Eco•Systems, Inc.
Consultants, Engineers, and Scientists

September 22, 2000

Mr. Louis Crawford
Environmental Permits Division - Chemical, Agricultural, and Metal Manufacturing Branch
Mississippi Department of Environmental Quality - Office of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385

Re: Semi-Annual Groundwater Sampling Report (S2'2000) and Annual Report
HWMP No. HW-007-037-278
Grenada Manufacturing Company, Inc./ Textron, Inc.

Dear Mr. Crawford:

The enclosed above-referenced report is submitted on behalf of Grenada Manufacturing Company, Inc. (Grenada Manufacturing) and Textron, Inc. (Textron) to the Mississippi Department of Environmental Quality (MDEQ). This report presents the laboratory analytical results for groundwater samples collected during the second semi-annual sampling event (S2'2000) as required by the HWMP No. HW-007-037-278 for the Grenada Manufacturing facility located in Grenada, Mississippi. The annual groundwater statistical analysis is included in this report. The sampling was performed on July 12, 2000 for the groundwater monitoring wells installed adjacent to the SWMU#2.

The data reveals detections of Chromium, Toluene, Trichloroethylene (TCE) and TCE daughter break-down products in the down-gradient wells. As illustrated in the Annual Report completed after the Third Quarter 1999 event, the data continues to suggest sources of impact other than the closed unit. We will continue to evaluate these trends in future sampling events. The next sampling event is tentatively scheduled for March of 2001.

This report may be placed in the binder for the calendar year 2000 provided with the S1' 2000 report. Please note that the annual statistical evaluation was incorporated into the S2' 2000 report instead of as a stand-alone report. You may discard the "ANNUAL REPORT" tab in the binder supplied to you. If you have any questions, please do not hesitate to call us at (601) 936-4440 or Mr. John Kandler at (401) 457-2363.

439 Katherine Drive, Suite 2A • Jackson, MS 39208 • Phone (601) 936-4440 • Fax (601) 936-4463

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

September 27, 2000

Mr. Don Williams, Plant Environmental Coordinator
Grenada Manufacturing, LLC
635 Highway 332
Grenada, MS 38901

Dear Mr. Williams:

Re: Groundwater Monitoring Report
July 12, 2000, Sampling Event
Grenada Manufacturing, LLC (MSD 007 037 278)
Grenada, Grenada County

Receipt is acknowledged of the referenced document. Detailed review of the report will not be performed pending submittal of the application to modify the RCRA Permit as requested in our letter of September 21, 2000.

If you have any questions, please call me at 601-961-5117.

Sincerely,

Louis Crawford, P.E.
Environmental Permits Division

pc: Mr. Caleb Dana, Jr., P.E., Eco-Systems, Inc.
Mr. Don Webster, U.S. EPA Region 4 ← THIS COPY FOR

d18/textron/gw-00-2

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RCRA PROGRAMS BRANCH

Very truly yours,
Eco·Systems, Inc.

Wade Steinriede
Staff Scientist

Caleb H. Dana, Jr., P.E., CHMM
Principal Engineer

cc: Mr. Don Williams (Grenada Manufacturing)
Mr. Don Webster (USEPA Region IV)
Mr. John Kandler (Textron, Inc.)

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APPENDIX B	ANALYTICAL DATA SHEETS
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1.0 INTRODUCTION

Eco·Systems, Inc. (*Eco·Systems*) has received final analytical results for the Second Semi-Annual event of 2000 (S-2 2000) groundwater samples collected from groundwater wells located at the closed lagoon at the Grenada Manufacturing, LLC automotive parts plant in Grenada, Mississippi. This work was performed on behalf of Textron, Inc. and Grenada Manufacturing. This sampling and analysis effort represents the second round of semi-annual sampling required under Section IV. F.1 of Grenada Manufacturing's Hazardous Waste Management (HWM) permit No. MSD007037278. Field activities were conducted on July 12, 2000. This report, along with subsequent reports, may be inserted after the "S-2 2000" tab in the RCRA Semi-Annual Groundwater Monitoring (Solid Waste Management Unit (SWMU) #2) binder provided with the S-1 2000 report.

Background information pertaining to the Site may be referenced in the Fourth Quarter, 1998 report. Groundwater collection methodologies, sample identification rationale, analytical methods, quality assurance/quality control (QA/QC) procedures, and historical groundwater sampling results for the Site are also included in the Fourth Quarter, 1998 report for review. Analytical results for the S-1 2000 sampling event are presented in subsequent sections organized as follows:

- Investigative results of the sampling event (Section 2.0);
- Statistical analysis of data collected for the past two (2) events (Section 3.0), and
- A report summary and conclusions (Section 4.0).

2.0 GROUNDWATER SAMPLING RESULTS

Groundwater samples were collected on July 12, 2000 from the four (4) monitoring wells specified in the permit utilizing methods and procedures described in Section 2.0 of the Fourth Quarter, 1998 report. Each groundwater sample was analyzed for Appendix IX Volatile Organics, Semivolatile Organics, and the eight (8) RCRA Metals as specified in the RCRA permit. As presented below, detectable results of several compounds of concern were identified from groundwater samples collected during this event (Table 1; Figure 1). Groundwater collection forms are provided in Appendix A and laboratory analytical data sheets may be found in Appendix B.

2.1 APPENDIX IX VOLATILES

As presented in Table 1, groundwater analytical results for all four (4) of the wells sampled during this event revealed detectable concentrations greater than the laboratory-derived practical quantitation limit (PQL) of at least one (1) of the Appendix IX Volatile Organic Compounds (VOCs). Results are reported in milligrams per liter (mg/L), which is equivalent to parts per million (ppm). Several chlorinated VOCs, including Trichloroethene (TCE), and several potentially associated degradation products, were identified in wells MW-1, MW-2, MW-4, and MW-5. TCE was detected in these wells at levels ranging from 0.0877 mg/L in MW-1 to 10.7 mg/L in MW-2. Several other "degradation products" including 1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), and trans-1,2-Dichloroethene (t,1,2-DCE) were identified in downgradient wells at levels up to 0.0425 mg/L (t,1,2-DCE, MW-4). Tetrachloroethene (PCE) was not detected in any of the wells during this sampling event. Vinyl Chloride (VC), one of the final chlorinated degradation products of TCE, was detected in MW-2, MW-4 and MW-5 at 0.297 mg/L, 0.849 mg/L, and 0.17 mg/L, respectively.

2.2 APPENDIX IX SEMIVOLATILES

As presented in Table 1, the Appendix IX Semivolatile Organic Compound (SVOC) 1,2,4-Trichlorobenzene was identified in the groundwater sample collected from MW-2 during this event at a level of 0.0238 mg/L. All other SVOC results were non-detect (less than the PQL).

2.3 SELECT APPENDIX IX METALS

One (1) of the four (4) wells sampled during this event revealed detectable levels (greater than the PQL) of two (2) of the Appendix IX RCRA Metals. Total Chromium was detected in the groundwater sample collected from MW-2 at a concentration of 10.8 mg/L. Lead was also detected in well MW-2 at a concentration of 0.0073 mg/L. All other listed metals were non-detect (less than the PQL) in groundwater samples collected during S-2 2000 (Table 1).

2.4 GROUNDWATER FLOW PATTERNS

Water level elevation data obtained during this event is presented in Table 2. As shown on the potentiometric surface map in Figure 2, flow in the vicinity of the closed Equalization Lagoon is generally to the *northwest*. This flow pattern appears to be generally consistent with historical patterns of the Site.

2.5 QA/QC RESULTS

QA/QC procedures were performed in accordance with Textron's QAPP to assure validity of sampling results. A total of one (1) duplicate sample, one (1) trip blank sample, and one (1) matrix spike/matrix spike duplicate (MS/MSD) sample was collected. Duplicate sample results are shown in Table 3 and correspond well with the normal sample results also presented for comparison. In addition, results from the trip blank sample are included in Table 3.

A QA/QC review was performed on all analytical data collected during the current sampling event. Methylene Chloride was detected at very low levels (below the PQL) in all analytical samples, including the trip blank. Because this chemical is a common laboratory contaminant its presence in the samples suggests laboratory instrument contamination as indicated in the Report Qualifiers report included with the analytical data sheets in Appendix B. All methylene chloride results below the PQL have been qualified with a "J" indicating that the result is an estimated value because it is below the adjusted reported limit but above the instrument reporting limit. In general, *Eco·Systems* concluded that the laboratory analyses were conducted under well-controlled conditions, and with sufficient precision and accuracy to provide accurate analytical results.

3.0 STATISTICAL ANALYSIS OF GROUNDWATER RESULTS

3.1 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 two (2) semi-annual sampling events for 2000 (Q1 2000 and Q2 2000). Data collected during these events will be used in conjunction with future events to determine whether or not the closed unit is adversely affecting groundwater in the area. Since these two (2) 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 4.3 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 for all parameters except TCE 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%). Because a comparison of background data to compliance well data was desired, the Wilcoxon Rank-Sum test was selected and implemented.

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 that were reported as less than the PQL were replaced by that particular PQL. Non-detects with elevated PQL's were also replaced by the elevated 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 the sampling events used in this report may be referenced in the applicable quarterly reports.

3.2 RESULTS OF STATISTICAL ANALYSES

Statistically significant tests are summarized on Table 3.2.1 and calculation printouts for tests performed are included in Appendix C. Twenty-six (26) tests produced statistically significant results for eight (8) different groundwater constituents upon comparison of background to compliance wells. These included one Appendix IX Metal,

Chromium; and seven (7) Appendix IX VOC's which were TCE, Vinyl Chloride, t,1,2 DCE, PCE, 1,1-DCA, 1,1-DCE, and 1,1,1-TCA. The table below illustrates the mean concentration of the significant constituents for the two (2) semi-annual events:

TABLE 3.2.1: 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	0.09	16.15*	0.23	0.90*
1,2-DCE	0.00	0.04*	0.03*	0.02*
Vinyl Chloride	0.00	0.17*	0.07*	0.10*
PCE	0.00	0.05*	0.00	0.00
1,1-DCA	0.00	0.04*	0.00	0.00
1,1-DCE	0.00	0.04*	0.01	0.00
1,1,1-TCA	0.00	0.04*	0.00	0.00
Chromium	0.00	12.00*	0.00	0.01

* 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). Concentrations of TCE and its potential degradation products t,1,2-DCE, 1,1-DCA, 1,1-DCE, 1,1,1-TCA, and Vinyl Chloride, were determined to be significantly increased in at least one (1) of the three (3) compliance wells when compared to the background well.

3.3 OTHER CONSIDERATIONS

The generalized flow pattern of the groundwater across the Site is to the northwest (see Figure 2). 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. Further discussion of the basis for the judgement that the detected parameters and concentrations are from sources other than the closed lagoon were presented in the S-1 2000 report. The current data appears to be consistent with this previous conclusion.

4.0 SUMMARY AND CONCLUSIONS

Eco·Systems was commissioned by Textron, Inc. and Grenada Manufacturing, LLC to perform semi-annual groundwater sampling and analysis in accordance with the facility's RCRA permit for the closed Equalization Lagoon. This event represents the second sampling event required under the permit. Water levels and groundwater samples were collected from four (4) monitoring wells surrounding the regulated unit on July 12, 2000 and analyzed for Appendix IX Volatiles, Semivolatiles, and selected Metals. The analytical results have been presented in tabular form (Table 1) and illustrated in Figure 1 for select compounds of concern. The potentiometric surface and resultant flow patterns were evaluated through the construction of a potentiometric surface map of the Site (Figure 2). Concentrations of TCE in the vicinity of the Lagoon have been illustrated on an isoconcentration map (Figure 3). Based on review of the groundwater data collected during the S-2 2000 event and statistical analysis performed on data collected during the first two (2) semi-annual events, *Eco·Systems* presents the following summary and conclusions:

- The industrial solvent TCE was detected in all downgradient wells at concentrations of 10.7 mg/L (MW-2), 0.222 mg/L (MW-4), and 0.469 mg/L (MW-5) which are decreased levels compared to the S-1 2000 sampling event. Associated chlorinated degradation products were also observed including VC, which was detected at 0.297 mg/L in MW-2, 0.849 mg/L in MW-4 and 0.17 mg/L in MW-5 which are all increased levels compared to S-1 2000. The Maximum Contaminant Level (MCL; EPA, December, 1995) for TCE and VC are 0.005 mg/L and 0.002 mg/L, respectively.

- TCE was also detected in the background monitoring well, MW-1, at a concentration of 0.088 mg/L.

- A low-level concentration (0.0238 mg/L) of the Appendix IX SVOC 1,2,4-Trichlorobenzene was observed in monitoring well MW-2. This concentration is decreased from 0.054 mg/L in S1-2000.

- Decreased levels of the RCRA metal Chromium (total) compared to the S-1 2000 event were observed (from 13.2 mg/L to 10.8 mg/L in the sample collected from MW-2, and from 0.012 mg/L to non-detect in the sample collected from MW-5). The MCL for Total Chromium is 0.100 mg/L.

- Groundwater flow across the Site is generally to the northwest.

- Statistical analysis of the groundwater data collected during the first two (2) semi-annual events revealed statistically significant levels of seven (7) Appendix IX VOC's (TCE, Vinyl Chloride, t,1,2-DCE, PCE, 1,1-DCA, 1,1-DCA, and 1,1,1-TCA) and one (1) Appendix IX Metal (Chromium) in at least one (1) of the three (3) downgradient compliance wells.

- 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 other than the closed unit 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
GROUNDWATER ANALYTICAL RESULTS
RCRA GROUNDWATER MONITORING - SECOND SEMI-ANNUAL EVENT 2000
GRENADA MANUFACTURING, LLC
GRENADA, MISSISSIPPI

PARAMETER[1]	PQL[2] (mg/L)	EPA MCL[3]	RESULT CONCENTRATION (mg/L)[4]			
			MW-1	MW-2	MW-4	MW-5
APPENDIX IX VOLATILES (METHOD 8260)						
Benzene	0.005	0.005	ND[5]	ND	ND	ND
Chloroethane	0.010	NC[7]	ND	ND	ND	ND
1,1 - Dichloroethane	0.005	NC	ND	ND	0.0059	0.0029J[6]
1,1 - Dichloroethene	0.005	NC	ND	0.0393J	0.0115	0.0047J
Ethylbenzene	0.005	0.7	ND	ND	ND	ND
Methylene Chloride	0.005	NC	0.0012J	0.0373J	0.002J	0.0021J
trans - 1,2-Dichloroethene	0.005	NC	ND	ND	0.0425	0.0187
Tetrachloroethene	0.005	NC	ND	ND	ND	ND
Toluene	0.005	1.0	ND	ND	ND	ND
1,1,1 - Trichloroethane	0.005	NC	ND	ND	ND	ND
1,1,2 - Trichloroethane	0.005	0.005	ND	ND	ND	ND
Trichloroethene	0.025	0.005	0.0877	10.7	0.222	0.469
Vinyl Chloride	0.010	0.002	ND	0.297	0.849	0.17
All Other Compounds	0.005-0.500	-	ND	ND	ND	ND
APPENDIX IX SEMI-VOLATILES (METHOD 8270)						
Pentachlorophenol	0.025	0.001	ND	0.0041J	ND	ND
1,2,4-Trichlorobenzene	0.010	0.07	ND	0.0238	ND	ND
All Other Compounds	0.010-0.050	-	ND	ND	ND	ND
APPENDIX IX METALS (METHOD 6000/7000 SERIES)						
Arsenic	0.010	0.05	ND	ND	ND	ND
Barium	0.200	2.00	ND	ND	ND	ND
Cadmium	0.005	0.005	ND	ND	ND	ND
Chromium (total)	0.010	0.10	ND	10.8	ND	ND
Lead	0.003	0.015	ND	0.0073	ND	ND
Mercury	0.0002	0.002	ND	ND	ND	ND
Selenium	0.005	0.05	ND	ND	ND	ND
Silver	0.010	0.10	ND	ND	ND	ND

[1] Samples were analyzed for Appendix IX List VOCs, SVOCs, and RCRA Metals. See Appendix C for full list results and detection limits.
[2] PQL = Practical quantitation limit, or detection limit, for the individual analyses. Necessary sample dilution has raised the PQL of the MW-2 sample.
[3] MCL = Maximum Contaminant Level established by the Environmental Protection Agency Office of Ground Water and Drinking Water.
[4] Result concentrations are reported in milligrams per liter (mg/L), equivalent to parts per million (ppm).
[5] Result was below the PQL, or "Non-Detect".
[6] J = Analyte detected but below the laboratory-derived reporting limit. Value is estimated.
[7] NC = No Criteria. An MCL has not been established.

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TABLE 2

POTENTIOMETRIC SURFACE DATA SHEET

RCRA GROUNDWATER MONITORING - SECOND SEMI-ANNUAL EVENT 2000

GRENADA MANUFACTURING, LLC

GRENADA, MISSISSIPPI

WELL NO.	TOC ELEVATION (ft. MSL)[1]	WATER DEPTH (feet)[2]	GROUNDWATER ELEVATION (ft. MSL)
MW-1	185.18	14.37	170.81
MW-2	184.56	14.25	170.31
MW-3	184.00	13.46	170.54
MW-4	184.33	14.18	170.15
MW-5	184.17	14.00	170.17

[1] TOC = "top of well casing" measured in feet above mean sea level (ft. MSL). The protective metal casing was surveyed by others.

[2] Water depth is a relative depth from the TOC (PVC well).

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TABLE 3
QA/QC ANALYTICAL RESULTS
RCRA GROUNDWATER MONITORING - SECOND SEMI-ANNUAL EVENT 2000
GRENADA MANUFACTURING, LLC
GRENADA, MISSISSIPPI

PARAMETER	PQL[1] (mg/L)	RESULT CONCENTRATIONS (mg/L)[2]		
		Trip Blank	MW-5	Duplicate (from MW-5)
APPENDIX IX VOLATILES (METHOD 8260)				
Chloroethane	0.010	ND[3]	ND	ND
1,1 - Dichloroethane	0.005	ND	0.0029J[4]	0.0027J
1,1 - Dichloroethene	0.005	ND	0.005	0.0048J
Methylene Chloride	0.005	0.0012J	0.0021J	0.0019J
trans - 1,2-Dichloroethene	0.005	ND	0.0187	0.0177
Tetrachloroethene	0.005	ND	ND	ND
Toluene	0.005	ND	ND	ND
1,1,1 - Trichloroethane	0.005	ND	ND	ND
1,1,2 - Trichloroethane	0.005	ND	ND	ND
Trichloroethene	0.005	ND	0.469	0.477
Vinyl Chloride	0.010	ND	0.17	0.158
All Other Compounds	0.005 - 0.500	ND	ND	ND
APPENDIX IX SEMI-VOLATILES (METHOD 8270)				
Pentachlorophenol	0.025	NA[5]	ND	ND
1,2,4-Trichlorobenzene	0.010	NA	ND	ND
All Other Compounds	0.010-0.050	NA	ND	ND
APPENDIX IX METALS (METHOD 6000/7000 SERIES)				
Arsenic	0.010	NA[5]	ND	ND
Barium	0.200	NA	ND	ND
Cadmium	0.010	NA	ND	ND
Chromium	0.010	NA	ND	ND
Lead	0.003	NA	ND	ND
Mercury	0.0002	NA	ND	ND
Selenium	0.005	NA	ND	ND
Silver	0.010	NA	ND	ND

[1] PQL = Practical quantitation limit, or detection limit, for the individual analyses.

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

[3] Result was below the PQL, or "Non-Detect"

[4] J = Analyte detected but below the laboratory-derived reporting limit. Value is estimated.

[5] Inorganic analyses were "not applicable" per convention and project scope.

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TABLE 4
SEMI-ANNUAL RCRA GROUNDWATER SAMPLING - HISTORICAL RESULTS
GRENADA MANUFACTURING COMPANY - GRENADA, MISSISSIPPI

PARAMETER[1]	PQL (mg/L)[2]	MARCH, 2000 RESULT (mg/L)				JULY, 2000 RESULT (mg/L)			
		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]	0.002J	ND	ND	ND	ND*	ND	ND
Chloroethane	0.010	ND	ND	ND	ND	ND	ND*	ND	ND
1,1 - Dichloroethane	0.005	ND	0.0103	ND	0.003J	ND	ND*	0.0059	0.0029J
1,1 - Dichloroethene	0.005	ND	0.0255	0.004J	0.006	ND	0.0393J	0.0115	0.0047J
Ethylbenzene	0.005	ND	0.002J	ND	ND	ND	ND*	ND	ND
Methylene Chloride	0.005	0.002J	0.002J	0.002J	0.002J	0.0012J	0.0373J	0.002J	0.0021J
t - 1,2-Dichloroethene	0.005	ND	0.0141	0.0159	0.0295	ND	ND*	0.0425	0.0187
Tetrachloroethene	0.005	ND	0.0392	ND	ND	ND	ND*	ND	ND
Toluene	0.005	ND	0.0257	ND	ND	ND	ND*	ND	ND
1,1,1 - Trichloroethane	0.005	ND	0.013	ND	ND	ND	ND*	ND	ND
1,1,2 - Trichloroethane	0.005	ND	ND	ND	ND	ND	ND*	ND	ND
Trichloroethene	0.005	0.102	21.6	0.232	1.33	0.0877	10.7	0.222	0.469
Vinyl Chloride	0.010	ND	0.173	0.073	0.0973	ND	0.297	0.849	0.17
All Others Not Listed	0.010	ND	ND	ND	ND	ND	ND*	ND	ND
APPENDIX IX SEMI-VOLATILES (METHOD 8270)									
2-Methylnapthalene	0.010	ND	0.002J	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.010	ND	0.054	ND	0.003J	ND	0.024	ND	ND
Others	0.010	ND	ND	ND	ND	ND	ND	ND	ND
APPENDIX IX METALS (METHOD 6000/7000 SERIES)									
Chromium (total)	0.010	ND	13.2	ND	ND	ND	10.8	ND	ND
Lead	0.003	ND	0.0047	ND	0.012	ND	0.007	ND	ND
Selenium	0.005	ND	ND	ND	0.0052	ND	ND	ND	ND

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

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

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

J = Analyte was detected below the PQL and is estimated.

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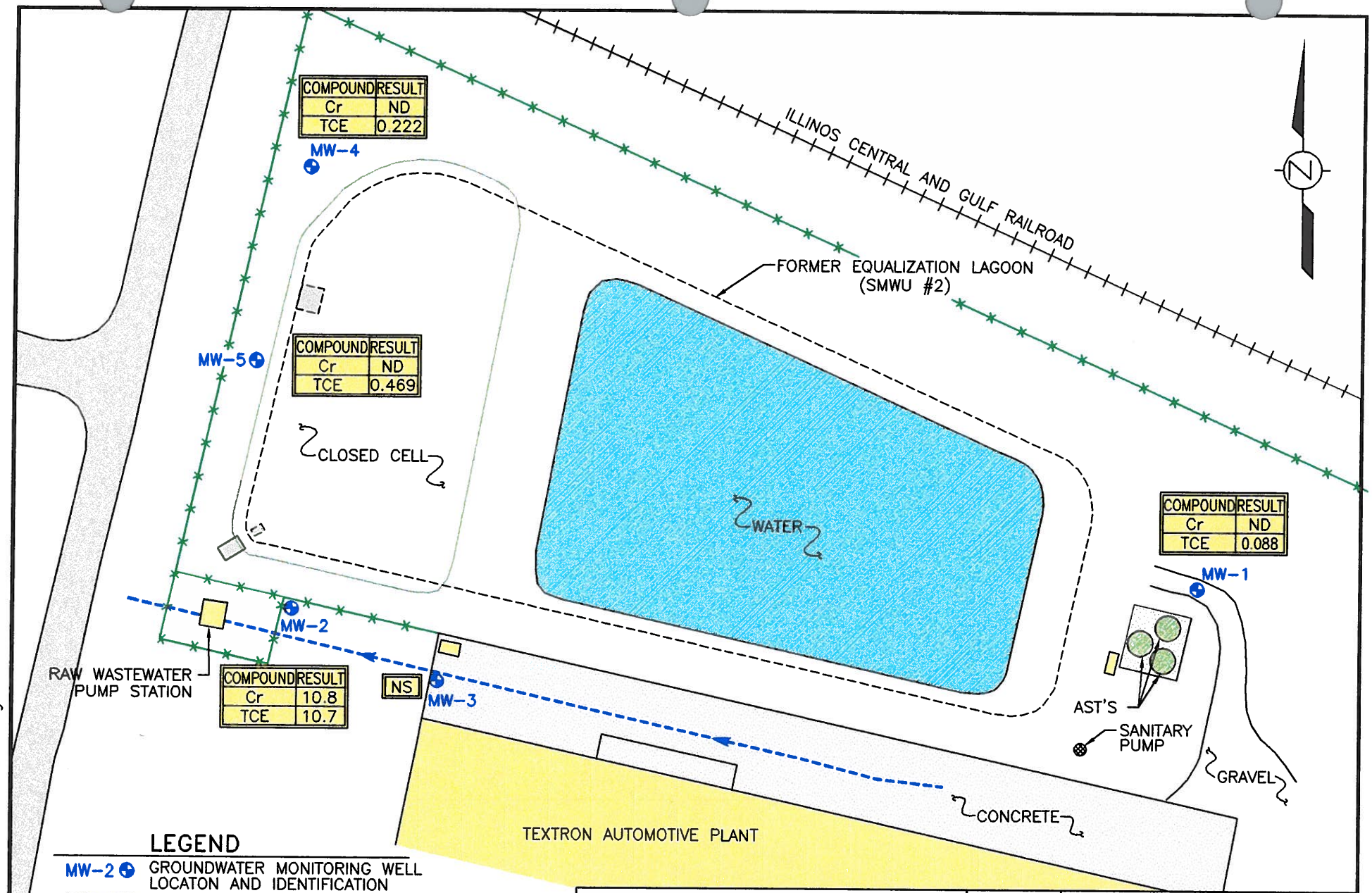
FIGURES



LEGEND

- MW-2 — GROUNDWATER MONITORING WELL LOCATON AND IDENTIFICATION
- COMPOUND RESULT Cr 18.8 TCE 22.5 — ANALYTICAL RESULT FOR TOTAL CHROMIUM (Cr) AND TRICHLOROETHENE (TCE) IN PARTS PER MILLION (ppm)
- NS — WELL NOT SAMPLED
- PROCESS WASTEWATER WITH FLOW DIRECTION
- FENCE LINE

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

GRENADA MANUFACTURING, LLC.
GRENADA, MISSISSIPPI

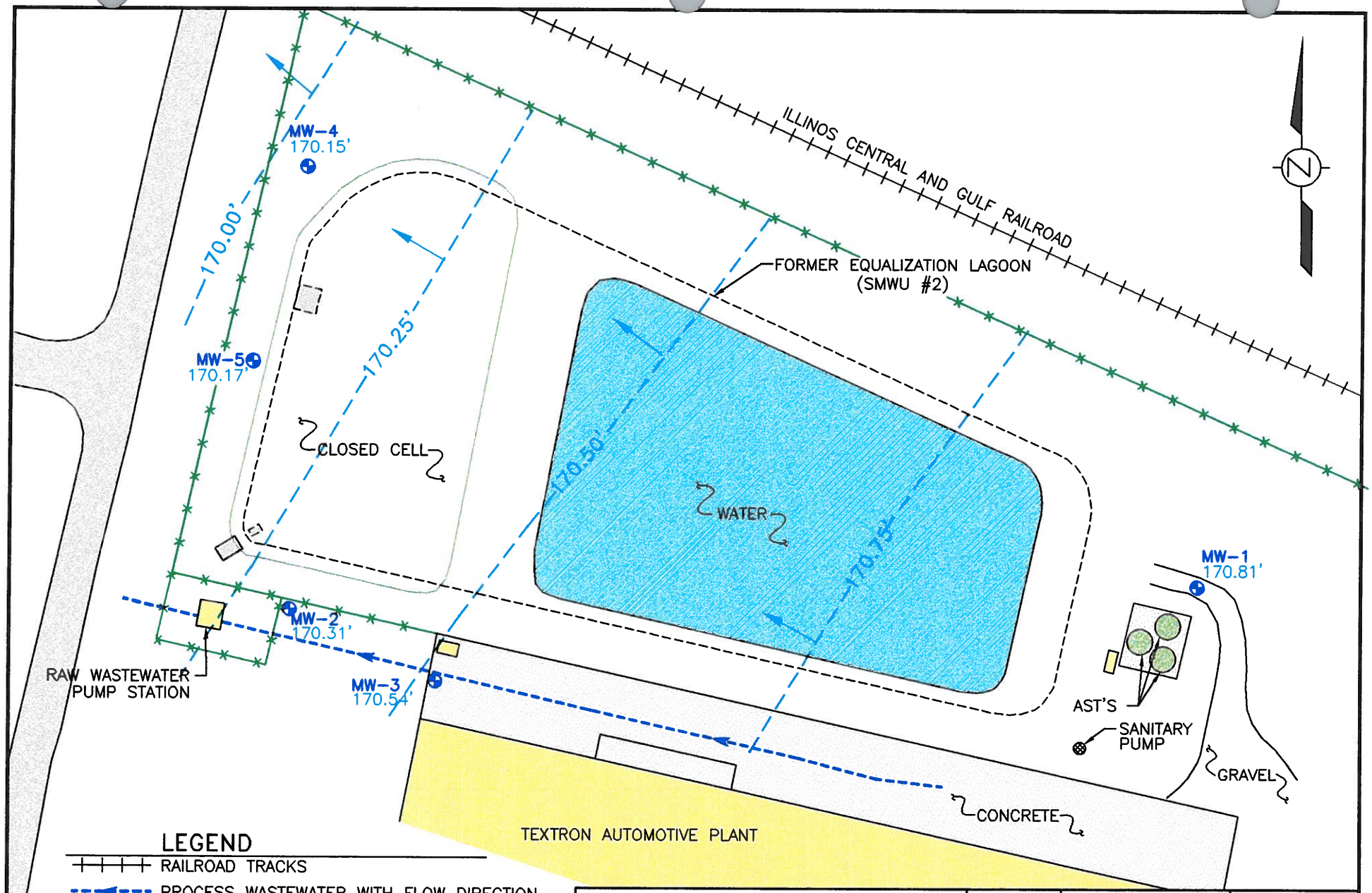
Eco-Systems, Inc.
Consultants, Engineers and Scientists

APPROX. SCALE 1"=80'	DRAWN BY: R. HOOKS	DATE: 8-9-00
	CHKD. BY: WS	DATE: 8-9-00
PROJECT NO. TAC20029	CAD FILE 20029GA.DWG	

GROUNDWATER ANALYTICAL COMPOUNDS OF CONCERN
SECOND SEMI-ANNUAL EVENT, 2000

FIGURE 1

R.H. 08/09/2000 14:08 20029GA.dwg



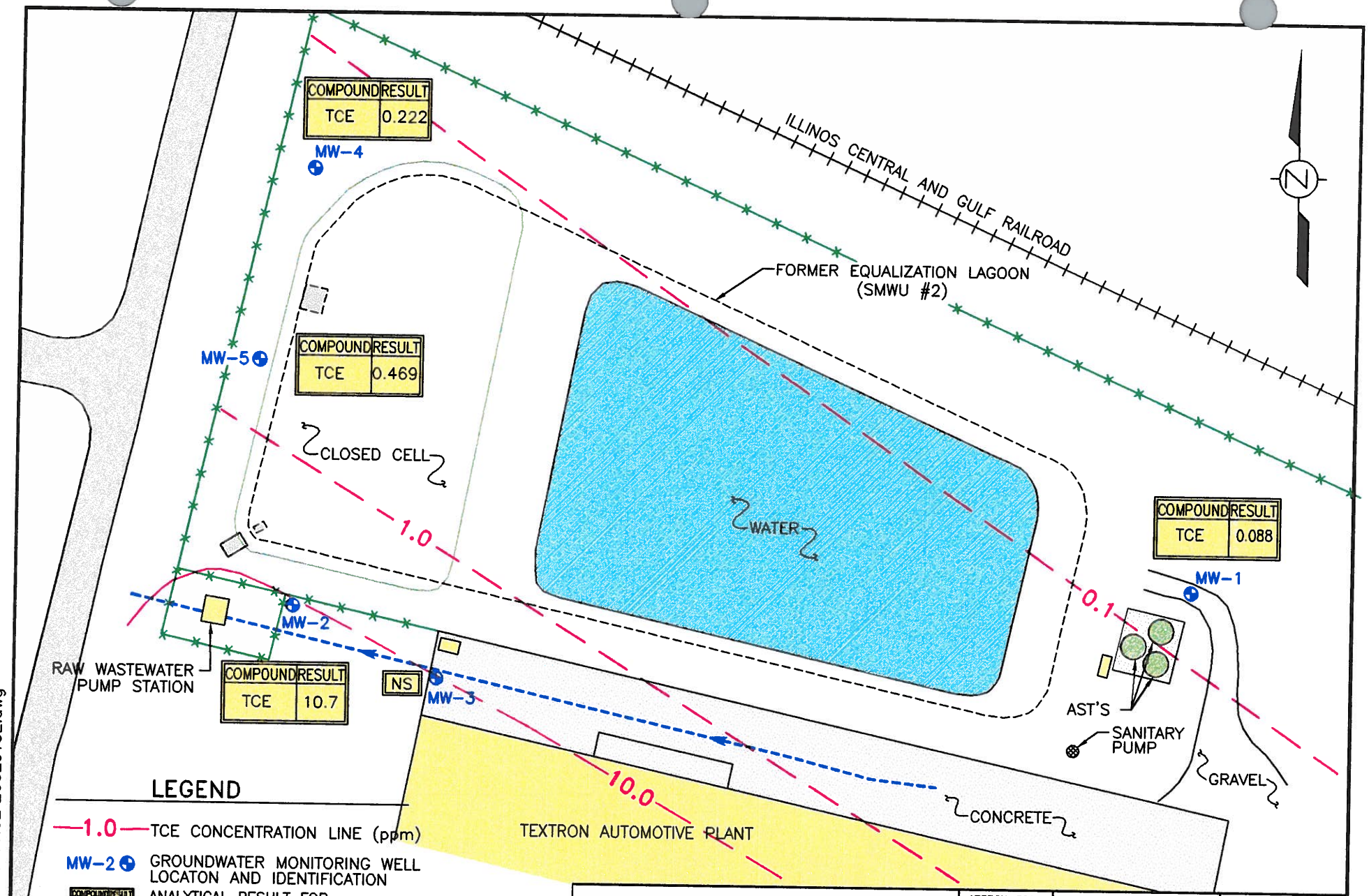
LEGEND

- RAILROAD TRACKS
- PROCESS WASTEWATER WITH FLOW DIRECTION
- MW-2 170.31 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WTIH GROUNDWATER ELEVATION (FT. MSL)
- FENCE LINE
- —172.0— POTENTIOMETRIC SURFACE CONTOUR WITH FLOW DIRECTION

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

TEXTRON AUTOMOTIVE COMPANY GRENADA, MISSISSIPPI	APPROX. SCALE 1"=80'	DRAWN BY: R. HOOKS	DATE: 8-9-00
		CHKD. BY: WS	DATE: 8-9-00
	PROJECT NO. TAC20029	CAD FILE 20029PSM.DWG	
Eco-Systems, Inc. Consultants, Engineers and Scientists	POTENTIOMETRIC SURFACE MAP SECOND SEMI-ANNUAL EVENT, 2000 JULY 12, 2000		FIGURE 2

R.H. 08/09/2000 13:17 20029PSM.DWG



LEGEND

- 1.0 — TCE CONCENTRATION LINE (ppm)
- MW-2 — GROUNDWATER MONITORING WELL LOCATON AND IDENTIFICATION
- COMPOUND RESULT / TCE 22.5 — ANALYTICAL RESULT FOR TRICHLOROETHENE (TCE) IN PARTS PER MILLION (ppm)
- NS — WELL NOT SAMPLED
- PROCESS WASTEWATER WITH FLOW DIRECTION
- FENCE LINE

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

GRENADA MANUFACTURING, LLC.
GRENADA, MISSISSIPPI

Eco·Systems, Inc.
Consultants, Engineers and Scientists

APPROX. SCALE 1"=80'	DRAWN BY: R. HOOKS	DATE: 8-9-00
	CHKD. BY: WS	DATE: 8-9-00
PROJECT NO. TAC20029	CAD FILE 20029TCE.DWG	

TCE ISOCONCENTRATION MAP
SECOND SEMI-ANNUAL EVENT, 2000

FIGURE 3

R.H. 08/14/2000 11:02 20029TCE.dwg

ESI

APPENDIX A

GROUNDWATER SAMPLE COLLECTION REPORTS

GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron S2'200
LOCATION: Grenada, MS
COLLECTOR (S): WS
WELL IDENTIFICATION: MW-4

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 14.~~18~~
TOP OF CASING TO BOTTOM: —
ELEVATION TOP OF CASING: —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-12-00 0745
METHOD OF EVACUATION: Peristaltic Pump
PURGE/SAMPLING DEPTH (FEET B.T.O.C.) ~~14~~ 19.85
TOTAL GALLONS EVACUATED: 1.5
WATER LEVEL FOLLOWING EVACUATION: DRY

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-12-00 1110
METHOD OF SAMPLING: As above
WATER LEVEL FOLLOWING SAMPLING: 19.85
TYPE OF SAMPLE: GW GRAB: X COMPOSITE: ____ OTHER: ____

SAMPLE REPRESENTATIVENESS DATA

~~X~~ No metering due to slow recharge

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:

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: Clear, hot
SAMPLE IDENTIFICATION: TAC-SWMU2-GW-04-06
CONTAINERS AND PRESERVATIVES: See chain of custody
COMMENTS AND OBSERVATIONS: Slow recharge

RECOMMENDATIONS: —

CERTIFICATION

SIGNATURE: ____ DATE: ____

Eco•Systems, Inc.

K.S. 01/[illegible]7 23:00 C:\ACADWIN\OS\ASIZE1

GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron S2'2000
LOCATION: Grenada, MS
COLLECTOR (S): WS
WELL IDENTIFICATION: MW-2

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 14.25
TOP OF CASING TO BOTTOM: —
ELEVATION TOP OF CASING: —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-12-00 1003
METHOD OF EVACUATION: Peristaltic Pump - Low flow / low stress
PURGE/SAMPLING DEPTH (FEET B.T.O.C.) Top of column
TOTAL GALLONS EVACUATED: 1.5 gal
WATER LEVEL FOLLOWING EVACUATION: 14.30

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-12-00 1018
METHOD OF SAMPLING: As above
WATER LEVEL FOLLOWING SAMPLING: 14.30
TYPE OF SAMPLE: GW
GRAB: X COMPOSITE: OTHER:

SAMPLE REPRESENTATIVENESS DATA

TIME	CUMULATIVE VOLUME	TEMP.	pH	CONDUCTIVITY	TURBIDITY
1005	0.1	74	6.3	380	
1008	0.4	72	6.2	400	0.4
1010	0.6			430	
1012	0.7			470	
1014	0.8				
1016	0.9				

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: clear, hot
SAMPLE IDENTIFICATION: TAC-SWMU2-GW-02-06
CONTAINERS AND PRESERVATIVES: See chain of custody
COMMENTS AND OBSERVATIONS: ~~Slow~~ Sampled w/ MS / MSD

RECOMMENDATIONS: —

CERTIFICATION

SIGNATURE: DATE:

Eco•Systems, Inc.

K.S. 01/3[illegible]/97 23:00 C:\ACADWIN\OS\ASIZE1

GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME Textron S2'2000 LOCATION Grenada, MS

COLLECTOR (S) WS WELL IDENTIFICATION MW-1

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL 14.37 TOP OF CASING TO BOTTOM —

ELEVATION TOP OF CASING —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-12-00 0850

METHOD OF EVACUATION: Peristaltic Pump - Low flow / low stress

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

TOTAL GALLONS EVACUATED: 0.40

WATER LEVEL FOLLOWING EVACUATION: 14.42

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-12-00 0913

METHOD OF SAMPLING: As above

WATER LEVEL FOLLOWING SAMPLING: 14.42

TYPE OF SAMPLE: GW GRAB: X COMPOSITE: OTHER:

SAMPLE REPRESENTATIVENESS DATA

TIME	CUMULATIVE VOLUME	TEMP.	pH	CONDUCTIVITY	TURBIDITY
0905	0.1	77	6.1	600	1.5
0907	0.12	76	5.9	660	
0908	0.15	76	↓	740	
0910	0.20	75	↓	720	0.62

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: clear, hot

SAMPLE IDENTIFICATION: TAC-SWMU2-GW-01-06

CONTAINERS AND PRESERVATIVES: See chain of custody

COMMENTS AND OBSERVATIONS: —

RECOMMENDATIONS: —

CERTIFICATION

SIGNATURE: DATE:

Eco•Systems, Inc.

K.S. 01/3[illegible]97 23:00 C:\ACADWIN\OS\ASIZE1

GROUNDWATER SAMPLE COLLECTION REPORT

FIELD LOG

PROJECT NAME: Textron S2 '2000
LOCATION: Grenada, MS
COLLECTOR (S): WS
WELL IDENTIFICATION: ~~MW 3~~ CUB MW-5

MONITORING WELL DATA

TOP OF CASING TO STATIC WATER LEVEL: 14.0
TOP OF CASING TO BOTTOM: —
ELEVATION TOP OF CASING: —

MONITORING WELL EVACUATION

EVACUATION: (DATE/TIME) 7-12-00 0755
METHOD OF EVACUATION: Peristaltic Pump- Low flow / low stress
PURGE/SAMPLING DEPTH (FEET B.T.O.C.) Top of column
TOTAL GALLONS EVACUATED: 0.5 gal
WATER LEVEL FOLLOWING EVACUATION: 14.05

MONITORING WELL SAMPLING

SAMPLING (DATE/TIME): 7-12-00 0812
METHOD OF SAMPLING: ~~Per~~ As above
WATER LEVEL FOLLOWING SAMPLING: 14.04
TYPE OF SAMPLE: GW
GRAB: X COMPOSITE: ____ OTHER: ____

SAMPLE REPRESENTATIVENESS DATA

TIME	CUMULATIVE VOLUME	TEMP.	pH	CONDUCTIVITY	TURBIDITY
0759	0.2	71	7.1	260	0.89
0800	0.25	↓	6.6	280	
0802	0.35	↓	6.6	290	
0803	0.40	↓	6.4	290	
0806	0.50	↓	6.4	290	

GENERAL INFORMATION

WEATHER CONDITIONS AT TIMES OF SAMPLING: clear, hot
SAMPLE IDENTIFICATION: TAC-S WMU2 - GW-05-06
CONTAINERS AND PRESERVATIVES: See chain of custody
COMMENTS AND OBSERVATIONS: sampled with duplicate

RECOMMENDATIONS: —

CERTIFICATION

SIGNATURE: ____ DATE: ____

Eco•Systems, Inc.

K.S. 01/3 7 23:00 C:\ACADWIN\OS\ASIZE1

ESI

APPENDIX B

ANALYTICAL DATA SHEETS

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04015B1Z21B

Description: Water Method Blank

Project No.: 202522

Method: Water GC/MS Volatile Organics

Batch: 04015

Units: ug/l

Prep Factor: 1

Leached:

Prepared:

Analyzed: 21-Jul-00 13:20 KCB

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
75-09-2	Methylene chloride (Dichloromethane	1	ND	J	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 (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	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 reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

7/28/00 07:52:17

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04015BM26

Description: Water Method Blank

Project No.: 202522

Method: Water GC/MS Volatile Organics

Batch: 04015

Units: ug/l

Prep Factor: 1

Leached:

Prepared:

Analyzed: 26-Jul-00 11:23 KCB

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	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 dibromi	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 dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	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 alco	1	ND		500.
126-98-7	Methacrylonitrile	1	ND		5.00

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.

7 28 00 07:52:17

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Method Blank

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04015BM26

Description: Water Method Blank

Project No.: 202522

Method: Water GC/MS Volatile Organics

Batch: 04015

Units: ug/l

Prep Factor: 1

Leached:

Prepared:

Analyzed: 26-Jul-00 11:23 KCB

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
75-09-2	Methylene chloride (Dichloromethane	1	ND	J	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 (Perchloroethylen	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chlor	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 reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

7/28 00 07:52:18

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Report of Quality Control

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

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 202522

Method: Water GC/MS Semivolatile Organics **Batch:** 04045 **Units:** ug/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	50.00	68			50.00	62	69	10	10	36 - 109	31 - 107	25	
Acenaphthylene	50.00	68			50.00	64	68	6	6	37 - 107	29 - 106	25	
Aniline (Benzeneamine)	50.00	68			50.00	66	76	14	14	50 - 150	50 - 150	25	
Anthracene	50.00	78			50.00	68	73	7	7	40 - 112	35 - 107	25	
Benzoic acid	50.00	17			50.00	89	100	12	12	1 - 142	1 - 162	25	
Benzo(a)anthracene	50.00	81			50.00	69	78	11	11	39 - 116	30 - 114	25	
Benzo(b)fluoranthene	50.00	78			50.00	69	84	19	19	33 - 127	29 - 118	25	
Benzo(k)fluoranthene	50.00	78			50.00	66	69	3	3	25 - 131	26 - 113	25	
Benzo(g,h,i)perylene	50.00	79			50.00	68	76	11	11	32 - 121	23 - 113	25	
Benzo(a)pyrene	50.00	76			50.00	66	75	14	14	40 - 114	31 - 110	25	
Benzyl alcohol	50.00	60			50.00	60	69	13	13	21 - 117	11 - 122	25	
4-Bromophenyl-phenylether	50.00	74			50.00	68	73	7	7	43 - 113	36 - 112	25	
Butylbenzylphthalate	50.00	85			50.00	72	83	13	13	37 - 121	26 - 125	25	
4-Chloroaniline (p-Chloroaniline)	50.00	69			50.00	66	74	12	12	8 - 107	1 - 100	25	
bis(2-Chloroethoxy)methane	50.00	59			50.00	61	67	8	8	33 - 110	22 - 117	25	
bis(2-Chloroethyl) ether	50.00	52			50.00	50	56	12	12	26 - 112	11 - 118	25	
2,2'-oxybis(1-Chloropropane)	50.00	54			50.00	54	61	11	11	15 - 119	1 - 127	25	
4-Chloro-3-methylphenol (p-Chloro-m	50.00	67			50.00	68	77	12	12	34 - 110	17 - 123	25	
2-Chloronaphthalene	50.00	62			50.00	59	64	9	9	37 - 105	31 - 106	25	
2-Chlorophenol (o-Chlorophenol)	50.00	51			50.00	50	57	12	12	28 - 106	22 - 107	25	
4-Chlorophenyl phenyl ether	50.00	68			50.00	62	69	11	11	41 - 109	35 - 107	25	
Chrysene	50.00	78			50.00	68	75	10	10	38 - 113	29 - 111	25	
Dibenz(a,h)anthracene	50.00	84			50.00	72	80	11	11	35 - 120	29 - 112	25	
Dibenzofuran	50.00	67			50.00	61	67	9	9	39 - 110	36 - 104	25	
Di-n-butylphthalate	50.00	81			50.00	70	79	11	11	41 - 116	31 - 115	25	
1,2-Dichlorobenzene (o-Dichlorobenze	50.00	46			50.00	46	53	13	13	11 - 91	8 - 90	25	
1,3-Dichlorobenzene (m-Dichlorobenz	50.00	45			50.00	45	52	15	15	7 - 91	4 - 89	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50.00	44			50.00	44	52	15	15	11 - 87	7 - 86	25	
3,3'-Dichlorobenzidine	50.00	70			50.00	32	31	5	5	1 - 116	1 - 94	25	
2,4-Dichlorophenol	50.00	62			50.00	64	71	10	10	34 - 114	21 - 124	25	
Diethylphthalate	50.00	75			50.00	66	73	9	9	40 - 115	31 - 116	25	
2,4-Dimethylphenol	50.00	53			50.00	52	56	8	8	1 - 110	1 - 129	25	
Dimethylphthalate	50.00	73			50.00	66	74	11	11	42 - 112	33 - 115	25	
4,6-Dinitro-2-methylphenol (4,6-Dinitr	50.00	80			50.00	76	83	8	8	21 - 154	8 - 161	25	
2,4-Dinitrophenol	50.00	60			50.00	72	82	14	14	1 - 174	1 - 190	25	
2,4-Dinitrotoluene	50.00	74			50.00	65	73	12	12	39 - 118	31 - 118	25	
2,6-Dinitrotoluene	50.00	75			50.00	66	75	12	12	40 - 117	34 - 116	25	
Di-n-octylphthalate	50.00	83			50.00	72	83	14	14	28 - 132	24 - 126	25	
bis(2-Ethylhexyl)phthalate	50.00	95			50.00	83	97	16	16	23 - 146	13 - 141	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

7/28/00 07:52:14

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

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

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 202522

Method: Water GC/MS Semivolatile Organics **Batch:** 04045 **Units:** ug/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Fluoranthene	50.00	82			50.00	72	79	9	9	41 - 112	32 - 110	25	
Fluorene	50.00	71			50.00	64	72	11	11	40 - 108	33 - 107	25	
Hexachlorobenzene	50.00	73			50.00	66	72	8	8	43 - 114	35 - 113	25	
Hexachlorobutadiene	50.00	52			50.00	52	57	9	9	15 - 102	13 - 99	25	
Hexachlorocyclopentadiene	50.00	0			50.00	26	32	19	19	1 - 73	1 - 79	25	
Hexachloroethane	50.00	46			50.00	45	49	8	8	7 - 92	1 - 94	25	
Indeno(1,2,3-cd)pyrene	50.00	87			50.00	74	84	12	12	35 - 117	27 - 110	25	
Isophorone	50.00	67			50.00	66	74	11	11	40 - 110	18 - 130	25	
2-Methylnaphthalene	50.00	60			50.00	62	73	16	16	32 - 109	28 - 107	25	
2-Methylphenol (o-Cresol)	50.00	57			50.00	57	63	11	11	22 - 109	21 - 110	25	
3-Methylphenol (m-Cresol)	50.00	56			50.00	56	63	11	11	50 - 150	50 - 150	25	
4-Methylphenol (p-Cresol)	50.00	56			50.00	56	63	11	11	21 - 109	15 - 112	25	
Naphthalene	50.00	56			50.00	57	66	15	15	27 - 101	21 - 103	25	
2-Nitroaniline (o-Nitroaniline)	50.00	71			50.00	61	68	10	10	33 - 119	25 - 122	25	
3-Nitroaniline (m-Nitroaniline)	50.00	75			50.00	64	71	12	12	30 - 114	12 - 111	25	
4-Nitroaniline (p-Nitroaniline)	50.00	72			50.00	56	61	9	9	34 - 111	19 - 108	25	
Nitrobenzene	50.00	59			50.00	62	74	17	17	24 - 119	6 - 136	25	
2-Nitrophenol (o-Nitrophenol)	50.00	61			50.00	63	72	13	13	30 - 118	15 - 132	25	
4-Nitrophenol (p-Nitrophenol)	50.00	80			50.00	71	81	13	13	23 - 129	7 - 159	25	
N-Nitrosodimethylamine	50.00	33			50.00	35	42	17	17	13 - 110	1 - 121	25	
N-Nitrosodiphenylamine (Diphenylam	50.00	71			50.00	38	32	16	16	37 - 109	20 - 112	25	
N-Nitroso-di-n-propylamine	50.00	62			50.00	59	65	10	10	32 - 107	18 - 114	25	
Pentachlorophenol	50.00	78			50.00	73	85	13	13	32 - 122	26 - 134	25	
Phenanthrene	50.00	76			50.00	69	74	7	7	42 - 112	36 - 109	25	
Phenol	50.00	53			50.00	54	60	12	12	24 - 109	19 - 113	25	
Pyrene	50.00	81			50.00	69	79	14	14	38 - 117	26 - 119	25	
1,2,4-Trichlorobenzene	50.00	53			50.00	40	57	18	18	25 - 98	18 - 101	25	
2,4,5-Trichlorophenol	50.00	69			50.00	68	73	7	7	32 - 120	29 - 121	25	
2,4,6-Trichlorophenol	50.00	73			50.00	65	73	11	11	37 - 115	19 - 135	25	

68 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

7/28/00 07:52:15

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Report of Batch Surrogate Recovery

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Saint Rose, LA 70087

Phone: 504.469.0333
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Method: Water GC/MS Semivolatile Organics

Report: 202522

Batch: 04045

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
04045B1	BLANK	78	69	80	69	67	71		
04045B2	BLANK	65	66	74	56	50	72		
04045S1	LCS	62	63	83	50	41	70		
2020874		68	66	71	59	55	67		
2020875		37	52	59	28	23	52		
2020876		62	64	66	50	48	62		
2020877		65	66	69	53	47	64		
2020878MS	MS	63	60	69	50	42	62		
2020879MSD	MSD	71	64	79	57	50	69		
2020880		56	61	70	51	44	66		
2021545		54	58	62	47	39	63		
QC limits:		**21-120**	**26-106**	**33-141**	**19-113**	**11-103**	**25-136**		

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.

7/28/00 07:52:16

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Report of Method Blank

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04045B1

Description: Water Method Blank

Project No.: 202522

Method: Water GC/MS Semivolatile Organics

Batch: 04045

Units: ug/l

Prep Factor: 1

Leached:

Prepared: 17-Jul-00

Analyzed: 19-Jul-00 10:22 AKE

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-phenylether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dino	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	2,2'-oxybis(1-Chloropropane)	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m	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-Dichlorobenz	1	ND		10.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenz	1	ND		10.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenz	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

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.

7/28/00 07:52:18

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04045B1

Description: Water Method Blank **Project No.:** 202522

Method: Water GC/MS Semivolatile Organics **Batch:** 04045 **Units:** ug/l

Prep Factor: 1 **Leached:** **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 10:22 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
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- Dimethylphenethylamin	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-Dinitrobenzen	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	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	J	10.0
97-63-2	Ethyl methacrylate (2-Propenoic aci	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

ND denotes Not Detected at or above the reporting limit.
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Laboratory Certifications:
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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04045B1

Description: Water Method Blank **Project No.:** 202522

Method: Water GC/MS Semivolatile Organics **Batch:** 04045 **Units:** ug/l

Prep Factor: 1 **Leached:** **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 10:22 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
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
56-57-5	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 (Diphenylami	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

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.

7 28 00 07:52:19

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Lab ID: 04045B1

Description: Water Method Blank

Project No.: 202522

Method: Water GC/MS Semivolatile Organics

Batch: 04045

Units: ug/l

Prep Factor: 1

Leached:

Prepared: 17-Jul-00

Analyzed: 19-Jul-00 10:22 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
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-Trinitro	1	ND		10.0

111 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.

7/28 00 07:52:19

Laboratory Certifications:
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Project No.: 202522

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Antimony	04054	ND	60.0	ug/l	1500.00	82			750.00	92	89	3		80 - 117	46 - 133	20	
Arsenic	04054	ND	10.0	ug/l	1500.00	90			3000.00	96	93	2		74 - 120	62 - 129	20	
Barium	04054	ND	200.	ug/l	1500.00	85			3000.00	91	89	2		72 - 125	51 - 131	20	
Cadmium	04054	ND	5.00	ug/l	1500.00	88			75.00	95	93	2		82 - 113	48 - 129	20	
Chromium	04054	ND	10.0	ug/l	1500.00	91			300.00	139	64	2		75 - 124	53 - 135	20	Q3
Cobalt	04054	ND	50.0	ug/l	1500.00	88			750.00	95	92	3		71 - 126	67 - 115	20	
Copper	04054	ND	25.0	ug/l	1500.00	171			375.00	94	94	0		81 - 120	64 - 129	20	Q4
Lead	04054	3.00	3.00	ug/l	1500.00	85			750.00	90	88	2		76 - 122	54 - 127	20	
Selenium	04054	ND	5.00	ug/l	1500.00	83			3000.00	85	83	3		71 - 117	47 - 133	20	
Silver	04054	ND	10.0	ug/l	750.00	83			75.00	92	88	5		69 - 120	17 - 148	20	
Vanadium	04054	ND	50.0	ug/l	1500.00	85			750.00	99	97	3		73 - 125	73 - 117	20	
Zinc	04054	ND	20.0	ug/l	1500.00	102			750.00	92	90	3		81 - 120	51 - 135	20	
Mercury	04125	ND	0.200	ug/l	1.00	105			1.00	99	98	1	1	80 - 120	75 - 125	20	

#Error
ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

7/28 00 07:52:21

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Project No.: 202522

Analyte Qualifiers

Qualifier	Qualifier Description
A5	The result for benzidine was based on a single point calibration and manual search.
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.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit. (Organics Only)
E	The sample concentration is above the linear calibrated range of the analysis.

General Qualifiers

Qualifier	Qualifier Description
DI	The analysis was performed at a dilution due to the high analyte concentration.

QC Qualifiers

Qualifier	Qualifier Description
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.

Sample Qualifiers

Qualifier	Qualifier Description
D6	The sample was analyzed at a dilution based upon the screening information.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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CHAIN-OF-CUSTODY / Analytical Request Document

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

529582

Page: 1 of 1

Required Client Information: **Section A**

Company: Eco-Systems, Inc.
Address: 439 Katherine Dr. Suite 2A Jackson, MS 39208
Phone: (601) 936-4440 Fax: (601) 936-4463

Required Client Information: **Section B**

Report To: Wade Steinriede
Invoice To: Same
P.O.:
Project Name: Textron S-2, 2000
Project Number:

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

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar 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: VOC (8260), SVOC (8270), Metals - Appx. IX

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	VOC (8260)	SVOC (8270)	Metals - Appx. IX	Remarks / Lab ID
1	TAC-SWMU2-GW-05-06		7/12/00	812	6	2		1	3			X	X	X	
2	TAC-SWMU2-GW-05-06D		"	812	6	2		1	3						Duplicate
3	TAC-SWMU2-GW-01-06			913	6	2		1	3						
4	TAC-SWMU2-GW-02-06			1018	18	6		3	9						w/ MS/MSD
5	TAC-SWMU2-TB-06			1043	3				3						
6	TAC-SWMU2-GW-04-06			1110	5	1		1	3						
7															
8															
9															
10															
11															
12															

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	1°5			WS / EST	7/12	1800			
Received on ICE:	Y / N			Fed Ex	7/13/00	0950	Rhona Hardy / Pace	7/13/00	0950
Sealed Cooler:	Y / N								
Samples Intact:	Y / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wade Steinriede
SIGNATURE of SAMPLER: WS
DATE Signed: 7/12/00 (MM / DD / YY)

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-04-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020880
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 16:01 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	ND	
110-86-1	Pyridine	1		10.0	ND	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	ND	
95-95-4	2,4,5-Trichlorophenol	1		25.0	ND	
88-06-2	2,4,6-Trichlorophenol	1		10.0	ND	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

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.

7/28/00 07:52:09

Laboratory Certifications:
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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-TB-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020881
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 21-Jul-00 20:38 KCB

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

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7/28/00 07:52:09

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New Orleans Laboratory

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-TB-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020881
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 21-Jul-00 20:38 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	1		5.00	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	1		500.	ND	
126-98-7	Methacrylonitrile	1		5.00	ND	
75-09-2	Methylene chloride (Dichloromethane	1	A11	5.00	1.20 J	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		10.0	ND	
107-12-0	Propionitrile (Ethyl cyanide)	1		10.0	ND	
100-42-4	Styrene	1		5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	1		5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1		5.00	ND	
127-18-4	Tetrachloroethene (Perchloroethylen	1		5.00	ND	
108-88-3	Toluene	1		5.00	ND	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1		5.00	ND	
79-00-5	1,1,2-Trichloroethane	1		5.00	ND	
79-01-6	Trichloroethene (Trichloroethylene)	1		5.00	ND	
75-69-4	Trichlorofluoromethane (Freon 11)	1		5.00	ND	
96-18-4	1,2,3-Trichloropropane	1		5.00	ND	
108-05-4	Vinyl acetate	1		10.0	ND	
75-01-4	Vinyl chloride (Chloroethene)	1		10.0	ND	
1330-20-7	Xylene (total)	1		5.00	ND	

52 compound(s) reported

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New Orleans Laboratory

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

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-05-06
Project: Textron S-2,2000
Lab ID: 2020874
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:53	KJR
Barium	SW 6010	04054	1		ND		ug/l	200.	19-Jul-00	19-Jul-00 16:53	KJR
Cadmium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 16:53	KJR
Chromium	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:53	KJR
Lead	SW 6010	04054	1		ND		ug/l	3.00	19-Jul-00	19-Jul-00 16:53	KJR
Mercury	SW 7470	04125	1		ND		ug/l	0.200	20-Jul-00	20-Jul-00 12:59	KJR
Selenium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 16:53	KJR
Silver	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:53	KJR

8 parameter(s) reported

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7/28/00 07:52:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
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Kansas Dept. of Health & Environment/ELWHW - E-10266
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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-05-06D
Project: Textron S-2,2000
Lab ID: 2020875
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:57	KJR
Barium	SW 6010	04054	1		ND		ug/l	200.	19-Jul-00	19-Jul-00 16:57	KJR
Cadmium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 16:57	KJR
Chromium	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:57	KJR
Lead	SW 6010	04054	1		ND		ug/l	3.00	19-Jul-00	19-Jul-00 16:57	KJR
Mercury	SW 7470	04125	1		ND		ug/l	0.200	20-Jul-00	20-Jul-00 13:01	KJR
Selenium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 16:57	KJR
Silver	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:57	KJR

8 parameter(s) reported

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7/28/00 07:52:11

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-01-06
Project: Textron S-2,2000
Lab ID: 2020876
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 17:02	KJR
Barium	SW 6010	04054	1		ND		ug/l	200.	19-Jul-00	19-Jul-00 17:02	KJR
Cadmium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 17:02	KJR
Chromium	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 17:02	KJR
Lead	SW 6010	04054	1		ND		ug/l	3.00	19-Jul-00	19-Jul-00 17:02	KJR
Mercury	SW 7470	04125	1		ND		ug/l	0.200	20-Jul-00	20-Jul-00 13:03	KJR
Selenium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 17:02	KJR
Silver	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 17:02	KJR

8 parameter(s) reported

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7/28/00 07:52:12

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Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-02-06
Project: Textron S-2,2000
Lab ID: 2020877
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:33	KJR
Barium	SW 6010	04054	1		ND		ug/l	200.	19-Jul-00	19-Jul-00 16:33	KJR
Cadmium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 16:33	KJR
Chromium	SW 6010	04054	1		10800		ug/l	10.0	19-Jul-00	19-Jul-00 16:33	KJR
Lead	SW 6010	04054	1		7.30		ug/l	3.00	19-Jul-00	19-Jul-00 16:33	KJR
Mercury	SW 7470	04125	1		ND		ug/l	0.200	20-Jul-00	20-Jul-00 12:49	KJR
Selenium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 16:33	KJR
Silver	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 16:33	KJR

8 parameter(s) reported

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7-28-00 07:52:12

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-02-06MS
Project: Textron S-2,2000
Lab ID: 2020878S
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		2870		ug/l	10.0	19-Jul-00	19-Jul-00 16:38	KJR
Barium	SW 6010	04054	1		2810		ug/l	200.	19-Jul-00	19-Jul-00 16:38	KJR
Cadmium	SW 6010	04054	1		71.2		ug/l	5.00	19-Jul-00	19-Jul-00 16:38	KJR
Chromium	SW 6010	04054	1		11200		ug/l	10.0	19-Jul-00	19-Jul-00 16:38	KJR
Lead	SW 6010	04054	1		683.		ug/l	3.00	19-Jul-00	19-Jul-00 16:38	KJR
Mercury	SW 7470	04125	1		0.990		ug/l	0.200	20-Jul-00	20-Jul-00 12:55	KJR
Selenium	SW 6010	04054	1		2570		ug/l	5.00	19-Jul-00	19-Jul-00 16:38	KJR
Silver	SW 6010	04054	1		68.9		ug/l	10.0	19-Jul-00	19-Jul-00 16:38	KJR

8 parameter(s) reported

denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which 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.

7-28-00 07:52:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
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U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

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New Orleans Laboratory

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

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-02-06MSD
Project: Textron S-2,2000
Lab ID: 2020879SD
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		2800		ug/l	10.0	19-Jul-00	19-Jul-00 16:43	KJR
Barium	SW 6010	04054	1		2740		ug/l	200.	19-Jul-00	19-Jul-00 16:43	KJR
Cadmium	SW 6010	04054	1		69.9		ug/l	5.00	19-Jul-00	19-Jul-00 16:43	KJR
Chromium	SW 6010	04054	1		11000		ug/l	10.0	19-Jul-00	19-Jul-00 16:43	KJR
Lead	SW 6010	04054	1		668.		ug/l	3.00	19-Jul-00	19-Jul-00 16:43	KJR
Mercury	SW 7470	04125	1		0.980		ug/l	0.200	20-Jul-00	20-Jul-00 12:57	KJR
Selenium	SW 6010	04054	1		2490		ug/l	5.00	19-Jul-00	19-Jul-00 16:43	KJR
Silver	SW 6010	04054	1		65.7		ug/l	10.0	19-Jul-00	19-Jul-00 16:43	KJR

8 parameter(s) reported

enotes Not Detected at or above the adjusted reporting limit.
-denotes Dilution Factor of final sample. PF denotes sample Prep Factor which 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.

7/28/00 07:52:12

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-04-06
Project: Textron S-2,2000
Lab ID: 2020880
Description: None

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Matrix: Water **%Moisture:** n/a
Collected: 7/12/00 **Received:** 7/13/00

ParameterName	Method	Batch	DF	Reg. Limit	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
Arsenic	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 17:07	KJR
Barium	SW 6010	04054	1		ND		ug/l	200.	19-Jul-00	19-Jul-00 17:07	KJR
Cadmium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 17:07	KJR
Chromium	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 17:07	KJR
Lead	SW 6010	04054	1		ND		ug/l	3.00	19-Jul-00	19-Jul-00 17:07	KJR
Mercury	SW 7470	04125	1		ND		ug/l	0.200	20-Jul-00	20-Jul-00 13:05	KJR
Selenium	SW 6010	04054	1		ND		ug/l	5.00	19-Jul-00	19-Jul-00 17:07	KJR
Silver	SW 6010	04054	1		ND		ug/l	10.0	19-Jul-00	19-Jul-00 17:07	KJR

8 parameter(s) reported

denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which 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.

7/28/00 07:52:13

Laboratory Certifications:
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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 those 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 aliquots 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.

s:\cs\word\qcdef.doc

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Report of Quality Control

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

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 202522

Method: Water GC/MS Volatile Organics **Batch:** 04015 **Units:** ug/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone (2-Propanone, Dimethyl keto	50.00	56			2500.00	84	85	0	0	7 - 173	1 - 183	25	
Benzene	50.00	100			2500.00	118	119	0	0	70 - 131	49 - 152	25	
Bromodichloromethane	50.00	102			2500.00	110	110	1	1	65 - 139	66 - 145	25	
Bromoform	50.00	108			2500.00	84	86	3	3	55 - 144	50 - 150	25	
Bromomethane (Methyl bromide)	50.00	122			2500.00	124	123	1	1	42 - 157	37 - 168	25	
2-Butanone (Methyl ethyl ketone)	50.00	86			2500.00	87	86	1	1	18 - 175	7 - 189	25	
Carbon disulfide	50.00	118			2500.00	133	131	2	2	52 - 133	43 - 152	25	
Carbon tetrachloride	50.00	111			2500.00	120	124	4	4	61 - 149	57 - 166	25	
Chlorobenzene	50.00	95			2500.00	96	95	1	1	71 - 126	71 - 133	25	
Chloroethane	50.00	118			2500.00	109	103	6	6	35 - 168	32 - 181	25	
Chloroform	50.00	100			2500.00	106	108	2	2	73 - 133	70 - 141	25	
Chloromethane (Methyl chloride)	50.00	116			2500.00	130	130	0	0	1 - 174	1 - 188	25	
Dibromochloromethane	50.00	97			2500.00	93	96	3	3	65 - 138	63 - 143	25	
1,1-Dichloroethane	50.00	101			2500.00	112	111	1	1	68 - 132	67 - 141	25	
1,2-Dichloroethane (Ethylene dichlori	50.00	97			2500.00	118	119	1	1	59 - 152	56 - 159	25	
1,1-Dichloroethene (Dichloroethylene)	50.00	100			2500.00	115	118	2	2	56 - 146	48 - 163	25	
trans-1,2-Dichloroethene	50.00	104			2500.00	116	119	2	2	50 - 150	50 - 150	25	
1,2-Dichloropropane	50.00	104			2500.00	113	115	1	1	71 - 129	72 - 136	25	
cis-1,3-Dichloropropene	50.00	99			2500.00	112	113	1	1	64 - 133	64 - 138	25	
trans-1,3-Dichloropropene	50.00	80			2500.00	109	112	3	3	58 - 140	55 - 147	25	
Ethylbenzene	50.00	87			2500.00	93	86	8	8	62 - 131	66 - 135	25	
m-p-Xylene	100.00	95			5000.00	98	99	1	1	50 - 150	50 - 150	25	
2-Hexanone	50.00	83			2500.00	96	100	4	4	29 - 167	12 - 193	25	
o-Xylene	50.00	95			2500.00	97	96	2	2	50 - 150	50 - 150	25	
Methylene chloride (Dichloromethane)	50.00	84			2500.00	95	93	2	2	5 - 175	1 - 155	25	
4-Methyl-2-pentanone (MIBK)	50.00	77			2500.00	97	93	5	5	30 - 162	1 - 155	25	
Styrene	50.00	93			2500.00	94	95	1	1	68 - 129	63 - 137	25	
1,1,2,2-Tetrachloroethane	50.00	89			2500.00	94	94	0	0	51 - 151	42 - 166	25	
Tetrachloroethene (Perchloroethylene)	50.00	90			2500.00	88	89	0	0	64 - 131	63 - 139	25	
Toluene	50.00	109			2500.00	116	116	1	1	70 - 130	72 - 135	25	
1,1,1-Trichloroethane (Methyl chlorof	50.00	102			2500.00	111	114	2	2	74 - 133	72 - 142	25	
1,1,2-Trichloroethane	50.00	99			2500.00	110	116	5	5	66 - 138	62 - 145	25	
Trichloroethene (Trichloroethylene)	50.00	82			2500.00	80	72	1	1	71 - 129	71 - 136	25	
Trichlorofluoromethane (Freon 11)	50.00	133			2500.00	128	128	0	0	75 - 137	74 - 143	25	
Vinyl chloride (Chloroethene)	50.00	131			2500.00	144	143	1	1	20 - 173	12 - 192	25	
Xylene (total)	150.00	95			7500.00	98	98	0	0	65 - 134	67 - 137	25	

36 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

7/28/00 07:52:14

Laboratory Certifications:
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Report of Batch Surrogate Recovery

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Report: 202522

Batch: 04015

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
04015B1Z21B	BLANK	113	101	106					
04015BM26	BLANK	98	89	82					
04015SZ21	LCS	109	98	102					
2020874		100	91	87					
2020874DL	DUP	97	88	88					
2020875		101	91	80					
2020875DL	DUP	98	87	90					
2020876		110	99	102					
2020877		98	89	90					
2020877DL	DUP	97	90	88					
2020878MS	MS	98	89	84					
2020879MSD	MSD	99	87	86					
2020880		98	94	86					
2020880DL	DUP	99	87	87					
2020881		110	99	101					
QC limits:		**81-113**	**77-123**	**75-118**					

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

*notes surrogate recovery outside of QC limits.
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.

7 28 00 07:52 16

Laboratory Certifications:
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Report of Method Blank

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 04015B1Z21B

Description: Water Method Blank

Project No.: 202522

Method: Water GC/MS Volatile Organics

Batch: 04015

Units: ug/l

Prep Factor: 1

Leached:

Prepared:

Analyzed: 21-Jul-00 13:20 KCB

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	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 dibromi	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 dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	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 alco	1	ND		500.
126-98-7	Methacrylonitrile	1	ND		5.00

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.

7/28/00 07:52:17

Laboratory Certifications:
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Report of Laboratory Analysis

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06

Site: None

Project: Textron S-2,2000

Project No.: 202522 **Sample Qu:**

Lab ID: 2020877

Matrix: Water **% Moisture:** n/a

Description: None

Prep Level: Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics

Units: ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

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

Prepared: 17-Jul-00 **Analyzed:** 19-Jul-00 13:11 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	ND	
110-86-1	Pyridine	1		10.0	ND	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	23.8	
95-95-4	2,4,5-Trichlorophenol	1		25.0	ND	
88-06-2	2,4,6-Trichlorophenol	1		10.0	ND	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

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.

7/28/00 07:52:03

Laboratory Certifications:
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Report of Laboratory Analysis

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MS
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020878MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 24-Jul-00 20:40 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	50	D6	500.	2110	
75-05-8	Acetonitrile (Methyl cyanide)	50	D6	2500	ND	
107-02-8	Acrolein (2-Propenal)	50	D6	500.	ND	
107-13-1	Acrylonitrile (2-Propenenitrile)	50	D6	500.	ND	
107-05-1	Allyl chloride (3-Chloropropene)	50	D6	250.	ND	
71-43-2	Benzene	50	D6	250.	2960	
75-27-4	Bromodichloromethane	50	D6	250.	2740	
75-25-2	Bromoform	50	D6	250.	2100	
74-83-9	Bromomethane (Methyl bromide)	50	D6	500.	3100	
78-93-3	2-Butanone (Methyl ethyl ketone)	50	D6	500.	2180	
75-15-0	Carbon disulfide	50	D6	250.	3330	
56-23-5	Carbon tetrachloride	50	D6	250.	2990	
108-90-7	Chlorobenzene	50	D6	250.	2400	
75-00-3	Chloroethane	50	D6	500.	2730	
67-66-3	Chloroform	50	D6	250.	2650	
74-87-3	Chloromethane (Methyl chloride)	50	D6	500.	3250	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	50	D6	2500	ND	
124-48-1	Dibromochloromethane	50	D6	250.	2330	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	50	D6	250.	ND	
106-93-4	1,2-Dibromoethane (Ethylene dibromi	50	D6	250.	ND	
74-95-3	Dibromomethane (Methylene bromide)	50	D6	250.	ND	
110-57-6	trans-1,4-Dichloro-2-butene	50	D6	250.	ND	
75-71-8	Dichlorodifluoromethane (Freon 12)	50	D6	2500	ND	
75-34-3	1,1-Dichloroethane	50	D6	250.	2810	
107-06-2	1,2-Dichloroethane (Ethylene dichlo	50	D6	250.	2950	
75-35-4	1,1-Dichloroethene (Dichloroethylen	50	D6	250.	2920	
156-60-5	trans-1,2-Dichloroethene	50	D6	250.	2910	
78-87-5	1,2-Dichloropropane	50	D6	250.	2830	
10061-01-5	cis-1,3-Dichloropropene	50	D6	250.	2790	
10061-02-6	trans-1,3-Dichloropropene	50	D6	250.	2730	
123-91-1	1,4-Dioxane	50	D6	25000	ND	
100-41-4	Ethylbenzene	50	D6	250.	2330	
591-78-6	2-Hexanone	50	D6	500.	2410	

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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.

7/28/00 07:52:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MS
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020878MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 24-Jul-00 20:40 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	50	D6	250.	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	50	D6	25000	ND	
126-98-7	Methacrylonitrile	50	D6	250.	ND	
75-09-2	Methylene chloride (Dichloromethane	50	D6	250.	2440	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	D6	500.	2430	
107-12-0	Propionitrile (Ethyl cyanide)	50	D6	500.	ND	
100-42-4	Styrene	50	D6	250.	2350	
630-20-6	1,1,1,2-Tetrachloroethane	50	D6	250.	ND	
79-34-5	1,1,2,2-Tetrachloroethane	50	D6	250.	2360	
127-18-4	Tetrachloroethene (Perchloroethylen	50	D6	250.	2210	
108-88-3	Toluene	50	D6	250.	2910	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	50	D6	250.	2780	
79-00-5	1,1,2-Trichloroethane	50	D6	250.	2740	
79-01-6	Trichloroethene (Trichloroethylene)	50	E D6	250.	14000	
75-69-4	Trichlorofluoromethane (Freon 11)	50	D6	250.	3200	
96-18-4	1,2,3-Trichloropropane	50	D6	250.	ND	
108-05-4	Vinyl acetate	50	D6	500.	ND	
75-01-4	Vinyl chloride (Chloroethene)	50	D6	500.	3880	
1330-20-7	Xylene (total)	50	D6	250.	7350	

52 compound(s) reported

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7/28/00 07:52:03

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MS

Site: None

Project: Textron S-2,2000

Project No.: 202522 Sample Qu:

Lab ID: 2020878MS

Matrix: Water % Moisture: n/a

Description: None

Prep Level: Water Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics

Units: ug/l Target List: 8270AP9WAT

Collected: 12-Jul-00 Received: 13-Jul-00

Prep Factor: 1 Leached: n/a

Prepared: 17-Jul-00 Analyzed: 19-Jul-00 11:47 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
83-32-9	Acenaphthene	1		10.0	31.1	
208-96-8	Acenaphthylene	1		10.0	31.8	
98-86-2	Acetophenone	1		10.0	ND	
53-96-3	2-Acetylaminofluorene	1		10.0	ND	
92-67-1	4-Aminobiphenyl	1		10.0	ND	
62-53-3	Aniline (Benzeneamine)	1		10.0	32.8	
120-12-7	Anthracene	1		10.0	34.2	
140-57-8	Aramite	1		10.0	ND	
56-55-3	Benzo(a)anthracene	1		10.0	34.7	
205-99-2	Benzo(b)fluoranthene	1		10.0	34.7	
207-08-09	Benzo(k)fluoranthene	1		10.0	33.2	
191-24-2	Benzo(g,h,i)perylene	1		10.0	34.1	
50-32-8	Benzo(a)pyrene	1		10.0	32.8	
100-51-6	Benzyl alcohol	1		10.0	30.0	
101-55-3	4-Bromophenyl-phenylether	1		10.0	33.9	
85-68-7	Butylbenzylphthalate	1		10.0	36.2	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dino	1		10.0	ND	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1		10.0	33.0	
111-91-1	bis(2-Chloroethoxy)methane	1		10.0	30.6	
111-44-4	bis(2-Chloroethyl) ether	1		10.0	24.8	
108-60-1	2,2'-oxybis(1-Chloropropane)	1		10.0	27.2	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m	1		10.0	34.1	
91-58-7	2-Chloronaphthalene	1		10.0	29.3	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1		10.0	25.2	
7005-72-3	4-Chlorophenyl phenyl ether	1		10.0	30.9	
218-01-9	Chrysene	1		10.0	34.0	
53-70-3	Dibenz(a,h)anthracene	1		10.0	36.0	
132-64-9	Dibenzofuran	1		10.0	30.6	
84-74-2	Di-n-butylphthalate	1		10.0	35.2	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenz	1		10.0	23.2	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenz	1		10.0	22.6	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenz	1		10.0	22.1	
91-94-1	3,3'-Dichlorobenzidine	1		20.0	16.2 J	

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7/28/00 07:52:04

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MS
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020878MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 11:47 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	32.0	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	33.1	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	26.0	
131-11-3	Dimethylphthalate	1		10.0	32.8	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	38.0	
51-28-5	2,4-Dinitrophenol	1		25.0	35.8	
121-14-2	2,4-Dinitrotoluene	1		10.0	32.7	
606-20-2	2,6-Dinitrotoluene	1		10.0	33.0	
117-84-0	Di-n-octylphthalate	1		10.0	36.1	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	41.3	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	36.1	
86-73-7	Fluorene	1		10.0	32.2	
118-74-1	Hexachlorobenzene	1		10.0	33.1	
87-68-3	Hexachlorobutadiene	1		10.0	25.9	
77-47-4	Hexachlorocyclopentadiene	1		10.0	13.2	
67-72-1	Hexachloroethane	1		10.0	22.6	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	37.2	
78-59-1	Isophorone	1		10.0	33.2	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

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7 28 00 07:52:04

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MS
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020878MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 11:47 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	31.0	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	28.5	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	28.2	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	28.2	
91-20-3	Naphthalene	1		10.0	28.3	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	30.5	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	31.8	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	28.0	
98-95-3	Nitrobenzene	1		10.0	31.2	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	31.5	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	35.7	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	17.7	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	18.8	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	29.4	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	40.7	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	34.4	
108-95-2	Phenol	1		10.0	26.8	
106-50-3	p-Phenylenediamine	1		10.0	ND	

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7/28/00 07:52:05

Laboratory Certifications:
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Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MS
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020878MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 11:47 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	34.4	
110-86-1	Pyridine	1		10.0	19.5	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	43.8	
95-95-4	2,4,5-Trichlorophenol	1		25.0	33.8	
88-06-2	2,4,6-Trichlorophenol	1		10.0	32.7	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

111 compound(s) reported

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7/28/00 07:52:05

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MSD
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020879MSD
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04015

Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 24-Jul-00 21:08 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	50	D6	500.	2120	
75-05-8	Acetonitrile (Methyl cyanide)	50	D6	2500	ND	
107-02-8	Acrolein (2-Propenal)	50	D6	500.	ND	
107-13-1	Acrylonitrile (2-Propenenitrile)	50	D6	500.	ND	
107-05-1	Allyl chloride (3-Chloropropene)	50	D6	250.	ND	
71-43-2	Benzene	50	D6	250.	2970	
75-27-4	Bromodichloromethane	50	D6	250.	2760	
75-25-2	Bromoform	50	D6	250.	2160	
74-83-9	Bromomethane (Methyl bromide)	50	D6	500.	3080	
78-93-3	2-Butanone (Methyl ethyl ketone)	50	D6	500.	2150	
75-15-0	Carbon disulfide	50	D6	250.	3280	
56-23-5	Carbon tetrachloride	50	D6	250.	3110	
108-90-7	Chlorobenzene	50	D6	250.	2380	
75-00-3	Chloroethane	50	D6	500.	2580	
67-66-3	Chloroform	50	D6	250.	2710	
74-87-3	Chloromethane (Methyl chloride)	50	D6	500.	3250	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	50	D6	2500	ND	
124-48-1	Dibromochloromethane	50	D6	250.	2400	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	50	D6	250.	ND	
106-93-4	1,2-Dibromoethane (Ethylene dibromi	50	D6	250.	ND	
74-95-3	Dibromomethane (Methylene bromide)	50	D6	250.	ND	
110-57-6	trans-1,4-Dichloro-2-butene	50	D6	250.	ND	
75-71-8	Dichlorodifluoromethane (Freon 12)	50	D6	2500	ND	
75-34-3	1,1-Dichloroethane	50	D6	250.	2770	
107-06-2	1,2-Dichloroethane (Ethylene dichlo	50	D6	250.	2970	
75-35-4	1,1-Dichloroethene (Dichloroethylen	50	D6	250.	2980	
156-60-5	trans-1,2-Dichloroethene	50	D6	250.	2970	
78-87-5	1,2-Dichloropropane	50	D6	250.	2870	
10061-01-5	cis-1,3-Dichloropropene	50	D6	250.	2820	
10061-02-6	trans-1,3-Dichloropropene	50	D6	250.	2800	
123-91-1	1,4-Dioxane	50	D6	25000	ND	
100-41-4	Ethylbenzene	50	D6	250.	2160	
591-78-6	2-Hexanone	50	D6	500.	2510	

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7 28 00 07:52:05

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

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New Orleans Laboratory

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MSD
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020879MSD
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04015

Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 24-Jul-00 21:08 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	50	D6	250.	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	50	D6	25000	ND	
126-98-7	Methacrylonitrile	50	D6	250.	ND	
75-09-2	Methylene chloride (Dichloromethane	50	D6	250.	2390	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	D6	500.	2320	
107-12-0	Propionitrile (Ethyl cyanide)	50	D6	500.	ND	
100-42-4	Styrene	50	D6	250.	2370	
630-20-6	1,1,1,2-Tetrachloroethane	50	D6	250.	ND	
79-34-5	1,1,2,2-Tetrachloroethane	50	D6	250.	2350	
127-18-4	Tetrachloroethene (Perchloroethylen	50	D6	250.	2220	
108-88-3	Toluene	50	D6	250.	2890	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	50	D6	250.	2840	
79-00-5	1,1,2-Trichloroethane	50	D6	250.	2890	
79-01-6	Trichloroethene (Trichloroethylene)	50	E D6	250.	13800	
75-69-4	Trichlorofluoromethane (Freon 11)	50	D6	250.	3200	
96-18-4	1,2,3-Trichloropropane	50	D6	250.	ND	
108-05-4	Vinyl acetate	50	D6	500.	ND	
75-01-4	Vinyl chloride (Chloroethene)	50	D6	500.	3850	
1330-20-7	Xylene (total)	50	D6	250.	7360	

52 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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7 28 00 07:52:05

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Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MSD
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020879MSD
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 12:29 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
83-32-9	Acenaphthene	1		10.0	34.5	
208-96-8	Acenaphthylene	1		10.0	33.9	
98-86-2	Acetophenone	1		10.0	ND	
53-96-3	2-Acetylaminofluorene	1		10.0	ND	
92-67-1	4-Aminobiphenyl	1		10.0	ND	
62-53-3	Aniline (Benzeneamine)	1		10.0	37.9	
120-12-7	Anthracene	1		10.0	36.5	
140-57-8	Aramite	1		10.0	ND	
56-55-3	Benzo(a)anthracene	1		10.0	38.8	
205-99-2	Benzo(b)fluoranthene	1		10.0	42.0	
207-08-09	Benzo(k)fluoranthene	1		10.0	34.3	
191-24-2	Benzo(g,h,i)perylene	1		10.0	38.0	
50-32-8	Benzo(a)pyrene	1		10.0	37.7	
100-51-6	Benzyl alcohol	1		10.0	34.3	
101-55-3	4-Bromophenyl-phenylether	1		10.0	36.5	
85-68-7	Butylbenzylphthalate	1		10.0	41.3	
88-85-7	2-sec-Butyl-4-6-dinitrophenol (Dino	1		10.0	ND	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1		10.0	37.2	
111-91-1	bis(2-Chloroethoxy)methane	1		10.0	33.3	
111-44-4	bis(2-Chloroethyl) ether	1		10.0	28.1	
108-60-1	2,2'-oxybis(1-Chloropropane)	1		10.0	30.4	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m	1		10.0	38.6	
91-58-7	2-Chloronaphthalene	1		10.0	32.0	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1		10.0	28.5	
7005-72-3	4-Chlorophenyl phenyl ether	1		10.0	34.6	
218-01-9	Chrysene	1		10.0	37.7	
53-70-3	Dibenz(a,h)anthracene	1		10.0	40.2	
132-64-9	Dibenzofuran	1		10.0	33.5	
84-74-2	Di-n-butylphthalate	1		10.0	39.4	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenz	1		10.0	26.3	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenz	1		10.0	26.2	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenz	1		10.0	25.8	
91-94-1	3,3'-Dichlorobenzidine	1		20.0	15.4	J

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7/28/00 07:52:06

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Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MSD
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020879MSD
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 12:29 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	35.5	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	36.4	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	28.2	
131-11-3	Dimethylphthalate	1		10.0	36.8	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	41.3	
51-28-5	2,4-Dinitrophenol	1		25.0	41.0	
121-14-2	2,4-Dinitrotoluene	1		10.0	36.7	
606-20-2	2,6-Dinitrotoluene	1		10.0	37.3	
117-84-0	Di-n-octylphthalate	1		10.0	41.5	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	48.7	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	39.7	
86-73-7	Fluorene	1		10.0	36.0	
118-74-1	Hexachlorobenzene	1		10.0	35.9	
87-68-3	Hexachlorobutadiene	1		10.0	28.4	
77-47-4	Hexachlorocyclopentadiene	1		10.0	15.9	
67-72-1	Hexachloroethane	1		10.0	24.6	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	41.8	
78-59-1	Isophorone	1		10.0	37.1	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

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7/28/00 07:52:06

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MSD
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020879MSD
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 12:29 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	36.4	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	31.7	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	31.4	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	31.4	
91-20-3	Naphthalene	1		10.0	33.0	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	33.8	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	35.7	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	30.5	
98-95-3	Nitrobenzene	1		10.0	37.0	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	36.0	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	40.6	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	20.9	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	16.0	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	32.6	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	46.5	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	37.0	
108-95-2	Phenol	1		10.0	30.2	
106-50-3	p-Phenylenediamine	1		10.0	ND	

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7 28 00 07:52:06

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Phone: 504.469.0333
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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06MSD
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020879MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 12:29 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	39.6	
110-86-1	Pyridine	1		10.0	22.5	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	52.3	
95-95-4	2,4,5-Trichlorophenol	1		25.0	36.3	
88-06-2	2,4,6-Trichlorophenol	1		10.0	36.6	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

111 compound(s) reported

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7/28/00 07:52:07

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: TAC-SWMU2-GW-04-06
Project: Textron S-2,2000
Lab ID: 2020880
Description: None
Method: SW 8260 Appendix IX Volatile Organics

Client: ECO-SYSTEMS, INCORPORATED/MS
Site: None
Project No.: 202522
Sample Qu:
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 04015
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prepared:
Analyzed: 26-Jul-00 15:59 KCB

Prep Factor: 1
Leached: n/a

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1		10.0	ND	
75-05-8	Acetonitrile (Methyl cyanide)	1		50.0	ND	
107-02-8	Acrolein (2-Propenal)	1		10.0	ND	
107-13-1	Acrylonitrile (2-Propenenitrile)	1		10.0	ND	
107-05-1	Allyl chloride (3-Chloropropene)	1		5.00	ND	
71-43-2	Benzene	1		5.00	ND	
75-27-4	Bromodichloromethane	1		5.00	ND	
75-25-2	Bromoform	1		5.00	ND	
74-83-9	Bromomethane (Methyl bromide)	1		10.0	ND	
78-93-3	2-Butanone (Methyl ethyl ketone)	1		10.0	ND	
75-15-0	Carbon disulfide	1		5.00	ND	
56-23-5	Carbon tetrachloride	1		5.00	ND	
108-90-7	Chlorobenzene	1		5.00	ND	
75-00-3	Chloroethane	1		10.0	ND	
67-66-3	Chloroform	1		5.00	ND	
74-87-3	Chloromethane (Methyl chloride)	1		10.0	ND	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	1		50.0	ND	
124-48-1	Dibromochloromethane	1		5.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1		5.00	ND	
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1		5.00	ND	
74-95-3	Dibromomethane (Methylene bromide)	1		5.00	ND	
110-57-6	trans-1,4-Dichloro-2-butene	1		5.00	ND	
75-71-8	Dichlorodifluoromethane (Freon 12)	1		50.0	ND	
75-34-3	1,1-Dichloroethane	1		5.00	5.90	
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1		5.00	ND	
75-35-4	1,1-Dichloroethene (Dichloroethylen	1		5.00	11.5	
156-60-5	trans-1,2-Dichloroethene	1		5.00	42.5	
78-87-5	1,2-Dichloropropane	1		5.00	ND	
10061-01-5	cis-1,3-Dichloropropene	1		5.00	ND	
10061-02-6	trans-1,3-Dichloropropene	1		5.00	ND	
123-91-1	1,4-Dioxane	1		500.	ND	
100-41-4	Ethylbenzene	1		5.00	ND	
591-78-6	2-Hexanone	1		10.0	ND	

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7/28/00 07:52:07

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Phone: 504.469.0333
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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-04-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020880
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 26-Jul-00 15:59 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	1		5.00	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	1		500.	ND	
126-98-7	Methacrylonitrile	1		5.00	ND	
75-09-2	Methylene chloride (Dichloromethane	1	A11	5.00	2.00 J	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		10.0	ND	
107-12-0	Propionitrile (Ethyl cyanide)	1		10.0	ND	
100-42-4	Styrene	1		5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	1		5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1		5.00	ND	
127-18-4	Tetrachloroethene (Perchloroethylen	1		5.00	ND	
108-88-3	Toluene	1		5.00	ND	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1		5.00	ND	
79-00-5	1,1,2-Trichloroethane	1		5.00	ND	
79-01-6	Trichloroethene (Trichloroethylene)	10	D1	50.0	222.	
75-69-4	Trichlorofluoromethane (Freon 11)	1		5.00	ND	
96-18-4	1,2,3-Trichloropropane	1		5.00	ND	
108-05-4	Vinyl acetate	1		10.0	ND	
75-01-4	Vinyl chloride (Chloroethene)	10	D1	100.	849.	
1330-20-7	Xylene (total)	1		5.00	ND	

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.

7/28/00 07:52:07

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-04-06 | **Site:** None

Project: Textron S-2,2000 | **Project No.:** 202522 | **Sample Qu:**

Lab ID: 2020880 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics | **Units:** ug/l | **Target List:** 8270AP9WAT

Collected: 12-Jul-00 | **Received:** 13-Jul-00

Prep Factor: 1 | **Leached:** n/a | **Prepared:** 17-Jul-00 | **Analyzed:** 19-Jul-00 16:01 AKE

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

ND denotes Not Detected at or above the adjusted reporting limit.
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7/28/00 07:52:08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-04-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020880
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 16:01 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	ND	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	ND	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	ND	
131-11-3	Dimethylphthalate	1		10.0	ND	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	ND	
51-28-5	2,4-Dinitrophenol	1		25.0	ND	
121-14-2	2,4-Dinitrotoluene	1		10.0	ND	
606-20-2	2,6-Dinitrotoluene	1		10.0	ND	
117-84-0	Di-n-octylphthalate	1		10.0	ND	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	ND	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	ND	
86-73-7	Fluorene	1		10.0	ND	
118-74-1	Hexachlorobenzene	1		10.0	ND	
87-68-3	Hexachlorobutadiene	1		10.0	ND	
77-47-4	Hexachlorocyclopentadiene	1		10.0	ND	
67-72-1	Hexachloroethane	1		10.0	ND	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	ND	
78-59-1	Isophorone	1		10.0	ND	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

ND denotes Not Detected at or above the adjusted reporting limit.
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7/28/00 07:52:08

Laboratory Certifications:
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-04-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020880 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 16:01 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	ND	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	ND	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	ND	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	ND	
91-20-3	Naphthalene	1		10.0	ND	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	ND	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	ND	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	ND	
98-95-3	Nitrobenzene	1		10.0	ND	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	ND	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	ND	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	ND	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	ND	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	ND	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	ND	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	ND	
108-95-2	Phenol	1		10.0	ND	
106-50-3	p-Phenylenediamine	1		10.0	ND	

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.

7/28 00 07:52.08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
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St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

July 28, 2000

Mr. Wade Steinriel
Eco-Systems, Incorporated/MS
439 Katherine Dr.
Suite 2A
Jackson, MS 39200

RE: Pace Project Number: 202522
Client Project ID: Textron S-2,2000

Dear Mr. Steinriel:

Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Randy Shackelford
Project Manager

Enclosures

Report of Laboratory Analysis

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06 | **Site:** None

Project: Textron S-2,2000 | **Project No.:** 202522 | **Sample Qu:**

Lab ID: 2020874 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 04015

Method: SW 8260 Appendix IX Volatile Organics | **Units:** ug/l | **Target List:** 8260AP9WAT

Collected: 12-Jul-00 | **Received:** 13-Jul-00

Prep Factor: 1 | **Leached:** n/a | **Prepared:** | **Analyzed:** 26-Jul-00 14:09 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result		Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1		10.0	ND		
75-05-8	Acetonitrile (Methyl cyanide)	1		50.0	ND		
107-02-8	Acrolein (2-Propenal)	1		10.0	ND		
107-13-1	Acrylonitrile (2-Propenenitrile)	1		10.0	ND		
107-05-1	Allyl chloride (3-Chloropropene)	1		5.00	ND		
71-43-2	Benzene	1		5.00	ND		
75-27-4	Bromodichloromethane	1		5.00	ND		
75-25-2	Bromoform	1		5.00	ND		
74-83-9	Bromomethane (Methyl bromide)	1		10.0	ND		
78-93-3	2-Butanone (Methyl ethyl ketone)	1		10.0	ND		
75-15-0	Carbon disulfide	1		5.00	ND		
56-23-5	Carbon tetrachloride	1		5.00	ND		
108-90-7	Chlorobenzene	1		5.00	ND		
75-00-3	Chloroethane	1		10.0	ND		
67-66-3	Chloroform	1		5.00	ND		
74-87-3	Chloromethane (Methyl chloride)	1		10.0	ND		
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	1		50.0	ND		
124-48-1	Dibromochloromethane	1		5.00	ND		
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1		5.00	ND		
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1		5.00	ND		
74-95-3	Dibromomethane (Methylene bromide)	1		5.00	ND		
110-57-6	trans-1,4-Dichloro-2-butene	1		5.00	ND		
75-71-8	Dichlorodifluoromethane (Freon 12)	1		50.0	ND		
75-34-3	1,1-Dichloroethane	1		5.00	2.90	J	
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1		5.00	ND		
75-35-4	1,1-Dichloroethene (Dichloroethylen	1		5.00	4.70	J	
156-60-5	trans-1,2-Dichloroethene	1		5.00	18.7		
78-87-5	1,2-Dichloropropane	1		5.00	ND		
10061-01-5	cis-1,3-Dichloropropene	1		5.00	ND		
10061-02-6	trans-1,3-Dichloropropene	1		5.00	ND		
123-91-1	1,4-Dioxane	1		500.	ND		
100-41-4	Ethylbenzene	1		5.00	ND		
591-78-6	2-Hexanone	1		10.0	ND		

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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.

7/28/00 07:51:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020874
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04015

Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 26-Jul-00 14:09 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	1		5.00	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	1		500.	ND	
126-98-7	Methacrylonitrile	1		5.00	ND	
75-09-2	Methylene chloride (Dichloromethane	1	A11	5.00	2.10 J	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		10.0	ND	
107-12-0	Propionitrile (Ethyl cyanide)	1		10.0	ND	
100-42-4	Styrene	1		5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	1		5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1		5.00	ND	
127-18-4	Tetrachloroethene (Perchloroethylen	1		5.00	ND	
108-88-3	Toluene	1		5.00	ND	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1		5.00	ND	
79-00-5	1,1,2-Trichloroethane	1		5.00	ND	
79-01-6	Trichloroethene (Trichloroethylene)	5	D1	25.0	469.	
75-69-4	Trichlorofluoromethane (Freon 11)	1		5.00	ND	
96-18-4	1,2,3-Trichloropropane	1		5.00	ND	
108-05-4	Vinyl acetate	1		10.0	ND	
75-01-4	Vinyl chloride (Chloroethene)	1		10.0	170.	
1330-20-7	Xylene (total)	1		5.00	ND	

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.
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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.

7 28 00 07:51:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06 | **Site:** None

Project: Textron S-2,2000 | **Project No.:** 202522 | **Sample Qu:**

Lab ID: 2020874 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics | **Units:** ug/l | **Target List:** 8270AP9WAT

Collected: 12-Jul-00 | **Received:** 13-Jul-00

Prep Factor: 1 | **Leached:** n/a | **Prepared:** 17-Jul-00 | **Analyzed:** 19-Jul-00 13:54 AKE

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

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.

7/28/00 07:51:56

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020874 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 13:54 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	ND	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	ND	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	ND	
131-11-3	Dimethylphthalate	1		10.0	ND	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	ND	
51-28-5	2,4-Dinitrophenol	1		25.0	ND	
121-14-2	2,4-Dinitrotoluene	1		10.0	ND	
606-20-2	2,6-Dinitrotoluene	1		10.0	ND	
117-84-0	Di-n-octylphthalate	1		10.0	ND	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	ND	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	ND	
86-73-7	Fluorene	1		10.0	ND	
118-74-1	Hexachlorobenzene	1		10.0	ND	
87-68-3	Hexachlorobutadiene	1		10.0	ND	
77-47-4	Hexachlorocyclopentadiene	1		10.0	ND	
67-72-1	Hexachloroethane	1		10.0	ND	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	ND	
78-59-1	Isophorone	1		10.0	ND	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

ND denotes Not Detected at or above the adjusted reporting limit.
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7/28/00 07:51:56

Laboratory Certifications:
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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020874 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 13:54 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	ND	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	ND	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	ND	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	ND	
91-20-3	Naphthalene	1		10.0	ND	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	ND	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	ND	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	ND	
98-95-3	Nitrobenzene	1		10.0	ND	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	ND	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	ND	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	ND	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	ND	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	ND	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	ND	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	ND	
108-95-2	Phenol	1		10.0	ND	
106-50-3	p-Phenylenediamine	1		10.0	ND	

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7 28 00 07:51:57

Laboratory Certifications:
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020874 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 13:54 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	ND	
110-86-1	Pyridine	1		10.0	ND	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	ND	
95-95-4	2,4,5-Trichlorophenol	1		25.0	ND	
88-06-2	2,4,6-Trichlorophenol	1		10.0	ND	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

111 compound(s) reported

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7/28/00 07:51:57

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Phone: 504.469.0333
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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06D
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020875
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 26-Jul-00 15:04 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	1		10.0	ND	
75-05-8	Acetonitrile (Methyl cyanide)	1		50.0	ND	
107-02-8	Acrolein (2-Propenal)	1		10.0	ND	
107-13-1	Acrylonitrile (2-Propenenitrile)	1		10.0	ND	
107-05-1	Allyl chloride (3-Chloropropene)	1		5.00	ND	
71-43-2	Benzene	1		5.00	ND	
75-27-4	Bromodichloromethane	1		5.00	ND	
75-25-2	Bromoform	1		5.00	ND	
74-83-9	Bromomethane (Methyl bromide)	1		10.0	ND	
78-93-3	2-Butanone (Methyl ethyl ketone)	1		10.0	ND	
75-15-0	Carbon disulfide	1		5.00	ND	
56-23-5	Carbon tetrachloride	1		5.00	ND	
108-90-7	Chlorobenzene	1		5.00	ND	
75-00-3	Chloroethane	1		10.0	ND	
67-66-3	Chloroform	1		5.00	ND	
74-87-3	Chloromethane (Methyl chloride)	1		10.0	ND	
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	1		50.0	ND	
124-48-1	Dibromochloromethane	1		5.00	ND	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1		5.00	ND	
106-93-4	1,2-Dibromoethane (Ethylene dibromi	1		5.00	ND	
74-95-3	Dibromomethane (Methylene bromide)	1		5.00	ND	
110-57-6	trans-1,4-Dichloro-2-butene	1		5.00	ND	
75-71-8	Dichlorodifluoromethane (Freon 12)	1		50.0	ND	
75-34-3	1,1-Dichloroethane	1		5.00	2.70	J
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1		5.00	ND	
75-35-4	1,1-Dichloroethene (Dichloroethylen	1		5.00	4.80	J
156-60-5	trans-1,2-Dichloroethene	1		5.00	17.7	
78-87-5	1,2-Dichloropropane	1		5.00	ND	
10061-01-5	cis-1,3-Dichloropropene	1		5.00	ND	
10061-02-6	trans-1,3-Dichloropropene	1		5.00	ND	
123-91-1	1,4-Dioxane	1		500.	ND	
100-41-4	Ethylbenzene	1		5.00	ND	
591-78-6	2-Hexanone	1		10.0	ND	

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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7/28/00 07:51:57

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06D
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020875
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04015

Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 26-Jul-00 15:04 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	1		5.00	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	1		500.	ND	
126-98-7	Methacrylonitrile	1		5.00	ND	
75-09-2	Methylene chloride (Dichloromethane	1	A11	5.00	1.90 J	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		10.0	ND	
107-12-0	Propionitrile (Ethyl cyanide)	1		10.0	ND	
100-42-4	Styrene	1		5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	1		5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1		5.00	ND	
127-18-4	Tetrachloroethene (Perchloroethylen	1		5.00	ND	
108-88-3	Toluene	1		5.00	ND	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1		5.00	ND	
79-00-5	1,1,2-Trichloroethane	1		5.00	ND	
79-01-6	Trichloroethene (Trichloroethylene)	5	D1	25.0	477.	
75-69-4	Trichlorofluoromethane (Freon 11)	1		5.00	ND	
96-18-4	1,2,3-Trichloropropane	1		5.00	ND	
108-05-4	Vinyl acetate	1		10.0	ND	
75-01-4	Vinyl chloride (Chloroethene)	1		10.0	158.	
1330-20-7	Xylene (total)	1		5.00	ND	

52 compound(s) reported

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

7/28/00 07:51:58

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
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Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06D
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020875
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 14:36 AKE
Prep Factor: 1
Leached: n/a

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

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.

7/28/00 07:51:58

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06D
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020875
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 14:36 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	ND	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	ND	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	ND	
131-11-3	Dimethylphthalate	1		10.0	ND	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	ND	
51-28-5	2,4-Dinitrophenol	1		25.0	ND	
121-14-2	2,4-Dinitrotoluene	1		10.0	ND	
606-20-2	2,6-Dinitrotoluene	1		10.0	ND	
117-84-0	Di-n-octylphthalate	1		10.0	ND	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	ND	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	ND	
86-73-7	Fluorene	1		10.0	ND	
118-74-1	Hexachlorobenzene	1		10.0	ND	
87-68-3	Hexachlorobutadiene	1		10.0	ND	
77-47-4	Hexachlorocyclopentadiene	1		10.0	ND	
67-72-1	Hexachloroethane	1		10.0	ND	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	ND	
78-59-1	Isophorone	1		10.0	ND	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

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.

7/28/00 07:51:58

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06D
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020875
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 14:36 AKE
Prep Factor: 1
Leached: n/a

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	ND	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	ND	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	ND	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	ND	
91-20-3	Naphthalene	1		10.0	ND	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	ND	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	ND	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	ND	
98-95-3	Nitrobenzene	1		10.0	ND	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	ND	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	ND	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	ND	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	ND	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	ND	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	ND	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	ND	
108-95-2	Phenol	1		10.0	ND	
106-50-3	p-Phenylenediamine	1		10.0	ND	

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7/28/00 07:51:59

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-05-06D
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020875
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 14:36 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	ND	
110-86-1	Pyridine	1		10.0	ND	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	ND	
95-95-4	2,4,5-Trichlorophenol	1		25.0	ND	
88-06-2	2,4,6-Trichlorophenol	1		10.0	ND	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

111 compound(s) reported

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7 28 00 07:51:59

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-01-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020876
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 21-Jul-00 20:07 KCB

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

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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.

7/28/00 07:51:59

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
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Report of Laboratory Analysis

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

www.pacelabs.com

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-01-06
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020876
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04015

Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 21-Jul-00 20:07 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	1		5.00	ND	
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	1		500.	ND	
126-98-7	Methacrylonitrile	1		5.00	ND	
75-09-2	Methylene chloride (Dichloromethane	1	A11	5.00	1.20 J	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		10.0	ND	
107-12-0	Propionitrile (Ethyl cyanide)	1		10.0	ND	
100-42-4	Styrene	1		5.00	ND	
630-20-6	1,1,1,2-Tetrachloroethane	1		5.00	ND	
79-34-5	1,1,2,2-Tetrachloroethane	1		5.00	ND	
127-18-4	Tetrachloroethene (Perchloroethylen	1		5.00	ND	
108-88-3	Toluene	1		5.00	ND	
71-55-6	1,1,1-Trichloroethane (Methyl chlor	1		5.00	ND	
79-00-5	1,1,2-Trichloroethane	1		5.00	ND	
79-01-6	Trichloroethene (Trichloroethylene)	1		5.00	87.7	
75-69-4	Trichlorofluoromethane (Freon 11)	1		5.00	ND	
96-18-4	1,2,3-Trichloropropane	1		5.00	ND	
108-05-4	Vinyl acetate	1		10.0	ND	
75-01-4	Vinyl chloride (Chloroethene)	1		10.0	ND	
1330-20-7	Xylene (total)	1		5.00	ND	

52 compound(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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7/28/00 07:52:00

Laboratory Certifications:
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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-01-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020876
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 15:18 AKE

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

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7/28/00 07:52:00

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Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-01-06 | **Site:** None

Project: Textron S-2,2000 | **Project No.:** 202522 | **Sample Qu:**

Lab ID: 2020876 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics | **Units:** ug/l | **Target List:** 8270AP9WAT

Collected: 12-Jul-00 | **Received:** 13-Jul-00

Prep Factor: 1 | **Leached:** n/a | **Prepared:** 17-Jul-00 | **Analyzed:** 19-Jul-00 15:18 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	ND	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	ND	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	ND	
131-11-3	Dimethylphthalate	1		10.0	ND	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	ND	
51-28-5	2,4-Dinitrophenol	1		25.0	ND	
121-14-2	2,4-Dinitrotoluene	1		10.0	ND	
606-20-2	2,6-Dinitrotoluene	1		10.0	ND	
117-84-0	Di-n-octylphthalate	1		10.0	ND	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	ND	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	ND	
86-73-7	Fluorene	1		10.0	ND	
118-74-1	Hexachlorobenzene	1		10.0	ND	
87-68-3	Hexachlorobutadiene	1		10.0	ND	
77-47-4	Hexachlorocyclopentadiene	1		10.0	ND	
67-72-1	Hexachloroethane	1		10.0	ND	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	ND	
78-59-1	Isophorone	1		10.0	ND	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

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.

7/28/00 07:52:00

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-01-06
Site: None

Project: Textron S-2,2000
Project No.: 202522
Sample Qu:

Lab ID: 2020876
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 04045

Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT

Collected: 12-Jul-00
Received: 13-Jul-00

Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 15:18 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	ND	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	ND	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	ND	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	ND	
91-20-3	Naphthalene	1		10.0	ND	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	ND	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	ND	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	ND	
98-95-3	Nitrobenzene	1		10.0	ND	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	ND	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	ND	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	ND	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	ND	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	ND	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	ND	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	ND	
108-95-2	Phenol	1		10.0	ND	
106-50-3	p-Phenylenediamine	1		10.0	ND	

ND denotes Not Detected at or above the adjusted reporting limit.
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Client ID: TAC-SWMU2-GW-01-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020876 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 15:18 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
109-06-08	2-Picoline (2-Methylpyridine)	1		10.0	ND	
23950-58-5	Pronamide	1		10.0	ND	
129-00-0	Pyrene	1		10.0	ND	
110-86-1	Pyridine	1		10.0	ND	
94-59-7	Safrole	1		10.0	ND	
95-94-3	1,2,4,5-Tetrachlorobenzene	1		10.0	ND	
58-90-2	2,3,4,6-Tetrachlorophenol	1		10.0	ND	
95-53-4	o-Toluidine	1		10.0	ND	
120-82-1	1,2,4-Trichlorobenzene	1		10.0	ND	
95-95-4	2,4,5-Trichlorophenol	1		25.0	ND	
88-06-2	2,4,6-Trichlorophenol	1		10.0	ND	
99-35-4	1,3,5-Trinitrobenzene (sym-Trinitro	1		10.0	ND	

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.
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7/28/00 07:52:01

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Phone: 504.469.0333
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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020877
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04015
Method: SW 8260 Appendix IX Volatile Organics
Units: ug/l
Target List: 8260AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared:
Analyzed: 24-Jul-00 19:45 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result		Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto	25	D6	250.	ND		
75-05-8	Acetonitrile (Methyl cyanide)	25	D6	1250	ND		
107-02-8	Acrolein (2-Propenal)	25	D6	250.	ND		
107-13-1	Acrylonitrile (2-Propenenitrile)	25	D6	250.	ND		
107-05-1	Allyl chloride (3-Chloropropene)	25	D6	125.	ND		
71-43-2	Benzene	25	D6	125.	ND		
75-27-4	Bromodichloromethane	25	D6	125.	ND		
75-25-2	Bromoform	25	D6	125.	ND		
74-83-9	Bromomethane (Methyl bromide)	25	D6	250.	ND		
78-93-3	2-Butanone (Methyl ethyl ketone)	25	D6	250.	ND		
75-15-0	Carbon disulfide	25	D6	125.	ND		
56-23-5	Carbon tetrachloride	25	D6	125.	ND		
108-90-7	Chlorobenzene	25	D6	125.	ND		
75-00-3	Chloroethane	25	D6	250.	ND		
67-66-3	Chloroform	25	D6	125.	ND		
74-87-3	Chloromethane (Methyl chloride)	25	D6	250.	ND		
126-99-8	Chloroprene (2-Chloro-1,3-butadiene	25	D6	1250	ND		
124-48-1	Dibromochloromethane	25	D6	125.	ND		
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	25	D6	125.	ND		
106-93-4	1,2-Dibromoethane (Ethylene dibromi	25	D6	125.	ND		
74-95-3	Dibromomethane (Methylene bromide)	25	D6	125.	ND		
110-57-6	trans-1,4-Dichloro-2-butene	25	D6	125.	ND		
75-71-8	Dichlorodifluoromethane (Freon 12)	25	D6	1250	ND		
75-34-3	1,1-Dichloroethane	25	D6	125.	ND		
107-06-2	1,2-Dichloroethane (Ethylene dichlo	25	D6	125.	ND		
75-35-4	1,1-Dichloroethene (Dichloroethylen	25	D6	125.	39.3	J	
156-60-5	trans-1,2-Dichloroethene	25	D6	125.	ND		
78-87-5	1,2-Dichloropropane	25	D6	125.	ND		
10061-01-5	cis-1,3-Dichloropropene	25	D6	125.	ND		
10061-02-6	trans-1,3-Dichloropropene	25	D6	125.	ND		
123-91-1	1,4-Dioxane	25	D6	12500	ND		
100-41-4	Ethylbenzene	25	D6	125.	ND		
591-78-6	2-Hexanone	25	D6	250.	ND		

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7-28-00 07:52:01

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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020877 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04015

Method: SW 8260 Appendix IX Volatile Organics **Units:** ug/l **Target List:** 8260AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 24-Jul-00 19:45 KCB

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result		Reg. Limit
74-88-4	Iodomethane (Methyl iodide)	25	D6	125.	ND		
78-83-1	2-Methyl-1-propanol (iso-Butyl alco	25	D6	12500	ND		
126-98-7	Methacrylonitrile	25	D6	125.	ND		
75-09-2	Methylene chloride (Dichloromethane	25	A11	125.	37.3	J	
108-10-1	4-Methyl-2-pentanone (MIBK)	25	D6	250.	ND		
107-12-0	Propionitrile (Ethyl cyanide)	25	D6	250.	ND		
100-42-4	Styrene	25	D6	125.	ND		
630-20-6	1,1,1,2-Tetrachloroethane	25	D6	125.	ND		
79-34-5	1,1,2,2-Tetrachloroethane	25	D6	125.	ND		
127-18-4	Tetrachloroethene (Perchloroethylen	25	D6	125.	ND		
108-88-3	Toluene	25	D6	125.	ND		
71-55-6	1,1,1-Trichloroethane (Methyl chlor	25	D6	125.	ND		
79-00-5	1,1,2-Trichloroethane	25	D6	125.	ND		
79-01-6	Trichloroethene (Trichloroethylene)	50	D1	250.	10700		
75-69-4	Trichlorofluoromethane (Freon 11)	25	D6	125.	ND		
96-18-4	1,2,3-Trichloropropane	25	D6	125.	ND		
108-05-4	Vinyl acetate	25	D6	250.	ND		
75-01-4	Vinyl chloride (Chloroethene)	25	D6	250.	297.		
1330-20-7	Xylene (total)	25	D6	125.	ND		

52 compound(s) reported

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7/28/00 07:52:02

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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020877 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 13:11 AKE

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

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7 28 00 07:52.02

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Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06 **Site:** None

Project: Textron S-2,2000 **Project No.:** 202522 **Sample Qu:**

Lab ID: 2020877 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 04045

Method: SW 8270 Appendix IX Semivolatile Organics **Units:** ug/l **Target List:** 8270AP9WAT

Collected: 12-Jul-00 **Received:** 13-Jul-00

Prep Factor: 1 **Leached:** n/a **Prepared:** 17-Jul-00 **Analyzed:** 19-Jul-00 13:11 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
120-83-2	2,4-Dichlorophenol	1		10.0	ND	
87-65-0	2,6-Dichlorophenol	1		10.0	ND	
84-66-2	Diethylphthalate	1		10.0	ND	
60-11-7	p-(Dimethylamino)azobenzene	1		10.0	ND	
57-97-6	7,12-Dimethylbenz(a)anthracene	1		10.0	ND	
119-93-7	3,3'-Dimethylbenzidine	1		10.0	ND	
122-09-8	alpha, alpha- Dimethylphenethylamin	1		10.0	ND	
105-67-9	2,4-Dimethylphenol	1		10.0	ND	
131-11-3	Dimethylphthalate	1		10.0	ND	
99-65-0	1,3-Dinitrobenzene (m-Dinitrobenzen	1		10.0	ND	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Din	1		25.0	ND	
51-28-5	2,4-Dinitrophenol	1		25.0	ND	
121-14-2	2,4-Dinitrotoluene	1		10.0	ND	
606-20-2	2,6-Dinitrotoluene	1		10.0	ND	
117-84-0	Di-n-octylphthalate	1		10.0	ND	
117-81-7	bis(2-Ethylhexyl)phthalate	1		10.0	ND	
97-63-2	Ethyl methacrylate (2-Propenoic aci	1		10.0	ND	
62-50-0	Ethyl methanesulfonate	1		10.0	ND	
206-44-0	Fluoranthene	1		10.0	ND	
86-73-7	Fluorene	1		10.0	ND	
118-74-1	Hexachlorobenzene	1		10.0	ND	
87-68-3	Hexachlorobutadiene	1		10.0	ND	
77-47-4	Hexachlorocyclopentadiene	1		10.0	ND	
67-72-1	Hexachloroethane	1		10.0	ND	
70-30-4	Hexachlorophene	1		10.0	ND	
1888-71-7	Hexachloropropene	1		10.0	ND	
193-39-5	Indeno(1,2,3-cd)pyrene	1		10.0	ND	
78-59-1	Isophorone	1		10.0	ND	
120-58-1	Isosafrole	1		10.0	ND	
91-80-5	Methapyrilene	1		10.0	ND	
56-49-5	3-Methylcholanthrene	1		10.0	ND	
80-62-6	Methyl methacrylate	1		10.0	ND	
66-27-3	Methyl methanesulfonate	1		10.0	ND	

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.

7/28/00 07:52:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Report of Laboratory Analysis

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

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

Phone: 504.469.0333
Fax: 504.469.0555

Client: ECO-SYSTEMS, INCORPORATED/MS

Client ID: TAC-SWMU2-GW-02-06
Site: None
Project: Textron S-2,2000
Project No.: 202522
Sample Qu:
Lab ID: 2020877
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 04045
Method: SW 8270 Appendix IX Semivolatile Organics
Units: ug/l
Target List: 8270AP9WAT
Collected: 12-Jul-00
Received: 13-Jul-00
Prep Factor: 1
Leached: n/a
Prepared: 17-Jul-00
Analyzed: 19-Jul-00 13:11 AKE

CAS Number	Parameter	Dilution	Qu	Reporting Limit	Result	Reg. Limit
91-57-6	2-Methylnaphthalene	1		10.0	ND	
95-48-7	2-Methylphenol (o-Cresol)	1		10.0	ND	
108-39-4	3-Methylphenol (m-Cresol)	1	A7	10.0	ND	
106-44-5	4-Methylphenol (p-Cresol)	1		10.0	ND	
91-20-3	Naphthalene	1		10.0	ND	
134-32-7	1-Naphthaleneamine (1-Naphthylamine	1		10.0	ND	
91-59-8	2-Naphthaleneamine (2-Naphthylamine	1		10.0	ND	
130-15-4	1,4-Naphthoquinone	1		50.0	ND	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1		25.0	ND	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1		25.0	ND	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1		25.0	ND	
98-95-3	Nitrobenzene	1		10.0	ND	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1		10.0	ND	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1		25.0	ND	
56-57-5	4-Nitroquinoline-1-oxide	1		10.0	ND	
924-16-3	N-Nitrosodi-n-butylamine	1		10.0	ND	
55-18-5	N-Nitrosodiethylamine	1		10.0	ND	
62-75-9	N-Nitrosodimethylamine	1		10.0	ND	
86-30-6	N-Nitrosodiphenylamine (Diphenylami	1	A10	10.0	ND	
621-64-7	N-Nitroso-di-n-propylamine	1		10.0	ND	
10595-95-6	N-Nitrosomethylethylamine	1		10.0	ND	
59-89-2	N-Nitrosomorpholine	1		10.0	ND	
100-75-4	N-Nitrosopiperidine	1		10.0	ND	
930-55-2	N-Nitrosopyrrolidine	1		10.0	ND	
99-55-8	5-Nitro-o-toluidine	1		10.0	ND	
608-93-5	Pentachlorobenzene	1		10.0	ND	
76-01-7	Pentachloroethane	1		10.0	ND	
82-68-8	Pentachloronitrobenzene	1		10.0	ND	
87-86-5	Pentachlorophenol	1		25.0	4.10 J	
62-44-2	Phenacetin	1		10.0	ND	
85-01-8	Phenanthrene	1		10.0	ND	
108-95-2	Phenol	1		10.0	ND	
106-50-3	p-Phenylenediamine	1		10.0	ND	

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.

7/28/00 07:52:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

ESI

APPENDIX C

STATISTICAL CALCULATION DATA SHEETS

Wilcoxon Rank-Sum Test

port Printed: 08-29-2000 16:26

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: 71-55-6
MCL: 0.000 ppm
ACL: 0.000 ppm
Detect Limit: 0.000 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	3.5
MW-1	07/12/00	0.0025	3.5
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:		21.0
MW-2	03/09/00	0.0130	7.0
MW-2	07/12/00	0.0625	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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

port Printed: 08-29-2000 16:27

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: 79-00-5
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.125 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0025	4.0
MW-2	07/12/00	0.0625	8.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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.

	Background Data Rank-Sum:		21.0
MW-2	03/09/00	0.0260	7.0
MW-2	07/12/00	0.0625	8.0
Wi	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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.

MW

Wilcoxon Rank-Sum Test

Report Printed: 08-29-2000 16:33

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:ClEthane Chloroethane

CAS Number: 75-00-3
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.250 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	100	0.13	0.00	0.06	0.08
MW-4	2	100	0.00	0.00	0.00	0.00
MW-5	2	100	0.00	0.00	0.00	0.00

Well	Date	Observation	Rank
MW-1	03/09/00	0.0050	4.0
[illegible]-1	07/12/00	0.0050	4.0
[illegible]-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:		24.0
MW-2	03/09/00	0.0050	4.0
MW-2	07/12/00	0.1250	8.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-29-2000 16:32

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:Benzene Benzene

CAS Number: 71-43-2
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.125 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0025	4.0
MW-2	07/12/00	0.0625	8.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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

port Printed: 08-29-2000 16:34

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: 127-18-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.125 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	50	0.06	0.04	0.05	0.02
MW-4	2	100	0.00	0.00	0.00	0.00
MW-5	2	100	0.00	0.00	0.00	0.00

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	3.5
[illegible]-1	07/12/00	0.0025	3.5
[illegible]-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:		21.0
MW-2	03/09/00	0.0390	7.0
MW-2	07/12/00	0.0625	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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: 08-29-2000 16:35

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:Xylene Xylene

CAS Number: 1330-20-7
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.125 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0025	4.0
MW-2	07/12/00	0.0625	8.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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.

One-Way Parametric Analysis of Variance

Report Printed: 08-25-2000 14:28

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: 79-01-6
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	17	-2.06	-5.99	-2.88	1.54

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	0	3.07	2.37	2.72	0.50
MW-4	2	0	-1.46	-1.51	-1.48	0.03
MW-5	2	0	0.29	-0.76	-0.24	0.74

Data Mode:Log Transformed

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	49.658	3	16.553	10.484
Within wells	12.630	8	1.579	p= 0.003807
Total	62.288	11		

Tabulated F(α= 0.050): 4.066
Since the calculated F exceeds the tabulated F, the hypothesis of equal well means must be rejected.

* Indicates statistically significant evidence of contamination.

WELL ID	OBS.S	WELL MEAN	DIF. FROM BACK.	STD. ERROR	CALC.-t	t-CRIT
*MW-2	2	2.721	5.602	1.026	5.461	2.566
MW-4	2	-1.483	1.398	1.026	1.362	2.566
*MW-5	2	-0.236	2.645	1.026	2.578	2.566

Wilcoxon Rank-Sum Test

Report Printed: 08-25-2000 13:43

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:Cr Chromium, total

CAS Number: 7440-47-3
MCL: 0.100 ppm
ACL: 0.100 ppm
Detect Limit: 0.010 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	0	13.20	10.80	12.00	1.70
MW-4	2	100	0.00	0.00	0.00	0.00
MW-5	2	50	0.01	0.00	0.01	0.00

Well	Date	Observation	Rank
MW-1	03/09/00	0.0050	3.5
MW-1	07/12/00	0.0050	3.5
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:		21.0
MW-2	03/09/00	13.2000	8.0
MW-2	07/12/00	10.8000	7.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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: 08-25-2000 13:46

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:Cr Chromium, total

CAS Number: 7440-47-3
MCL: 0.100 ppm
ACL: 0.100 ppm
Detect Limit: 0.010 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	0	13.20	10.80	12.00	1.70
MW-4	2	100	0.00	0.00	0.00	0.00
MW-5	2	50	0.01	0.00	0.01	0.00

Well	Date	Observation	Rank
MW-1	03/09/00	0.0050	4.0
MW-1	07/12/00	0.0050	4.0
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:		24.0
MW-5	03/09/00	0.0120	8.0
MW-5	07/12/00	0.0050	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 13:51

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: 108-88-3
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0260	8.0
MW-2	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 13:52

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: 127-18-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0390	8.0
MW-2	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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

port Printed: 08-25-2000 13:54

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: 540-59-0
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	50	0.01	0.00	0.01	0.01
MW-4	2	0	0.04	0.02	0.03	0.02
MW-5	2	0	0.03	0.02	0.02	0.01

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
-1	07/12/00	0.0025	4.0
-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:		24.0
MW-2	03/09/00	0.0140	8.0
MW-2	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 13:36

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: 71-55-6
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0130	8.0
MW-2	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
Significance Level α:	0.01
$Z\alpha$:	2.3263

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: 08-25-2000 13:42

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:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	0	0.30	0.17	0.23	0.09
MW-4	2	0	0.85	0.07	0.46	0.55
MW-5	2	0	0.17	0.10	0.13	0.05

Well	Date	Observation	Rank
MW-1	03/09/00	0.0050	4.5
MW-1	07/12/00	0.0050	4.5
MW-1	11/23/98	0.0025	1.5
MW-1	02/04/99	0.0050	4.5
MW-1	04/29/99	0.0050	4.5
MW-1	07/23/99	0.0025	1.5

	Background Data Rank-Sum:		21.0
MW-5	03/09/00	0.0970	7.0
MW-5	07/12/00	0.1700	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.7967
Approx Z-Score Z:	1.9666
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: 08-25-2000 13:40

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: 75-01-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	0	0.30	0.17	0.23	0.09
MW-4	2	0	0.85	0.07	0.46	0.55
MW-5	2	0	0.17	0.10	0.13	0.05

Well	Date	Observation	Rank
MW-1	03/09/00	0.0050	4.5
MW-1	07/12/00	0.0050	4.5
MW-1	11/23/98	0.0025	1.5
MW-1	02/04/99	0.0050	4.5
MW-1	04/29/99	0.0050	4.5
MW-1	07/23/99	0.0025	1.5

	Background Data Rank-Sum:		21.0
MW-4	03/09/00	0.0730	7.0
MW-4	07/12/00	0.8490	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.7967
Approx Z-Score Z:	1.9666
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: 08-25-2000 13:39

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: 75-01-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.010 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	0	0.30	0.17	0.23	0.09
MW-4	2	0	0.85	0.07	0.46	0.55
MW-5	2	0	0.17	0.10	0.13	0.05

Well	Date	Observation	Rank
MW-1	03/09/00	0.0050	4.5
MW-1	07/12/00	0.0050	4.5
MW-1	11/23/98	0.0025	1.5
MW-1	02/04/99	0.0050	4.5
MW-1	04/29/99	0.0050	4.5
MW-1	07/23/99	0.0025	1.5

	Background Data Rank-Sum:		21.0
MW-2	03/09/00	0.1730	7.0
MW-2	07/12/00	0.2970	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.7967
Approx Z-Score Z:	1.9666
Significance Level α:	0.05
Zα:	1.6449

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

Wilcoxon Rank-Sum Test

Report Printed: 08-29-2000 16:31

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

CAS Number: 540-59-0
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.125 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	50	0.06	0.01	0.04	0.03
MW-4	2	0	0.04	0.02	0.03	0.02
MW-5	2	0	0.03	0.02	0.02	0.01

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	3.5
MW-1	07/12/00	0.0025	3.5
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:		21.0
MW-2	03/09/00	0.0140	7.0
MW-2	07/12/00	0.0625	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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: 08-25-2000 13:56

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: 540-59-0
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	50	0.01	0.00	0.01	0.01
MW-4	2	0	0.04	0.02	0.03	0.02
MW-5	2	0	0.03	0.02	0.02	0.01

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	3.5
MW-1	07/12/00	0.0025	3.5
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:		21.0
MW-5	03/09/00	0.0300	8.0
MW-5	07/12/00	0.0190	7.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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: 08-25-2000 13:55

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: 540-59-0
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-2	2	50	0.01	0.00	0.01	0.01
MW-4	2	0	0.04	0.02	0.03	0.02
MW-5	2	0	0.03	0.02	0.02	0.01

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	3.5
MW-1	07/12/00	0.0025	3.5
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:		21.0
MW-4	03/09/00	0.0160	7.0
MW-4	07/12/00	0.0430	8.0
	Compliance Data Rank-Sum:		15.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	12.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	2.2913
Approx Z-Score Z:	2.4004
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: 08-25-2000 13:57

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

CAS Number: 75-35-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0260	8.0
MW-2	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 13:58

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: 75-35-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-4	03/09/00	0.0025	4.0
MW-4	07/12/00	0.0120	8.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 14:01

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:1,1DCE 1,1-Dichloroethane

CAS Number: 75-34-3
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-2	03/09/00	0.0100	8.0
MW-2	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 14:23

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: 75-34-3
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-4	03/09/00	0.0025	4.0
MW-4	07/12/00	0.0060	8.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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: 08-25-2000 13:59

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: 75-35-4
MCL: 0.010 ppm
ACL: 0.010 ppm
Detect Limit: 0.005 ppm

Start Date:Mar 09 1900
End Date:Jul 23 1999

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
MW-1	6	100	0.00	0.00	0.00	0.00

Compliance Wells

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

Well	Date	Observation	Rank
MW-1	03/09/00	0.0025	4.0
MW-1	07/12/00	0.0025	4.0
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:		24.0
MW-5	03/09/00	0.0060	8.0
MW-5	07/12/00	0.0025	4.0
	Compliance Data Rank-Sum:		12.0

Background Data Pts m:	6
Compliance Data Pts n:	2
Wilcoxon Statistic W:	9.0000
Expected Value E(W):	6.0000
Std Dev SD(W):	3.0000
Std Dev (Ties) SD'(W):	1.7321
Approx Z-Score Z:	1.4434
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.