl alcohol)	1	ND		500
126-98-7	Methacrylonitrile	1	ND		5.00
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile (Ethyl cyanide)	1	ND		10.0

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 31194BL02

Description: Water Method Blank **Episode:** SYZ **% Moisture:** n/a

Method: Water GC/MS Volatile Organics **Batch:** 31194 **Units:** ug/l

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 02-Aug-99 11:07 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
100-42-4	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.0
1330-20-7	Xylene (total)	1	ND		5.00

52 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 31141B1

Description: Water Method Blank **Episode:** SYZ **% Moisture:** n/a

Method: Water GC/MS Semivolatile Organics **Batch:** 31141 **Units:** ug/l

Prep Factor: 1 **Leached:** n/a **Prepared:** 27-Jul-99 **Analyzed:** 30-Jul-99 10:45 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
53-96-3	2-Acetylaminofluorene	1	ND		10.0
92-67-1	4-Aminobiphenyl	1	ND		10.0
62-53-3	Aniline (Benzeneamine)	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
140-57-8	Aramite	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-09	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenyl phenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dinoseb)	1	ND		10.0
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		10.0
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		10.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		10.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
87-65-0	2,6-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
60-11-7	p-(Dimethylamino)azobenzene	1	ND		10.0
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		10.0
119-93-7	3,3'-Dimethylbenzidine	1	ND		10.0

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 31141B1

Description: Water Method Blank **Episode:** SYZ **% Moisture:** n/a

Method: Water GC/MS Semivolatile Organics **Batch:** 31141 **Units:** ug/l

Prep Factor: 1 **Leached:** n/a **Prepared:** 27-Jul-99 **Analyzed:** 30-Jul-99 10:45 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
122-09-8	alpha, alpha- Dimethylphenethylamine	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzene)	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		25.0
51-28-5	2,4-Dinitrophenol	1	ND		25.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
97-63-2	Ethyl methacrylate (2-Propenoic acid)	1	ND		10.0
62-50-0	Ethyl methanesulfonate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
87-68-3	Hexachlorobutadiene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
70-30-4	Hexachlorophene	1	ND		10.0
1888-71-7	Hexachloropropene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
120-58-1	Isosafrole	1	ND		10.0
91-80-5	Methapyrilene	1	ND		10.0
56-49-5	3-Methylcholanthrene	1	ND		10.0
80-62-6	Methyl methacrylate	1	ND		10.0
66-27-3	Methyl methanesulfonate	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND		10.0
91-20-3	Naphthalene	1	ND		10.0
134-32-7	1-Naphthaleneamine (1-Naphthylamine)	1	ND		10.0
91-59-8	2-Naphthaleneamine (2-Naphthylamine)	1	ND		10.0
130-15-4	1,4-Naphthoquinone	1	ND		50.0
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		25.0
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		25.0
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		25.0
98-95-3	Nitrobenzene	1	ND		10.0

ND denotes Not Detected at or above the reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 31141B1

Description: Water Method Blank

Method: Water GC/MS Semivolatile Organics

Prep Factor: 1 **Leached:** n/a

Episode: SYZ **% Moisture:** n/a

Batch: 31141 **Units:** ug/l

Prepared: 27-Jul-99 **Analyzed:** 30-Jul-99 10:45 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		10.0
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		25.0
56-57-2	4-Nitroquinoline-1-oxide	1	ND		10.0
924-16-3	N-Nitrosodi-n-butylamine	1	ND		10.0
55-18-5	N-Nitrosodiethylamine	1	ND		10.0
62-75-9	N-Nitrosodimethylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
10595-95-6	N-Nitrosomethylethylamine	1	ND		10.0
59-89-2	N-Nitrosomorpholine	1	ND		10.0
100-75-4	N-Nitrosopiperidine	1	ND		10.0
930-55-2	N-Nitrosopyrrolidine	1	ND		10.0
99-55-8	5-Nitro-o-toluidine	1	ND		10.0
608-93-5	Pentachlorobenzene	1	ND		10.0
76-01-7	Pentachloroethane	1	ND		10.0
82-68-8	Pentachloronitrobenzene	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		25.0
62-44-2	Phenacetin	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
106-50-3	p-Phenylenediamine	1	ND		10.0
109-06-08	2-Picoline (2-Methylpyridine)	1	ND		10.0
23950-58-5	Pronamide	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
110-86-1	Pyridine	1	ND		10.0
94-59-7	Safrole	1	ND		10.0
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0
95-53-4	o-Toluidine	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitrobenzene)	1	ND		10.0

111 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Multiple Parameters - Multiple Batches

Episode: SYZ

Parameter Name	Batch	Blank	Units	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Antimony	31110	ND	ug/l	1000	104		500	105	103	2	80-120	75-125	20	
Arsenic	31110	ND	ug/l	1000	103		2000	96	95	2	80-120	75-125	20	
Barium	31110	ND	ug/l	1000	102		2000	92	92	0	80-120	75-125	20	
Beryllium	31110	ND	ug/l	1000	99		50.0	94	94	0	80-120	75-125	20	
Cadmium	31110	ND	ug/l	1000	100		50.0	86	85	2	80-120	75-125	20	
Chromium	31110	ND	ug/l	1000	102		200	50 *	50 *	0	80-120	75-125	20	Q3
Cobalt	31110	ND	ug/l	1000	103		500	86	84	2	80-120	75-125	20	
Copper	31110	ND	ug/l	1000	105		250	104	101	3	80-120	75-125	20	
Gold	31110	ND	mg/l	0.100	100		0.100	98			80-120	75-125	20	
Lead	31110	ND	ug/l	1000	102		500	102	99	3	80-120	75-125	20	
Nickel	31110	ND	ug/l	1000	104		500	100	98	2	80-120	75-125	20	
Selenium	31110	ND	ug/l	1000	97		2000	84	83	2	80-120	75-125	20	
Silver	31110	ND	ug/l	500	100		50.0	31 *	55 *	56 *	80-120	75-125	20	Q1
Thallium	31110	ND	ug/l	1000	100		2000	91	89	2	80-120	75-125	20	
Tin	31110	ND	ug/l	1000	109		1000	96	95	1	80-120	75-125	20	
Vanadium	31110	ND	ug/l	1000	100		500	98	98	0	80-120	75-125	20	
Zinc	31110	ND	ug/l	1000	101		500	94	94	0	80-120	75-125	20	
Mercury	31143	ND	ug/l	1.00	121 *		1.00	120	107	11	80-120	75-125	20	Q4

Count([ParaCode]) " parameter(s) reported"
denotes recovery outside of QC limits.
Spike amounts are not corrected for moisture content of the spiked sample.

8/5/99 09:00:53

Report Qualifiers

Pace Analytical Services, Inc. - New Orleans

Single Episode

Episode: SYZ

Qualifier	Qualifier Description
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
D1	The analysis was performed at a dilution due to the high analyte concentration.
D6	The sample was analyzed at a dilution based upon the screening information.
P1	A reduced sample aliquot was extracted. The reporting limit is elevated accordingly.
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.
Q4	The laboratory control sample recovery is poor. Acceptable method performance for this analyte has been demonstrated by the matrix spike recovery.

Pace Analytical

The Right Chemistry, The Right Solution®

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

498881

Page: 1 of 1

Required Client Information: **Section A**

Company: Eco-Systems, Inc.
Address: 4294 Lakeland Dr. Suite 200, Jackson, MS 39208
Phone: 601-936-4440 Fax: 601-936-4463

Required Client Information: **Section B**

Report To: John Ryan
Invoice To: Same
P.O.:
Project Name: Textron Q3 99
Project Number: TAC99

Client Information (Check quote/contract):
Requested Due Date:
*TAT: 14d

* Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calender days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #:
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: App. IX metals 6010; App IX VOC's 8260; App IX SVOC's 8270

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (mm:hh a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	App. IX metals 6010	App IX VOC's 8260	App IX SVOC's 8270	Remarks / Lab ID
1	TAC-SWMU2-GW-05-04	WT	7-23-99	840	6	2		1	3			X	X	X	Slight odor
2	TAC-SWMU2-GW-01-04	WT	7-23-99	1000	6	2		1	3			X	X	X	No odor
3	TAC-SWMU2-GW-01-04D	WT	7-23-99	1000	6	2		1	3			X	X	X	duplicate
4	TAC-SWMU2-GW-04-04	WT	7-23-99	1040	5	1		1	3			X	X	X	← Slight odor; unnatural color
5	TAC-SWMU2-GW-02-04	WT	7-23-99	1130	6	2		1	3			X	X	X	
6	TAC-SWMU2-GW-MS-04	WT	7-23-99	1130	6	2		1	3			X	X	X	
7	TAC-SWMU2-GW-MSD-04	WT	7-23-99	1130	6	2		1	3			X	X	X	
8	TAC-SWMU2-AB-04	WT	7-23-99	1150	5	1		1	3			X	X	X	Hold *
9	TAC-SWMU2-TB-04	WT	7-23-99	1155	2				2				X		
10															
11															
12															

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	3°C			[signature] / ESI	7-23	1800	/ Fed Ex		
Received on ICE:	Y / N			Fed Ex			[signature] / Pace	7/24/99	0900
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments: * Please Hold (AB-04) until further notice.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wade Steinriede

SIGNATURE of SAMPLER: [signature]

DATE Signed: (MM / DD / YY) 7-23-99

SEE REVERSE SIDE FOR INSTRUCTIONS

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TABLES

TABLE 1	QUARTERLY GROUNDWATER SAMPLING
TABLE 2	SUMMARY OF STATISICAL TESTS AND RESULTS

FIGURES

FIGURE 1	SITE LAYOUT

APPENDICES

APPENDIX A	STATISTICAL CALCULATION DATA SHEETS

1.0 INTRODUCTION

Grenada Manufacturing Company (GMC), operates an automotive parts plant in Grenada, Mississippi. GMC purchased the Textron Automotive Company in August of 1999 and transferred the environmental permits to GMC. Several waste streams from these processes fell under the Resource Conservation and Recovery Act (RCRA) definition of a hazardous waste and required management under a RCRA permit. The RCRA permit for this facility includes provisions for a groundwater monitoring program associated with a closed Equalization Lagoon or Solid Waste Management Unit #2 (SWMU #2). This groundwater sampling and analysis program is being implemented on a quarterly basis in accordance with Section IV. E.1 of GMC's Hazardous Waste Management (HWM) permit No. MSD007037278. The purpose of this report is to present an analysis of the results of the previous four (4) groundwater sampling events performed by *Eco·Systems, Inc.* (*Eco·Systems*) at the GMC facility from November, 1998 (Fourth Quarter, 1998) to July, 1999 (Third Quarter, 1999).

This annual report is organized as follows:

- Background information (Section 1.1);
- Field procedures and analytical methods utilized (Section 2.0);
- Results of the sampling events (Section 3.0);
- Groundwater statistical analysis report; and
- A report summary and conclusions (Section 4.0).

1.1 BACKGROUND

Grenada, Mississippi is located the central portion of the State in Grenada County. The GMC plant is located approximately 3/4 mile north of the urban area of the city across the Yalobusha River. The Yalobusha river flows in a southwesterly direction approximately 1/2 mile east of the plant. The plant property is bordered to the north by the Illinois Central Gulf Railroad across from which is a residential area, and to the south by low-lying floodplain areas of the Yalobusha River. To the east the plant is bordered by Riverdale creek, with Highway 322 and mostly uninhabited cleared and wooded land to the west.

The closed Equalization Lagoon is a former process water retention pond which has been solidified and backfilled. Formerly, the Equalization Lagoon received water discharged from the roll, boil-off, chrome electroplating, and boiler operations. These process waters were subsequently routed to the wastewater treatment system directly across Highway 322. The Equalization Lagoon was approximately 475 feet long and 225 feet wide at its widest point. The exact depth of the Lagoon was not known but was suspected of being less than 10 feet deep.

In March, 1991, Textron Automotive Company received an Administrative Order from the State of Mississippi requiring preparation and implementation of a groundwater

monitoring plan at the Equalization Lagoon in compliance with RCRA regulations as cited in Mississippi Hazardous Waste Management Regulations (MHWMR) Parts 264 and 265, Subpart F and guidelines presented in the RCRA Groundwater Monitoring Technical Enforcement Document (September 1986). Geraghty and Miller, Inc. (GMI) prepared the RCRA Groundwater Monitoring Plan (GWMP), approved by the Mississippi Department of Environmental Quality (MDEQ), for the Equalization Pond area. The GWMP was implemented in late 1991 and early 1992 as detailed in the RCRA Detection Monitoring - Results for the Equalization Basin (GMI, September, 1992).

Five (5) monitoring wells (MW-1 through MW-5) were installed in the uppermost water-bearing zone around the Equalization Lagoon and sampled in accordance with the GWMP (Figure 1). The report presented the installation and sampling procedures of these wells as well as analytical results and statistical analysis of the data. MW-1 is located hydraulically-upgradient and east of the Equalization Lagoon. MW-2 and MW-3 are positioned cross-gradient between the manufacturing plant and the south side of the Equalization Lagoon. MW-4 and MW-5 are located downgradient and west/northwest of the Equalization Lagoon. For the purposes of the detection monitoring specified in GMC's RCRA permit, only monitoring wells MW-1, MW-2, MW-4 and MW-5 are currently included in the sampling program.

2.0 METHODS AND PROCEDURES

Methods and procedures followed during groundwater sampling and analysis were completed in accordance with GMC's Groundwater Monitoring Plan (GWMP) which is presented as Attachment C in the Quality Assurance Project Plan (QAPP) contained in the RCRA permit. Additional guidance was also followed, including:

- EPA Region IV Environmental Investigations - Standard Operating Procedures and Quality Assurance Manual (May, 1996), and,
- RCRA Groundwater Monitoring Technical Enforcement Document (EPA; September, 1986).

These guidelines include procedures for sample collection, sample preservation and shipment, analytical procedures, chain of custody procedures, schedules, etc. Procedures for the completion of the field tasks are presented below along with other pertinent field procedures such as quality assurance/quality control (QA/QC), decontamination, and management of investigative derived waste (IDW).

2.1 GROUNDWATER SAMPLING

Prior to purging each well, the depth to static water was measured in each well for determination of groundwater elevations using a water level indicator which measured in 1/100 increments. Monitoring wells were purged using a low-flow/low-stress technique prior to collecting a groundwater sample. This technique consisted of slowly lowering dedicated tubing connected to a peristaltic pump into a region of adequate permeability within the screened portion of the water-bearing zone, based on the well-specific and local hydrogeology. Purging was initiated at a low flow rate and was adjusted such that the static water level remained constant during the purging and sampling process (e.g., discharge equaled recharge). Equilibrium was dependent upon the stabilization of field parameters (pH, temperature, and conductivity). In addition, turbidity was measured to assure that particulates were minimized prior to sampling. Maintaining the stabilized water level, purging was continued until water quality parameters stabilized (pH $\pm$ 0.04, temperature $\pm$ 0.1° Celsius, conductivity $\pm$ 5%, and turbidity less than 10 Nephelometric Turbidity Units (NTUs)). Tubing depth, water quality measurements collected during groundwater purging, and other pertinent information were recorded on Groundwater Sample Collection Forms which may be referenced in the quarterly reports.

Once field parameters stabilized, a groundwater sample was collected directly from the discharge stream into a laboratory-supplied sample container. Groundwater samples that were to be analyzed for volatile analysis were collected from water in the influent tubing (e.g., prior to entering the pump rotor head assembly) in order to avoid concerns for volatilization inherent to the pumping mechanism (suction lift technique). New tubing was used for each well, thereby eliminating decontamination requirements concerning the pump.

Each sample container was labeled and placed on ice in an ice chest. The samples were shipped along with the completed chain of custody form to the selected laboratory for analysis of the parameters indicated in Section 2.2. Sample analytical results from the quarterly events are summarized in Section 3.0 and may be reviewed on Table 1. Personnel involved in sample collection wore fresh latex gloves while handling sampling equipment and bottles. Investigative-derived waste (IDW, purge water, etc.) was managed as described in Section 2.5.

2.2 ANALYTICAL AND QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROCEDURES

Groundwater samples were analyzed by Pace Analytical Services of St. Rose, Louisiana using EPA-approved SW-846 methods. As required in GMC's permit, all samples were analyzed for selected Appendix IX Metals (RCRA Metals; Method 6010), Volatile Organics (Method 8260), and Semivolatile Organics (Method 8270). Results of groundwater analysis may be found in Section 3.0.

To attain QA/QC objectives in terms of accuracy, precision, completeness, comparability, and representativeness, QA/QC samples were collected and shipped with the normal samples to the laboratory for analysis. QA/QC samples collected in the field during each quarterly event included one (1) field duplicate, one (1) trip blank, and one matrix spike/matrix spike duplicate (MS/MSD). Each duplicate was designated as "blind" so that the well which was the source of the sample was blind or unknown to the laboratory. The duplicate sample was collected by filling additional sample containers with alternating aliquots from the discharge tubing. Trip blanks were prepared by the laboratory and were labeled and included in the sample shipping containers by the sampling personnel. The MS/MSD samples were taken by collecting additional aliquots of water from the selected well. Complete data packages containing the QA/QC samples may be found in Appendix A

2.3 SAMPLE NOMENCLATURE

Groundwater sample identification was accomplished via a five-part alpha-numeric labeling system. The first and second parts of the identification, TAC and SWMU #2, indicates the sample is from GMC's (TAC) Solid Waste Management Unit #2 (SWMU #2). The next part of the identification indicates that the sample is groundwater (GW). Next, the well from which the sample was taken is identified ("01" for MW-1) and finally the sequential order of samples collected by *Eco·Systems* to date (01). Instead of the well number in the MS/MSD, blind duplicate, and trip blank samples, "MS" and "MSD", "BD", and "TB" were used, respectively.

2.4 DECONTAMINATION PROCEDURES

In order to minimize possible cross contamination of wells and samples, strict decontamination procedures were followed during this event. Water level indicator

probes were decontaminated with isopropanol prior to being triple-rinsed with laboratory-supplied deionized water. Fresh tubing for the peristaltic pump and fresh latex gloves were used for each well sampled.

2.5 MANAGEMENT OF INVESTIGATIVE-DERIVED WASTE (IDW)

All IDW (e.g., well purge water, used tubing, personal protective equipment, etc.) was managed immediately following generation. All purge and decontamination water was containerized and staged next to each well in 55-gallon drums for subsequent off-site disposal in accordance with regulatory requirements following review of the analytical data. All other IDW was stored onsite in plastic bags for subsequent management by GMC.

2.6 OTHER PROCEDURES

Procedures for sample containerization and packing, sample shipment, cross-contamination control, Best Management Practices, field documentation, chain-of-custody, and data review was conducted in accordance with applicable EPA operating procedures.

3.0 GROUNDWATER SAMPLING RESULTS

The following summarizes general trends observed during the previous four (4) groundwater monitoring events at the GMC Facility. All groundwater results for the past four (4) events have been summarized in Table 1. Groundwater analytical data sheets for all events discussed may be found in the quarterly reports.

3.1 APPENDIX IX VOLATILES

Groundwater results received from the laboratory indicated that all four (4) of the wells sampled during the period from November 1998 to July 1999 revealed detectable concentrations (greater than the laboratory-derived practical quantitation limit (PQL) of 0.005 milligrams per liter (mg/L), equivalent to parts per million (ppm)), concentrations of at least one (1) of the Appendix IX Volatile Organic Compounds (VOCs; Table 1). Several chlorinated VOCs, including Tetrachloroethene (PCE), Trichloroethene (TCE), and several potentially associated degradation products, were the most commonly encountered VOCs and were identified in wells MW-2, MW-4, and MW-5; with TCE being detected during each event in the background well, MW-1. TCE was detected in each well at levels ranging from 0.075 mg/L in MW-1 (February, 1999) to 22.5 mg/L in MW-2 (July, 1999). Several other "degradation products" including 1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), trans - 1,2-Dichloroethene (t,1,2-DCE), 1,1,1-Trichloroethane (1,1,1-TCA), and 1,1,2-Trichloroethane (1,1,2-TCA) were identified in a majority of the downgradient wells at levels up to 0.090 mg/L (t,122-DCE in MW-4, July, 1999). Vinyl Chloride (VC), one of the final chlorinated degradation products of TCE, was detected in each of the wells at levels ranging from 0.070 mg/L (MW-4, February, 1999) to 3.28 mg/L (MW-2, July, 1999).

3.2 APPENDIX IX SEMIVOLATILES

Each of the four (4) wells sampled during this period revealed detectable levels (greater than the PQL, Table 1) of at least one of the of Appendix IX Semivolatiles (SVOC), although detections over the four (4) events were very inconsistent. During the November, 1998 event, no SVOA compounds were detected in groundwater samples. 2-Methylnapthalene was detected in MW-1 during the February, 1999 event only, and a similar trend was observed with 1,2,4-Trichlorobenzene in MW-5. Low levels of the two compounds mentioned above were detected during each event (other than November, 1998) in MW-2, with the exception of 2-Methylnapthalene during April, 1999.

3.3 SELECT APPENDIX IX METALS

Each of the four (4) wells sampled during this period revealed detectable levels (greater than the PQL, Table 1) of at least one of the selected list of Appendix IX Metals. Wells MW-1 and MW-4, revealed non-detect (less than the PQL) levels of all listed metals during each event, with the exception of Selenium which was detected at a concentration of 0.00576 mg/L in MW-1 during the November, 1998 event. Total

Chromium was detected in groundwater samples collected from downgradient wells MW-2 and MW-5 during all four (4) events at concentrations ranging from 0.128 mg/L (MW-5 in February, 1999) to 26.5 mg/L (MW-2 in February, 1999). All other listed metals were non-detect (less than the PQL) in groundwater collected from all wells sampled during the period with the exception of Arsenic in MW-2 during February, 1999 at a concentration of 0.011 mg/L (Table 1).

3.4 GROUNDWATER FLOW PATTERNS

Water level elevation data obtained during these four (4) events indicate that the flow in the vicinity of the closed Equalization Lagoon is generally to the west/northwest. This flow pattern appears to be consistent with historical patterns. Potentiometric surface maps for each quarterly sampling event may be referenced in the quarterly reports.

3.5 QA/QC RESULTS

QA/QC procedures were performed in accordance with GMC's QAPP to assure validity of sampling results. A total of one (1) duplicate sample (blind duplicate sample), one (1) trip blank sample, and one matrix spike/matrix spike duplicate (MS/MSD) sample was collected during each event.

An independent QA/QC review was performed on all analytical data collected during selected events. Some samples (flagged with "*" in Table 1) contained high concentrations of target analytes which required the laboratory to dilute the sample in order to bring the analyte in question into the working quantitation range of the instrument used. As a result of this dilution, exact concentrations of the other target analytes in the sample cannot be accurately determined. Results flagged with an "*" were qualified as diluted.

4.0 STATISTICAL ANALYSIS OF GROUNDWATER DATA

4.1 BACKGROUND

Five (5) monitoring wells were installed at the Equalization Lagoon to determine if the wastewater and pond sediments have adversely impacted groundwater. Location of the wells at the Equalization Lagoon are shown on Figure 1. Based on groundwater potentiometric surface maps constructed for each of the last four (4) rounds of monitoring, groundwater flow in the vicinity of the Equalization Lagoon is generally to the northwest (potentiometric surface maps for each event may be referenced in the Quarterly Reports). Well MW-1 is located hydraulically upgradient (east) of the Lagoon and has been designated in the permit as the "background" well. Wells MW-4 and MW-5 are located on the eastern edge of the closed Lagoon and area hydraulically downgradient. Wells MW-2 and MW-3 are located cross-gradient to the Lagoon and are located on the northern boundary of the unit (Figure 1). For purposes of the RCRA permit and statistical analysis of the groundwater data, wells MW-2, MW-4, and MW-5 have been designated as "compliance" wells. Statistical comparisons of groundwater results were made using the four (4) wells mentioned above. Well MW-3 was not included in the permit as a compliance well and in accordance with the RCRA permit, groundwater from well MW-3 was not collected and therefore no data is available for analysis.

4.2 METHODOLOGY

The purpose of this analysis was to determine if a statistically significant difference exists at the facility between background and compliance wells for the parameters of interest. A significant increase in a parameter of interest from background to compliance wells would potentially indicate that groundwater is being adversely affected by the closed unit. Data used for comparison in this report represents the first four (4) quarterly rounds of groundwater monitoring (Q4, 1998 through Q3, 1999) since the issuance of the RCRA permit. Data collected during these initial four (4) events will be used in conjunction with future events to determine weather or not the closed unit is adversely affecting groundwater in the area. Since these four (4) sampling events occurred in less than one (1) year, the effects of seasonality on groundwater quality will not be studied. Parameters of interest are discussed in Section 4.0 and the constituents detected are listed in Table 1.

As suggested in Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Addendum to Interim Final Guidance (July, 1992), a non-parametric Analysis of Variance (ANOVA) based on ranks of the data was used due to large percentages of non-detects (quantities less than the laboratory-derived practical quantitation limit (PQL)) in the groundwater results (i.e. greater than 15%). The two parameters which did not reveal any non-detects, TCE and Vinyl Chloride, did not demonstrate normal or lognormal distributions and as a result were also analyzed using the non-parametric test. Because a comparison of background data to compliance well data was desired, the Wilcoxon Rank-Sum test was selected and implemented.

The Wilcoxon Rank-Sum test requires at least four (4) observations or events be used for each well, background and compliance. In this procedure groundwater observations are converted to ranks based on their relative value. The ranks from the two groups of interest are then added and compared to determine weather or not a difference exists. Each comparison of a compliance well to a background well or grouped observations from multiple background wells results in a calculated Z-score which is compared to a standardized critical Z at a chosen significance level to determine if statistically significant differences exist. The Wilcoxon Rank-Sum test also treats non-detects with elevated detection limits differently than non-detects with normal detection limits, thereby viewing them as separate concentrations. Only non-detects with the same PQL are treated as tied observations. All analytical results which were reported as less than the PQL were replaced by one half of that particular PQL. Non-detects with elevated PQL's were also replaced by one half of the PQL as recommended in the Interim Final Guidance (EPA, 1992). Non-detect results with elevated detection limits are marked in Table 1 with asterisks ("*"). Laboratory analytical data sheets for all quarters used in this report may be referenced in the applicable quarterly reports.

4.3 RESULTS OF STATISTICAL ANALYSES

Statistically significant tests are summarized on Table 2 and calculation printouts for all tests performed are included in Appendix A. Twenty four (24) tests produced statistically significant results for 11 different groundwater constituents upon comparison of background to compliance wells. These included one Appendix IX Metal, Chromium; and 10 Appendix IX VOC's including TCE, 1,1,2-TCA, 1,1,1-TCA, Vinyl Chloride, Toluene, PCE, Benzene, t,1,2 DCE, 1,1-DCE, and 1,1-DCA. The table below illustrates the mean concentration of the significant constituents over the past four (4) quarterly events:

TABLE 4.3.1: MEAN VALUES IN BACKGROUND AND COMPLIANCE WELLS FOR SIGNIFICANT CONSTITUENTS (mg/L)

Constituent	MW-1 (Background)	MW-2 (Compliance)	MW-4 (Compliance)	MW-5 (Compliance)
TCE	0.11	16.83*	0.32*	7.68*
1,1,2-TCA	0.00	0.01	0.00	0.02*
1,1,1-TCA	0.00	0.03*	0.00	0.02*
1,2-DCE	0.00	0.03*	0.06*	0.03*
1,1-DCE	0.00	0.07*	0.01*	0.04*
1,1-DCA	0.00	0.04*	0.01*	0.03*
PCE	0.00	0.05*	0.00	0.03*
Vinyl Chloride	0.00	2.22*	0.42*	0.25*
Chromium	0.00	16.13*	0.00	0.52*
Benzene	0.00	0.02*	0.00	0.01
Toluene	0.00	0.03*	0.00	0.02

* Denotes significant increase from background to compliance well.

All constituents mentioned above demonstrated significant increases in concentration in well MW-2 compared to background levels (MW-1) with the exception of 1,1,2-TCA. Concentrations of TCE and its potential degradation products 1,1-DCA, 1,1,-DCE, t,1,2-DCE, and Vinyl Chloride, were determined to be significantly increased in all three (3) compliance wells when compared to the background well. 1,1,1-TCA demonstrated significant concentration increases in wells MW-2 and MW-5, while 1,1,2-TCA was significant in well MW-5 only.

4.4 OTHER CONSIDERATIONS

The generalized flow pattern of the groundwater across the Site is to the northwest (see quarterly reports). The northwesterly flow of the groundwater at the Site would indicate that the compliance well MW-2 is in fact cross-gradient to the Equalization Lagoon. Although a number of constituents are significantly increased in well MW-2 when compared to the background well MW-1, the source of contamination of the groundwater from MW-2 appears to be from a source other than the Lagoon. High levels of Chromium in MW-2 may be due to historical releases from the lagoon prior to closure (Figure 1). The lagoon may have been a source of release along its southwestern side where the influent and effluent piping may have provided a conduit or the liner may have been breached. Possible historical releases from the lagoon could also be impacting well MW-5 because of its proximity and the fact that is downgradient from this potential source. Comparison of the Chromium data with data reported by Geraghty & Miller, Inc. in 1992 indicates that, in general, Chromium levels have decreased since that time. The data does not indicate that a release has occurred from the closed lagoon, but rather from source(s) that preceded closure.

Historical release of the industrial solvents TCE and Toluene at other locations around the site may be impacting groundwater in the vicinity of the closed Equalization Lagoon. The Draft Remedial Investigation Report for Randall Textron Plant Site, Grenada, Mississippi, prepared by Eckenfelder (Doc. # 6649.07; January, 1994) indicates that the TCE source was ruptured supply lines located on the eastern side of the plant, and the Toluene source was a ruptured storage tank also located on the eastern side of the Plant. The Lagoon was not the source of the chlorinated solvents at the Site which were detected in the wells located around the Lagoon. The background well MW-1, which is located upgradient to the Lagoon, has demonstrated consistent detectable levels of TCE which also suggests a source other than the Equalization Lagoon. The cross-gradient location of well MW-2 makes it unlikely that the Equalization Lagoon is the source of the solvents detected in the well.

5.0 SUMMARY AND CONCLUSIONS

Eco·Systems was commissioned by GMC to conduct quarterly groundwater sampling and analysis along with an annual statistical evaluation on groundwater results in accordance with the facility's RCRA operating permit for the closed Equalization Lagoon (Figure 1). The following summarizes activities and conclusions drawn from the monitoring and evaluation:

- Water levels and groundwater samples were collected quarterly for four (4) events beginning in November of 1998 and ending in July of 1999.

- Groundwater samples were analyzed for Appendix IX Metals, Volatiles, and Semivolatiles.

- Due to the high percentage of non-detect data, the Wilcoxon Rank-Sum test was used for data statistical analysis. Statistical analysis indicated significant increases of the following groundwater constituents in at lease one (1) well: TCE, 1,1,2-TCA, 1,1,1-TCA, 1,2-DCE, 1,1-DCE, 1,1-DCA, PCE, Vinyl Chloride, Chromium, Benzene, and Toluene.

- Evaluation of the groundwater flow patterns, the facility layout and features, the monitoring well locations and constructions, and constituent breakdown products and ratios indicates that a cross-gradient source may be the basis of the groundwater analytical results. In addition, corrective action to close the Equalization Lagoon has already been performed.

TABLES

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TABLE 1
QUARTERLY RCRA GROUNDWATER SAMPLING
GRENADA MANUFACTURING COMPANY - GRENADA, MISSISSIPPI

PARAMETER[1]	PQL (mg/L)[2]	NOVEMBER, 1998 RESULT (mg/L)				FEBRUARY, 1999 RESULT (mg/L)				APRIL, 1999 RESULT (mg/L)				JULY, 1999 RESULT (mg/L)			
		MW-1	MW-2	MW-4	MW-5	MW-1	MW-2	MW-4	MW-5	MW-1	MW-2	MW-4	MW-5	MW-1	MW-2	MW-4	MW-5
APPENDIX IX VOLATILES (METHOD 8260)																	
Benzene	0.005	ND[3]	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.024[5]	ND	ND
Carbon Disulfide	0.005	ND	ND	ND	ND	0.002	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.010	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethane	0.005	ND	0.038	0.006	0.025	ND	ND	ND	0.022	ND	ND	0.006	ND	ND	0.053[5]	0.005	ND
1,1 - Dichloroethene	0.005	ND	0.081	0.013	0.037	ND	0.0157*	ND	0.036	ND	0.073	0.011	ND	ND	0.093[5]	0.008	0.012
t - 1,2-Dichloroethene	0.005	ND	0.026	0.053	0.018	ND	ND	0.0123*	0.018	ND	ND	0.069	ND	ND	0.034[5]	0.090	0.010
Tetrachloroethene	0.005	ND	0.040	ND	0.014	ND	0.0335*	ND	0.013	ND	0.063	ND	ND	ND	0.071[5]	ND	ND
Toluene	0.005	ND	0.010	ND	ND	ND	0.0653*	ND	ND	ND	ND	ND	ND	ND	0.025[5]	ND	ND
1,1,1 - Trichloroethane	0.005	ND	0.016	ND	0.013	ND	ND	ND	0.012	ND	ND	ND	ND	ND	0.037[5]	ND	ND
1,1,2 - Trichloroethane	0.005	ND	ND	ND	0.006	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	0.124	13.8	0.575	11.6	0.0754*	11.0*	0.163*	9.68	0.119	18.2	0.251	5.72	0.128	22.5[6]	0.286	3.56
Vinyl Chloride	0.010	ND	3.0	0.612	0.242	ND	0.928*	0.0703*	0.506	ND	1.670	0.490	ND	ND	3.28[6]	0.521	0.133
Xylene (total)	0.005	ND	0.032	ND	ND	ND	0.0405*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
All Others Not Listed	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APPENDIX IX SEMI-VOLATILES (METHOD 8270)																	
2-Methylnapthalene	0.010	ND	ND	ND	ND	21.0	0.003*	ND	ND	ND	ND	ND	ND	ND	0.016	ND	ND
1,2,4-Trichlorobenzene	0.010	ND	ND	ND	ND	ND	0.013*	ND	0.005	ND	0.013	ND	ND	ND	0.010	ND	ND
Others	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APPENDIX IX METALS (METHOD 6000/7000 SERIES)																	
Arsenic	0.010	ND	ND	ND	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (total)	0.010	ND	15.7	ND	0.793	ND	26.5	ND	0.128	ND	22.3	ND	1.38	ND	18.6	ND	1.16
Selenium	0.005	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[1] Groundwater samples were analyzed for select Appendix IX parameters as per the project scope.

[2] Result was below the compound and sample-specific practical quantitation limit (PQL).

[3] Result concentrations are reported in parts per million (ppm) equivalent to milligrams per liter (mg/L).

[4] Analyses could not be completed due to holding time considerations.

[5] Undiluted sample analysis as provided on laboratory data sheet (lab ID) SYZ-005P.

[6] Diluted sample analysis as provided lab ID SYZ-005.

* Sample was diluted to bring the analyte to within working range of the instrument and has an elevated PQL (see quarterly reports)

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TABLE 2
SUMMARY OF STATISITCAL TESTS AND RESULTS
GRENADA MANUFACTURING COMPANY
GRENADA, MISSISSIPPI

PARAMETER[1]	TEST PERFORMED	RESULT		
		MW-2	MW-4	MW-5
Benzene	Wilcoxon Rank-Sum	**Significant[2]**	Not Significant[3]	Not Significnat
1,1 - Dichloroethane	Wilcoxon Rank-Sum	**Significant**	**Significant**	**Significant**
1,1 - Dichloroethene	Wilcoxon Rank-Sum	**Significant**	**Significant**	**Significant**
trans - 1,2-Dichloroethene	Wilcoxon Rank-Sum	**Significant**	**Significant**	**Significant**
Tetrachloroethene	Wilcoxon Rank-Sum	**Significant**	Not Significant	**Significant**
Toluene	Wilcoxon Rank-Sum	**Significant**	Not Significant	Not Significant
1,1,1 - Trichloroethane	Wilcoxon Rank-Sum	**Significant**	Not Significant	**Significant**
1,1,2 - Trichloroethane	Wilcoxon Rank-Sum	Not Significant	Not Significant	**Significant**
Trichloroethene	Wilcoxon Rank-Sum	**Significant**	**Significant**	**Significant**
Vinyl Chloride	Wilcoxon Rank-Sum	**Significant**	**Significant**	**Significant**
Chromium	Wilcoxon Rank-Sum	**Significant**	Not Significant	**Significant**

[1] A complete list of parameters may be found on Table 1.

[2] Groundwater value was significantly higher when compared to the background well, MW-1.

[3] Groundwater value was not significantly higher when compared to the background well, MW-1.

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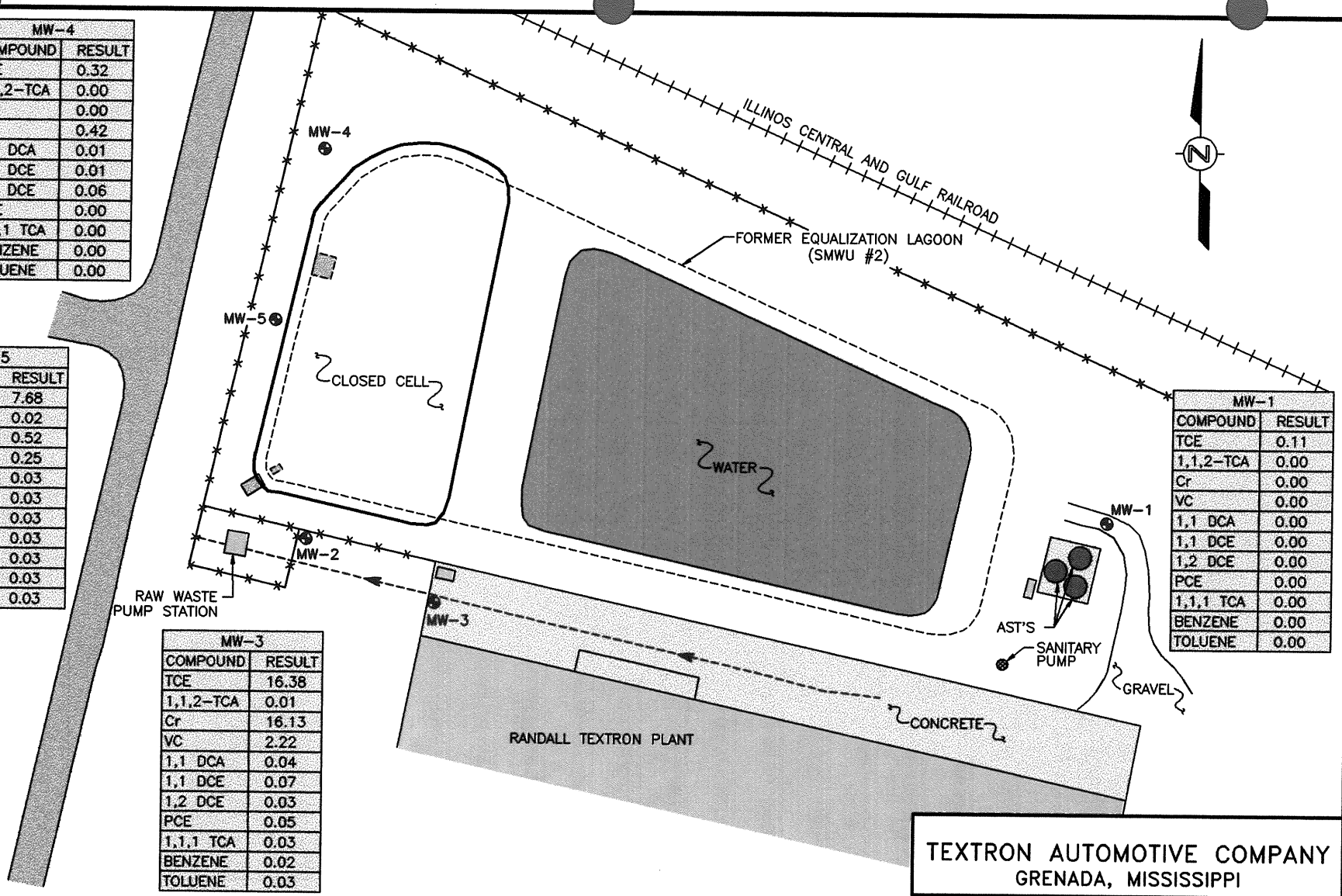
FIGURES

MW-4	
COMPOUND	RESULT
TCE	0.32
1,1,2-TCA	0.00
Cr	0.00
VC	0.42
1,1 DCA	0.01
1,1 DCE	0.01
1,2 DCE	0.06
PCE	0.00
1,1,1 TCA	0.00
BENZENE	0.00
TOLUENE	0.00

MW-5	
COMPOUND	RESULT
TCE	7.68
1,1,2-TCA	0.02
Cr	0.52
VC	0.25
1,1 DCA	0.03
1,1 DCE	0.03
1,2 DCE	0.03
PCE	0.03
1,1,1 TCA	0.03
BENZENE	0.03
TOLUENE	0.03

MW-3	
COMPOUND	RESULT
TCE	16.38
1,1,2-TCA	0.01
Cr	16.13
VC	2.22
1,1 DCA	0.04
1,1 DCE	0.07
1,2 DCE	0.03
PCE	0.05
1,1,1 TCA	0.03
BENZENE	0.02
TOLUENE	0.03

MW-1	
COMPOUND	RESULT
TCE	0.11
1,1,2-TCA	0.00
Cr	0.00
VC	0.00
1,1 DCA	0.00
1,1 DCE	0.00
1,2 DCE	0.00
PCE	0.00
1,1,1 TCA	0.00
BENZENE	0.00
TOLUENE	0.00



LEGEND

- RAILROAD TRACKS
- PROCESS WASTEWATER WITH FLOW DIRECTION
- MW-2 GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- FENCE LINE

NOTES

TCE = TETRACHLORETHENE
1,1,2 TCA = 1,1,2 TRICHLOROETHANE
Cr = CHROMIUM
VC = VINYL CHLOIDE
1,1 DCA = 1,1-DICHLOROETHANE
1,1 DCE = 1,1-DICHLOROETHENE
1,2 DCE = 1,2-DICHLOROETHENE
PCE = TETRACHLOROETHENE
1,1,1 TCA = 1,1-TRICHLOROETHANE

ANALYTICAL DATA (PARTS PER MILLION) PRESENTED AS MEAN VALUES ACROSS THE FOUR QUARTERLY EVENTS.

SOURCE: MODIFIED AFTER GERAGHTY & MILLER, INC. – 9-2-92

TEXTRON AUTOMOTIVE COMPANY
GRENADA, MISSISSIPPI

Eco•Systems, Inc.
Consultants, Engineers and Scientists

SCALE: 1"=100'	DRAWN BY: A. LUQUET	DATE: 9-20-99
	CHKD. BY:	DATE:
PROJECT NO. TAC98166	CAD FILE RTFIG06.DWG	

SITE LAYOUT

FIGURE 1

A.L. 10/25/1999 11:44 E:\DRWG\RNDLTEX\RTFIG06

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APPENDIX A

STATISTICAL CALCULATION DATA SHEETS

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 09:31

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:TCE Trichloroethene (-ethylene)

CAS Number:‼\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	0	0.13	0.08	0.11	0.02

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	22.50	11.00	16.38	5.05
MW-4	4	0	0.57	0.16	0.32	0.18
MW-5	4	0	11.60	3.56	7.68	3.69

Well	Date	Observation	Rank
MW-1	11/23/98	0.1240	3.0
MW-1	02/04/99	0.0750	1.0
MW-1	04/29/99	0.1190	2.0
MW-1	07/23/99	0.1280	4.0
Background Data Rank-Sum:			10.0
MW-2	11/23/98	13.8000	6.0

MW-2	02/04/99	11.0000	5.0
MW-2	04/29/99	18.2000	7.0
MW-2	07/23/99	22.5000	8.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4641
Approx Z-Score Z:	2.1651
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 09:32

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:TCE Trichloroethene (-ethylene)

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	0	0.13	0.08	0.11	0.02

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	22.50	11.00	16.38	5.05
MW-4	4	0	0.57	0.16	0.32	0.18
MW-5	4	0	11.60	3.56	7.68	3.69

Well	Date	Observation	Rank
MW-1	11/23/98	0.1240	3.0
MW-1	02/04/99	0.0750	1.0
MW-1	04/29/99	0.1190	2.0
MW-1	07/23/99	0.1280	4.0
Background Data Rank-Sum:			10.0
MW-4	11/23/98	0.5750	8.0

MW-4	02/04/99	0.1630	5.0
MW-4	04/29/99	0.2510	6.0
MW-4	07/23/99	0.2860	7.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4641
Approx Z-Score Z:	2.1651
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:18

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:TCE Trichloroethene (-ethylene)

CAS Number:‼\ÿ↕∫♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	0	0.13	0.08	0.11	0.02

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	22.50	11.00	16.38	5.05
MW-4	4	0	0.57	0.16	0.32	0.18
MW-5	4	0	11.60	3.56	7.68	3.69

Well	Date	Observation	Rank
MW-1	11/23/98	0.1240	3.0
MW-1	02/04/99	0.0750	1.0
MW-1	04/29/99	0.1190	2.0
MW-1	07/23/99	0.1280	4.0
Background Data Rank-Sum:			10.0
MW-5	11/23/98	11.6000	8.0

MW-5	02/04/99	9.8600	7.0
MW-5	04/29/99	5.7200	6.0
MW-5	07/23/99	3.5600	5.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4641
Approx Z-Score Z:	2.1651
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-15-1999 16:13

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,2-DCEy 1,2-Dichloroethene (-ethylene)

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.03	0.03	0.03	0.00
MW-4	4	0	0.09	0.01	0.06	0.03
MW-5	4	25	0.06	0.01	0.03	0.02

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0260	7.0

MW-2	02/04/99	0.0250	5.5
MW-2	04/29/99	0.0250	5.5
MW-2	07/23/99	0.0340	8.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:17

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,2-DCEy 1,2-Dichloroethene (-ethylene)

CAS Number.
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	75	0.03	0.00	0.02	0.01
MW-4	4	0	0.09	0.01	0.06	0.03
MW-5	4	25	0.06	0.01	0.03	0.02

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-4	11/23/98	0.0530	6.0

MW-4	02/04/99	0.0120	5.0
MW-4	04/29/99	0.0690	7.0
MW-4	07/23/99	0.0900	8.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2514
Approx Z-Score Z:	2.3067
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:35

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,2-DCEy 1,2-Dichloroethene (-ethylene)

CAS Number:‼\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.03	0.03	0.03	0.00
MW-4	4	0	0.09	0.01	0.06	0.03
MW-5	4	25	0.06	0.01	0.03	0.02

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-5	11/23/98	0.0180	6.5

MW-5	02/04/99	0.0180	6.5
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0100	5.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-15-1999 16:09

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1DCE 1,1-Dichloroethane

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.05	0.03	0.04	0.01
MW-4	4	25	0.01	0.00	0.01	0.00
MW-5	4	50	0.06	0.00	0.03	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0380	7.0

MW-2	02/04/99	0.0250	5.5
MW-2	04/29/99	0.0250	5.5
MW-2	07/23/99	0.0530	8.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:10

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1DCE 1,1-Dichloroethane

CAS Number
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	75	0.04	0.00	0.02	0.01
MW-4	4	25	0.01	0.00	0.01	0.00
MW-5	4	50	0.06	0.00	0.03	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-4	11/23/98	0.0060	6.5

MW-4	02/04/99	0.0125	8.0
MW-4	04/29/99	0.0060	6.5
MW-4	07/23/99	0.0050	5.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:06

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1DCE 1,1-Dichloroethane

CAS Number:⇓\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.05	0.03	0.04	0.01
MW-4	4	25	0.01	0.00	0.01	0.00
MW-5	4	50	0.06	0.00	0.03	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	3.0
MW-1	02/04/99	0.0025	3.0
MW-1	04/29/99	0.0025	3.0
MW-1	07/23/99	0.0025	3.0
	Background Data Rank-Sum:		12.0
MW-5	11/23/98	0.0250	7.0

MW-5	02/04/99	0.0220	6.0
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0025	3.0
	Compliance Data Rank-Sum:		24.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	14.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.0237
Approx Z-Score Z:	1.8190
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-15-1999 16:11

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1-DCEE 1,1-Dichloroethene (-ethylene)

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	0.09	0.02	0.07	0.03
MW-4	4	25	0.01	0.01	0.01	0.00
MW-5	4	25	0.06	0.01	0.04	0.02

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0810	7.0

MW-2	02/04/99	0.0160	5.0
MW-2	04/29/99	0.0730	6.0
MW-2	07/23/99	0.0930	8.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2514
Approx Z-Score Z:	2.3067
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:14

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1-DCEE 1,1-Dichloroethene (-ethylene)

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	0.08	0.00	0.04	0.04
MW-4	4	25	0.01	0.01	0.01	0.00
MW-5	4	25	0.06	0.01	0.04	0.02

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-4	11/23/98	0.0130	8.0

MW-4	02/04/99	0.0125	7.0
MW-4	04/29/99	0.0110	6.0
MW-4	07/23/99	0.0080	5.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2514
Approx Z-Score Z:	2.3067
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:08

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1-DCEE 1,1-Dichloroethene (-ethylene)

CAS Number:‼\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	0.09	0.02	0.07	0.03
MW-4	4	25	0.01	0.01	0.01	0.00
MW-5	4	25	0.06	0.01	0.04	0.02

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
	Background Data Rank-Sum:		10.0
MW-5	11/23/98	0.0370	7.0

MW-5	02/04/99	0.0360	6.0
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0120	5.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2514
Approx Z-Score Z:	2.3067
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-15-1999 16:24

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1,1Tri 1,1,1-Trichloroethane

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.04	0.02	0.03	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0160	5.0

MW-2	02/04/99	0.0250	6.5
MW-2	04/29/99	0.0250	6.5
MW-2	07/23/99	0.0370	8.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:00

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1,1Tri 1,1,1-Trichloroethane

CAS Number
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	75	0.03	0.00	0.02	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-4	11/23/98	0.0025	4.0

MW-4	02/04/99	0.0125	8.0
MW-4	04/29/99	0.0025	4.0
MW-4	07/23/99	0.0025	4.0
	Compliance Data Rank-Sum:		20.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	10.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.0000
Approx Z-Score Z:	0.7500
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:01

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1,1Tri 1,1,1-Trichloroethane

CAS Number:♫\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.04	0.02	0.03	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	3.0
MW-1	02/04/99	0.0025	3.0
MW-1	04/29/99	0.0025	3.0
MW-1	07/23/99	0.0025	3.0
Background Data Rank-Sum:			12.0
MW-5	11/23/98	0.0130	7.0

MW-5	02/04/99	0.0120	6.0
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0025	3.0

Compliance Data Rank-Sum: 24.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	14.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.0237
Approx Z-Score Z:	1.8190
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:04

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1,2Tri 1,1,2-Trichloroethane

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	100	0.03	0.00	0.01	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	3.5
MW-1	02/04/99	0.0025	3.5
MW-1	04/29/99	0.0025	3.5
MW-1	07/23/99	0.0025	3.5
	Background Data Rank-Sum:		14.0
MW-2	11/23/98	0.0025	3.5

MW-2	02/04/99	0.0250	7.5
MW-2	04/29/99	0.0250	7.5
MW-2	07/23/99	0.0025	3.5
	Compliance Data Rank-Sum:		22.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.6458
Approx Z-Score Z:	1.3229
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:05

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1,2Tri 1,1,2-Trichloroethane

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	100	0.03	0.00	0.01	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-4	11/23/98	0.0025	4.0

MW-4	02/04/99	0.0125	8.0
MW-4	04/29/99	0.0025	4.0
MW-4	07/23/99	0.0025	4.0

Compliance Data Rank-Sum: 20.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	10.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.0000
Approx Z-Score Z:	0.7500
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:02

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:1,1,2Tri 1,1,2-Trichloroethane

CAS Number:‼\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	100	0.03	0.00	0.01	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	3.0
MW-1	02/04/99	0.0025	3.0
MW-1	04/29/99	0.0025	3.0
MW-1	07/23/99	0.0025	3.0
Background Data Rank-Sum:			12.0
MW-5	11/23/98	0.0060	6.5

MW-5	02/04/99	0.0060	6.5
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0025	3.0

Compliance Data Rank-Sum: 24.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	14.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.0000
Approx Z-Score Z:	1.8333
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:37

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:TetCEthy Tetrachloroethene (-ethylene)

CAS Number:♫\ÿ↕∫♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	0.07	0.03	0.05	0.02
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0400	6.0

MW-2	02/04/99	0.0340	5.0
MW-2	04/29/99	0.0630	7.0
MW-2	07/23/99	0.0710	8.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2514
Approx Z-Score Z:	2.3067
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:29

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:TetCEthy Tetrachloroethene (-ethylene)

CAS Number.
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	0.06	0.00	0.03	0.02
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-4	11/23/98	0.0025	4.0

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:30

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:TetCEthy Tetrachloroethene (-ethylene)

CAS Number
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	0.06	0.00	0.03	0.02
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	50	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	3.0
MW-1	02/04/99	0.0025	3.0
MW-1	04/29/99	0.0025	3.0
MW-1	07/23/99	0.0025	3.0
Background Data Rank-Sum:			12.0
MW-5	11/23/98	0.0140	7.0

MW-5	02/04/99	0.0130	6.0
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0025	3.0

Compliance Data Rank-Sum: 24.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	14.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.0237
Approx Z-Score Z:	1.8190
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:38

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	3.28	0.93	2.22	1.11
MW-4	4	0	0.61	0.07	0.42	0.24
MW-5	4	25	0.51	0.13	0.25	0.18

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	1.5
MW-1	02/04/99	0.0050	3.5
MW-1	04/29/99	0.0050	3.5
MW-1	07/23/99	0.0025	1.5
	Background Data Rank-Sum:		10.0
MW-2	11/23/98	3.0000	7.0

MW-2	02/04/99	0.9280	5.0
MW-2	04/29/99	1.6700	6.0
MW-2	07/23/99	3.2800	8.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4226
Approx Z-Score Z:	2.1913
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:39

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	3.28	0.93	2.22	1.11
MW-4	4	0	0.61	0.07	0.42	0.24
MW-5	4	25	0.51	0.13	0.25	0.18

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	1.5
MW-1	02/04/99	0.0050	3.5
MW-1	04/29/99	0.0050	3.5
MW-1	07/23/99	0.0025	1.5
Background Data Rank-Sum:			10.0
MW-4	11/23/98	0.6120	8.0

MW-4	02/04/99	0.0700	5.0
MW-4	04/29/99	0.4900	6.0
MW-4	07/23/99	0.5210	7.0
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4226
Approx Z-Score Z:	2.1913
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:33

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number:‼\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	0	3.28	0.93	2.22	1.11
MW-4	4	0	0.61	0.07	0.42	0.24
MW-5	4	25	0.51	0.13	0.25	0.18

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	1.5
MW-1	02/04/99	0.0050	3.5
MW-1	04/29/99	0.0050	3.5
MW-1	07/23/99	0.0025	1.5
Background Data Rank-Sum:			10.0
MW-5	11/23/98	0.2420	7.0

MW-5	02/04/99	0.5060	8.0
MW-5	04/29/99	0.1250	5.0
MW-5	07/23/99	0.1330	6.0

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4226
Approx Z-Score Z:	2.1913
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:42

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Xylene Xylene

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.04	0.00	0.02	0.02
MW-4	4	100	0.00	0.00	0.00	0.00
MW-5	4	100	0.00	0.00	0.00	0.00

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	3.5
MW-1	02/04/99	0.0025	3.5
MW-1	04/29/99	0.0025	3.5
MW-1	07/23/99	0.0025	3.5
Background Data Rank-Sum:			14.0
MW-2	11/23/98	0.0320	7.0

MW-2	02/04/99	0.0410	8.0
MW-2	04/29/99	0.0025	3.5
MW-2	07/23/99	0.0025	3.5
	Compliance Data Rank-Sum:		22.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.6458
Approx Z-Score Z:	1.3229
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:43

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Xylene Xylene

CAS Number:-
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.04	0.00	0.02	0.02
MW-4	4	100	0.00	0.00	0.00	0.00
MW-5	4	100	0.00	0.00	0.00	0.00

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.5
MW-1	02/04/99	0.0025	4.5
MW-1	04/29/99	0.0025	4.5
MW-1	07/23/99	0.0025	4.5
Background Data Rank-Sum:			18.0
MW-4	11/23/98	0.0025	4.5

MW-4	02/04/99	0.0025	4.5
MW-4	04/29/99	0.0025	4.5
MW-4	07/23/99	0.0025	4.5

Compliance Data Rank-Sum: 18.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	8.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4641
Approx Z-Score Z:	-0.1443
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:14

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Xylene Xylene

CAS Number:♯\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.04	0.00	0.02	0.02
MW-4	4	100	0.00	0.00	0.00	0.00
MW-5	4	100	0.00	0.00	0.00	0.00

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.5
MW-1	02/04/99	0.0025	4.5
MW-1	04/29/99	0.0025	4.5
MW-1	07/23/99	0.0025	4.5
	Background Data Rank-Sum:		18.0
MW-5	11/23/98	0.0025	4.5

MW-5	02/04/99	0.0025	4.5
MW-5	04/29/99	0.0025	4.5
MW-5	07/23/99	0.0025	4.5

Compliance Data Rank-Sum: 18.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	8.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4641
Approx Z-Score Z:	-0.1443
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-15-1999 16:01

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Benzene Benzene

CAS Number:-
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.03	0.02	0.02	0.00
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	100	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0240	5.5

MW-2	02/04/99	0.0250	7.5
MW-2	04/29/99	0.0250	7.5
MW-2	07/23/99	0.0240	5.5

Compliance Data Rank-Sum: 26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:25

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Benzene Benzene

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	75	0.03	0.00	0.02	0.01
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	100	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-4	11/23/98	0.0025	4.0

MW-4	02/04/99	0.0125	8.0
MW-4	04/29/99	0.0025	4.0
MW-4	07/23/99	0.0025	4.0

Compliance Data Rank-Sum: 20.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	10.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.0000
Approx Z-Score Z:	0.7500
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:17

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Benzene Benzene

CAS Number:⇓\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.03	0.02	0.02	0.00
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	100	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-5	11/23/98	0.0025	4.0

MW-5	02/04/99	0.0025	4.0
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0025	4.0
	Compliance Data Rank-Sum:		20.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	10.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.0000
Approx Z-Score Z:	0.7500
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 08:57

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Cr Chromium, total

CAS Number: 7440-47-3
MCL: 0.000 ppm
ACL: 0.000 ppm
Detect Limit: 0.000 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	26.50	0.00	16.13	11.63
MW-4	4	100	0.00	0.00	0.00	0.00
MW-5	4	25	1.16	0.00	0.52	0.55

Well	Date	Observation	Rank
MW-1	11/23/98	0.0050	3.0
MW-1	02/04/99	0.0050	3.0
MW-1	04/29/99	0.0050	3.0
MW-1	07/23/99	0.0050	3.0
Background Data Rank-Sum:			12.0
MW-2	11/23/98	15.7000	6.0

MW-2	02/04/99	26.5000	8.0
MW-2	04/29/99	22.3000	7.0
MW-2	07/23/99	0.0050	3.0
	Compliance Data Rank-Sum:		24.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	14.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.0237
Approx Z-Score Z:	1.8190
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:20

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Cr Chromium, total

CAS Number:♫\ÿ♦⌠♠p
MCL: 0.100 ppm
ACL: 0.100 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	26.50	0.00	16.13	11.63
MW-4	4	100	0.00	0.00	0.00	0.00
MW-5	4	25	1.16	0.00	0.52	0.55

Well	Date	Observation	Rank
MW-1	11/23/98	0.0050	4.5
MW-1	02/04/99	0.0050	4.5
MW-1	04/29/99	0.0050	4.5
MW-1	07/23/99	0.0050	4.5
	Background Data Rank-Sum:		18.0
MW-4	11/23/98	0.0050	4.5

MW-4	02/04/99	0.0050	4.5
MW-4	04/29/99	0.0050	4.5
MW-4	07/23/99	0.0050	4.5

Compliance Data Rank-Sum: 18.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	8.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.4641
Approx Z-Score Z:	-0.1443
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:21

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Cr Chromium, total

CAS Number:♫\ÿ↕∫♠p
MCL: 0.100 ppm
ACL: 0.100 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	26.50	0.00	16.13	11.63
MW-4	4	100	0.00	0.00	0.00	0.00
MW-5	4	25	1.16	0.00	0.52	0.55

Well	Date	Observation	Rank
MW-1	11/23/98	0.0050	3.0
MW-1	02/04/99	0.0050	3.0
MW-1	04/29/99	0.0050	3.0
MW-1	07/23/99	0.0050	3.0
	Background Data Rank-Sum:		12.0
MW-5	11/23/98	0.7930	7.0

MW-5	02/04/99	0.1280	6.0
MW-5	04/29/99	0.0050	3.0
MW-5	07/23/99	1.1600	8.0

Compliance Data Rank-Sum: 24.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	14.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.0237
Approx Z-Score Z:	1.8190
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:46

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:ClEthane Chloroethane

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	100	0.05	0.00	0.03	0.03
MW-4	4	100	0.03	0.00	0.01	0.01
MW-5	4	75	0.13	0.00	0.04	0.06

Well	Date	Observation	Rank
MW-1	11/23/98	0.0050	3.5
MW-1	02/04/99	0.0050	3.5
MW-1	04/29/99	0.0050	3.5
MW-1	07/23/99	0.0050	3.5
Background Data Rank-Sum:			14.0
MW-2	11/23/98	0.0050	3.5

MW-2	02/04/99	0.0500	7.5
MW-2	04/29/99	0.0500	7.5
MW-2	07/23/99	0.0050	3.5

Compliance Data Rank-Sum: 22.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.6458
Approx Z-Score Z:	1.3229
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:47

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:ClEthane Chloroethane

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	100	0.05	0.00	0.03	0.03
MW-4	4	100	0.03	0.00	0.01	0.01
MW-5	4	75	0.13	0.00	0.04	0.06

Well	Date	Observation	Rank
MW-1	11/23/98	0.0050	4.0
MW-1	02/04/99	0.0050	4.0
MW-1	04/29/99	0.0050	4.0
MW-1	07/23/99	0.0050	4.0
Background Data Rank-Sum:			16.0
MW-4	11/23/98	0.0050	4.0

MW-4	02/04/99	0.0250	8.0
MW-4	04/29/99	0.0050	4.0
MW-4	07/23/99	0.0050	4.0

Compliance Data Rank-Sum: 20.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	10.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.0000
Approx Z-Score Z:	0.7500
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:16

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:ClEthane Chloroethane

CAS Number:♫\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	100	0.05	0.00	0.03	0.03
MW-4	4	100	0.03	0.00	0.01	0.01
MW-5	4	75	0.13	0.00	0.04	0.06

Well	Date	Observation	Rank
MW-1	11/23/98	0.0050	3.5
MW-1	02/04/99	0.0050	3.5
MW-1	04/29/99	0.0050	3.5
MW-1	07/23/99	0.0050	3.5
Background Data Rank-Sum:			14.0
MW-5	11/23/98	0.0130	7.0

MW-5	02/04/99	0.0050	3.5
MW-5	04/29/99	0.1250	8.0
MW-5	07/23/99	0.0050	3.5

Compliance Data Rank-Sum: 22.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.6458
Approx Z-Score Z:	1.3229
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-15-1999 16:21

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Toluen Toluene

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	0.06	0.01	0.03	0.02
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	100	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	2.5
MW-1	02/04/99	0.0025	2.5
MW-1	04/29/99	0.0025	2.5
MW-1	07/23/99	0.0025	2.5
Background Data Rank-Sum:			10.0
MW-2	11/23/98	0.0100	5.0

MW-2	02/04/99	0.0650	8.0
MW-2	04/29/99	0.0250	6.5
MW-2	07/23/99	0.0250	6.5
	Compliance Data Rank-Sum:		26.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	16.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	3.2293
Approx Z-Score Z:	2.3225
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score exceeds $Z\alpha$ there is significant evidence of contamination at the compliance well.

Wilcoxon Rank-Sum Test

Report Printed: 09-14-1999 10:35

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Toluen Toluene

CAS Number:
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	50	0.06	0.00	0.03	0.03
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	100	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-4	11/23/98	0.0025	4.0

Wilcoxon Rank-Sum Test

Report Printed: 10-26-1999 18:13

Facility:MSD007037278 Textron Automotive Company

Address:635 highway 332

City:Grenada ST:MS Zip:38901
County:GRENADA

Contact:Don Williams
Phone:(662)226-1161

Permit Type:Background

Constituent:Toluen Toluene

CAS Number:‼\ÿ↕⌠♠p
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Nov 23 1998
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	4	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	4	25	0.06	0.01	0.03	0.02
MW-4	4	100	0.01	0.00	0.00	0.00
MW-5	4	100	0.06	0.00	0.02	0.03

Well	Date	Observation	Rank
MW-1	11/23/98	0.0025	4.0
MW-1	02/04/99	0.0025	4.0
MW-1	04/29/99	0.0025	4.0
MW-1	07/23/99	0.0025	4.0
Background Data Rank-Sum:			16.0
MW-5	11/23/98	0.0025	4.0

MW-5	02/04/99	0.0025	4.0
MW-5	04/29/99	0.0625	8.0
MW-5	07/23/99	0.0025	4.0

Compliance Data Rank-Sum: 20.0

Background Data Pts m:	4
Compliance Data Pts n:	4
Wilcoxon Statistic W:	10.0000
Expected Value E(W):	8.0000
Std Dev SD(W):	3.4641
Std Dev (Ties) SD'(W):	2.0000
Approx Z-Score Z:	0.7500
Significance Level α:	0.05
$Z\alpha$:	1.6449

Since the Approx. Z-Score does not exceed $Z\alpha$ there is no significant evidence of contamination at the compliance well.