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Environmental
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16 July 2007

ECOR
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Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866

Re: First Quarter Report 2007
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the First Quarter of 2007. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

Matthew Lapp
Project Engineer

cc: Mr. John Grathwol - NYSDEC
Mr. Chris Rockwell - Garlock Sealing Technologies
Mr. Terry Etter, P.E. - Unisys Corporation
Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)
Keith Rapp - ECOR Solutions
Project File - ECOR Solutions

BYRON BARREL & DRUM SITE

QUARTERLY REPORT
FIRST QUARTER 2007
January through March 2007

Byron Barrel & Drum Site
Area 2
Byron, New York

16 July 2007

Prepared for:

BYRON BARREL & DRUM PRP GROUP

Prepared by:

ECOR Solutions, Inc.
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1.0 INTRODUCTION

This quarterly report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the first quarter 2007. A Site map is provided as **Figure 1.** The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site during the previous quarter. This report discusses the remedial activities and Site monitoring activities conducted during the first calendar quarter of 2007. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

LI SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984).
A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area *2* was in-situ soil flushing and groundwater pumping, treatment, and discharge. The Remedial Action construction was performed during the summer of 2001. The implementation of the Remedial Design included excavation and characterization of potentially impacted soil, and installation of additional two groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

*1.2 **CHRONOLOGY** OF EVENTS*

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	**Date**	**Notes**
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11, 2001	
RA Construction	June 11 -July 15,2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19,2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous O & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17,2002	
Second UZ Soil Sampling Event	August 14, 2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site Groundwater
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19, 2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (1st Quarter 2007), no significant activities occurred relative to the Remedial Design.

3.0 OPERATION OF GROUNDWATER TREATMENT SYSTEM

Groundwater recovered from the three pumping wells (PW-l, PW-2, and PW-3) is treated through one bag filter and an air stripper prior to discharge. The bag filter removes suspended solids greater than 50 microns in diameter. The low-profile air stripper removes the VOCs from the groundwater. Following air stripping, the groundwater is discharged to surface water. **Figure 1** illustrates the PW locations and the Groundwater Treatment System. A Flow Diagram of the Groundwater Treatment System equipment and process piping is presented in **Figure 2.**

At present, due to a partial closing of the effluent discharge pipe caused from scale buildup, it is not possible to handle the flow from all three wells at one time. Pumping well PW-l has routinely maintained a steady flowrate while PW-2 and PW-3 have typically have been turned off and cycled intermittently during operation. While pumping flowrates have decreased, VOC concentrations continue to remain low, approaching asymptotic levels.

3.1 ROUTINE OPERATION

Scheduled O&M activities include weekly Site visits by the local Chief Operator, Steve Rodland. The Chief Operator is the first responder to autodialer alarms from the Site. Weekly Site visits include performing an overall Site inspection, GWTP system inspection, including checking the bag filter for solids loading, gauging air flow through the stripper, and noting flow rates and totalized flow. Preventive maintenance items performed by the operator include monthly inspections of the air stripper blower, and air stripper trays are inspected for sediment and mineral deposits. The trays require cleaning on a quarterly basis as a preventative maintenance and system operation performance item.

3.2 SYSTEM OPERATIONS AND MONITORING HISTORY THROUGH FIRST QUARTER 2007

A total of 20,370,400 gallons of groundwater and approximately 37.8 pounds of dissolved-phase total VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,546,400 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion of the Final RA Report for soils that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

At the beginning of 2002, Treatment System Influent and Effluent were sampled and analyzed on a twice-monthly basis, as per the initial DEC discharge approval document. The Treatment System sampling schedule was reduced to quarterly during the third quarter 2002 following approval of the NYSDEC. Effluent samples have been collected and analyzed during subsequent quarterly sampling events. The analytical results of the effluent have consistently met the DEC's Effluent Limitations, and have generally had non-detectable concentrations of VOCs. **Tables 1** and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4.** This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

On May 2, 2007 a site inspection was performed by the EPA's George Jacob as part of the project's five year review. Also in attendance were Richard Krauser (EPA), John Grathwol (DEC), Chris Rockwell (PRP Group), Matt Lapp and Will Torres (ECOR). No issues were identified during the inspection.

3.3 OPERATIONAL PROBLEMS ENCOUNTERED

As mentioned in Section 3.0, normal operation of the GWTS was stopped due to clogging of the effluent pipe. The system would only remain on by keeping PW-1 running and intermittently cycling PW-2 and PW-3. The following list summarizes additional operational problems encountered during the first quarter 2007:

- On January 18 system power was lost due to an ice storm. The freezing conditions and slow flow led to the freezing and subsequent splitting of the effluent discharge pipe. The end of the pipe was removed.
- On January 24 it was discovered that the flow meters on PW-2 and PW-3 were frozen due to extreme cold. (No flow readings were available.)
- On January 31, there was a high level alarm in the air stripper sump. The flow of PW-I was reduced to prevent a future high level alarm.
- On February 7 system power was lost to inclement weather.
- On March 14 it was noted that the effluent discharge pipe was under 18 inches of water due to rain and thawing snow.
- On March 28 system power was lost due to a severe electrical storm with heavy rains.

Since it is undetermined how long the treatment system will remain in operation due to an alternative in-situ remediation technique which is being proposed, the system will continue to be run utilizing only PW-1 with PW-2 and PW-3 cycled intermittently.

4.0 QUARTERLY SITE MONITORING EVENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on 22 March 2007 and was conducted in accordance with the agreed upon modifications to the QAPP in telephone conversations between ECOR, EPA, and DEC's Project Managers on 23 May 2003. Groundwater samples were collected from monitoring wells MW-1, MW-4, MW10B, MW-Residential, and MW-21 as well as pumping wells PW-1, PW-2 and PW-3 using EPA's low-flow sampling procedures, in accordance with the QAPP. A summary of the field parameter measurements is presented in **Table** 3. The purging and sampling procedures utilized during collection of the quarterly samples were consistent with the procedures outlined in the QAPP. A copy of field notes collected during the sampling event is included in **Appendix A.** The preserved groundwater samples were collected and analyzed by Severn Trent Laboratories (STL), Buffalo, New York. In addition, groundwater elevations were measured from Site monitoring wells. A summary of Site groundwater elevations is provided in **Table 4.**

4.2 LABORATORY ANALYSIS / GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5.** The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater samples (MW-1, MW-4, MW-10B, MW-Residential and MW-21) were analyzed for the following twenty (20) project specific compounds: 1,1 -dichloroethane (1,1 -DCA), 1,1-dichloroethene (1,1 -DCE), methylene chloride (MeCl), toluene, 1,1,1 -trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MeCl, TCA, TCE, toluene, VC and cis-l,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 210 micrograms per liter (ug/L) (TCA at monitoring well PW-3). Currently, only 1,1-DCA, and TCA are present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

Chpftiiciil v^ udv-mivni	Groundwater Cleanup Level («g/L)
1,1-Dichloroethane	5
1,1 -Diclhloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

Groundwater quality data is depicted on **Figure** 5 with those constituents detected above the applicable clean-up standard are highlighted in yellow.

4.3 DATA VALIDATION

As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix B.**

5.0 PLANS FOR NEXT QUARTER

The next quarterly groundwater sampling event will be performed in June 2007. Operation and maintenance plans for the next quarter include continued routine operation as well as preventative maintenance of the pumping wells and GWTP.

ECOR submitted an in-situ bioremediation applicability study to the PRP group for review. The PRP Group requested an independent assessment of the data and recommendation prior to implementation. The independent assessment was completed during June 2006. The findings indicate that an in-situ bioremediation process may be an effective remediation technology. A work plan has been prepared and is awaiting the approval of the EPA.

Upon approval, the treatment system will be shut down temporarily in order to establish baseline conditions prior to implementation of the in-situ bioremediation workplan.

TABLES

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, ug/L	23	47	60	19 J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12J	16 DJ	50 U
Cis -1,2 - Dichloroethene, ug/L	1.0J	1.4 J	1.0 J	50 U	50 U	50 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, ug/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, ug/L	1.9J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, ug/L	499	899	1276	1124	1174	823

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, ug/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, ug/L	13J	13J	9.4 J	4.2 J	4.6 J	4.3 J
Cis-1,2- Dichloroethene, ug/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Methylene Chloride, ug/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	1200	580	530	260	220 E	250 E
Trichloroethene, ug/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Vinyl Chloride, ug/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Total Confident VOCs, ug/L	1259	635	559	277	237	270

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	10	16	10	11	11	10
1,1-Dichloroethene, ug/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1 J	2.5 J
Cis -1,2 - Dichloroethene, ug/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10U
Methylene Chloride, ug/L	10U	10U	5.0 U	5.0 U	1.8 BJ	10U
1,1,1 -Trichloroethane, ug/L	220	320	240 E	320 E	330 E	240
Trichloroethene, ug/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, ug/L	10U	10 U	3.3 J	5.0 U	5.0 U	10 U
Vinyl Chloride, ug/L	10 U	10 U	5.0 U	5.0 U	5.0 U	10U
Total Confident VOCs, ug/L	238	339	256	337	348	253

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	12	20	19J	18D,J	20
1,1-Dichloroethene, pg/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10U	10 U	10 U	25 U	20 U	10U
Methylene Chloride, ug/L	15B	10 U	3.1 BJ	16 J	12B.D.J	8.5 B,J
1,1,1 - Trichloroethane, pg/L	230	260	350	390	360 D	380
Trichloroethene, pg/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, ug/L	2.6 J	10 U	10 U	25 U	20 U	10U
Vinyl Chloride, pg/L	10U	10 U	10 U	25 U	20 U	10U
Total Confident VOCs, pg/L	246	276	376	425	390	407

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/2002	8/29/2002	9/18/2002	10/29/2002	11/25/2002	12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, pg/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, pg/L	2.6 J	1.3J	1.8J	3.0 J	2.4 DJ	2.8 J
Cis -1,2 - Dichloroethene, pg/L	10U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Methylene Chloride, pg/L	10U	5.0 U	5.0 U	5.0 U	10U	5.0 U
1,1,1 -Trichloroethane, pg/L	210	150	190	170	160 D	150
Trichloroethene, pg/L	10 U	1.9 J	1.9 J	2.5 J	10U	1.9J
Toluene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Vinyl Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Total Confident VOCs, pg/L	222	162	202	184	172	161

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	1/17/2003	2/19/2003	4/30/2003	6/23/2003	7/30/2003	8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10U	10 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6 J	10U	10U	1.2 J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147 •	159	68

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	9/24/2003	10/23/2003	11/20/2003	12/3/2003	1/29/2004	3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	8.8 DJ	7.4 DJ	4,7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, ug/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	10 U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	180 D	170 D	92	110	1.9 J	96
Trichloroethene, ug/L	2.0 DJ	10U	1.1 J	1.6 J	5.0 U	1.0J
Toluene, ug/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, ug/L	191	174	98	118	2	104

Sampling Event	43/GW	44/GW	45/GW	46/GW	47/GW	48/GW
Date	5/20/2004	6/16/2004	7/15/2004	8/26/2004	9/14/2004	10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.5	10D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, ug/L	5.0 U	10 U	2.3 J	5.0 U	10 U	2.3 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, ug/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, ug/L	150	180 D	190	74	170 D	90
Trichloroethene, pg/L	5.0 U	10U	1.6 J	5.0 U	10U	1.1 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, pg/L	156	190	201	77	179	97

Sampling Event	49/GW	50/GW	51/GW	52/GW	53/GW	54/GW
Date	12/14/2004	1/27/2005	3/22/2005	4/26/2005	5/30/2005	6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, pg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 **u**	1.0 U
1,1,1 -Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6J	2.2 J	5.0 U	5.0 U	1.2 J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Total Confident VOCs, pg/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Byron Barret and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	55/GW	56/GW	57/GW	58/GW	59/GW	60/GW
Date	7/28/2005	8/29/2005	9/13/2005	10/18/2005	11/22/2005	12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	10	9.5 J	2.3 J	7.1J	5.2 J	2.7 J
1,1-Dichloroethene, pg/L	4.8	3.1J	0.64 J	1.5J	2.7 J	0.84 J
Cis -1,2 - Dichloroethene, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Methylene Chloride, ug/L	1.0 U	2.4 J	5.0 U	10U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, ug/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Total Confident VOCs, ug/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event	61/GW	62/GW	63/GW	64/GW	65/GW	66/GW
Date	1/19/2006	2/24/2006	3/27/2006	4/20/2006	5/25/2006	6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, ug/L	1.7J	1.3J	1.1 J	1.3 J	1.5 J	0.94 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10 U	5.0 U	10 U	10U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.1 BJ	5.0 U	10 U	1.3 J	5.0 U
1,1,1 -Trichloroethane, ug/L	170	100	110	140	160	80
Trichloroethene, ug/L	1.3J	0.87 J	0.95 J	1.0J	1.2 J	0.72 J
Toluene, ug/L	5.0 U	10U	5.0 U	10U	10U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10U	5.0 U	10U	10U	5.0 U
Total Confident VOCs, pg/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event	67	68	69	70	71	72
Date	7/18/2006	8/7/2006	9/14/2006	10/12/2006	11/22/2006	12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	1.6 J	1.2 J	4.7 J	1.4J	2.3 J	1.3J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0J	1.8 J	0.64 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	73	74	75
Date	1/18/2007	2/28/2007	3/21/2007
Field Influent pH, std pH units	7.64	7.62	7.53
Total Suspended Solids, mg/L	NA	NA	NA
1,1-Dichloroethane, ug/L	1.8J	5.6 DJ	6.2 J
1,1-Dichloroethene, ug/L	0.64 J	2.7 DJ	1 5J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10U	10 U
Methylene Chloride, ug/L	5.0 U	1.0 DJ	10 U
1,1,1 - Trichloroethane, ug/L	62	170 D	230
Trichloroethene, ug/L	0.78 J	1.3 DJ	10 U
Toluene, ug/L	5.0 U	10U	10 U
Vinyl Chloride, ug/L	5.0 U	10U	10 U
Total Confident VOCs, ug/L	65.22	180.6	245.5

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.
E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.5J	5.0 U	1.5 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH, std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3 J	2.8 B,J
1,1,1 -Trichloroethane, pg/L	5.GU	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5 J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.08	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichioroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride. ug/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichioroethene. ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids. mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1.2 - Dichioroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 'Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5-0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, M9"-	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, yg/L	1.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	1.0U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW
Date	12/14/2006	3/21/2007
Field Effluent pH, std pH units	8.36	6.44
Total Suspended Solids, mg/L	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.
E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
Byron Barrel and Drum Site
Field Chemistry Readings
March 22, 2007 Quarterly Sampling Event

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW21	1000	11.4	45	7.13	0.5	2.52	770
	1005	10.9	49	7.17	0.5	2.48	725
	1010	10.7	50	7.19	0.5	2.40	720
	1015	10.4	53	7.20	0.5	2.38	716
	1020	10.3	54	7.23	0.5	2.36	715
	1025	10.2	55	7.25	0.5	2.31	715
	1030	10.2	56	7.25	0.5	2.28	710
MW-4-9/GW21	1045	11.9	54	7.40	0.4	2.47	677
	1050	11.7	53	7.40	0.4	2.25	667
	1055	11.5	52	7.41	0.4	2.20	660
	1100	11.6	51	7.42	0.4	2.19	658
	1105	11.7	49	7.44	0.4	2.11	655
	1110	11.5	48	7.43	0.4	2.08	656
	1115	11.3	47	7.44	0.4	1.99	655
MW-10B-9/GW21	1130	12.3	53	7.29	0.4	2.84	675
	1135	12.4	51	7.29	0.4	2.83	676
	1140	12.3	50	7.29	0.4	2.81	676
	1145	12.1	50	7.29	0.4	2.79	675
	1150	11.9	50	7.30	0.4	2.77	674
	1155	11.7	50	7.32	0.4	2.75	675
	1200	11.8	50	7.34	0.4	2.70	674
MW-Residential-9/GW21	1215	11.4	-37	7.62	0.2	2.67	323
	1220	11.5	-44	7.68	0.2	2.55	320
	1225	11.2	-50	7.77	0.2	2.43	317
	1230	11.4	-50	7.83	0.2	2.39	317
	1235	11.1	-51	7.83	0.2	2.35	317
	1240	11.3	-52	7.85	0.2	2.33	319
	1245	11.1	-51	7.83	0.2	2.30	317

Table 3
Byron Barrel and Drum Site
Field Chemistry Readings
March 22, 2007 Quarterly Sampling Event

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-21-9/GW21	1305	8.7	-21	7.33	1.2	4.70	1860
	1310	8.7	-23	7.33	1.2	4.69	1840
	1315	8.7	-25	7.35	1.2	4.68	1840
	1320	8.7	-25	7.37	1.2	4.66	1830
	1325	8.8	-27	7.38	1.2	4.63	1830
	1330	8.8	-27	7.38	1.2	4.60	1830
PW-1/GW21	1340	9.8	-21	7.68	0.5	7.45	714
PW-2/GW21	1345	9.7	-14	7.66	0.5	7.17	712
PW-3/GW21	1350	9.7	-2	7.64	0.3	7.82	518

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

Table 4
Byron Barrel and Drum Site
Groundwater Elevations for
December 2006 Sampling Event
ECOR Solutions, Inc.

Operator: P. Little

Date: 3/22/2007

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	wc ft
PW-1	14.50	642.82	628.32	–	–
PW-2	4.19	641.34	637.15	–	–
PW-3	5.45	641.11	635.66	–	–
Monitoring Wells					
MW-1	4.19	639.63	635.44	11.65	7.46
MW-2	10.36	646.36	636.00	15.10	4.74
MW-4	3.24	638.56	635.32	11.50	8.26
MW-10B	8.44	644.44	636.00	20.35	11.91
MW-21	7.38	642.52	635.14	27.90	20.52
Residential	15.09	650.78	635.69	35.17	20.08
Piezometers					
PZ-1	7.12	643.11	635.99	27.58	20.46
PZ-2	6.64	642.39	635.75	27.29	20.65

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)							
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	**5**	**5**	**5**	**2**
MW-1	3/20/2002	639.63	5.24	634.39	**86**	49	NA	5 U	**1700**	**2 J**	**5 U**	**2 J**
	6/12/2002	639.63	5.07	634.56	**81**	**38**	NA	5 U	**1600**	**3 J**	**5 U**	**5 U**
	9/18/2002	639.63	7.15	632.48	**13**	13 J	NA	5 UJ	**350**	**5 U**	**5 U**	**5 U**
	12/18/2002	639.63	5.62	634.01	42	37 J	NA	25 U	**1200**	**5 J**	25 **U**	25 **U**
	4/29/2003	639.63	4.53	635.10	**57**	**34**	NA	25 U	**1300 J**	25 **U**	25 **U**	25 **U**
	6/24/2003	639.63	5.36	634.27	32	24	NA	5 U	**720**	**4 J**	**5 U**	**5 U**
	9/24/2003	639.63	6.72	632.91	24 J	17 J	NA	25 U	**580**	25 **U**	25 **U**	25 **U**
	12/3/2003	639.63	5.53	634.10	33 J	28 J	NA	40 U	**860 J**	40 **U**	40 **U**	40 **U**
	3/30/2004	639.63	3.40	636.23	30 J	**31**	NA	25 U	**830 J**	25 **UJ**	25 **U**	25 **U**
	6/16/2004	639.63	4.20	635.43	26	22 J	NA	25 UJ	**870**	25 **U**	**25 U**	25 **U**
	9/14/2004	639.63	4.56	635.07	28	26	NA	25 U	**730**	25 **U**	25 **U**	25 **U**
	12/14/2004	639.63	4.61	635.02	**31**	26	NA	25 U	**760**	25 **UJ**	25 **U**	25 **U**
	3/22/2005	639.63	4.32	635.31	41	**110**	NA	5 U	**830**	**5**	**5 U**	**5 U**
	6/7/2005	639.63	5.45	634.18	10 J	14 J	NA	13 J	**340**	50 **U**	50 **UJ**	50 **U**
	9/13/2005	639.63	6.89	632.74	**14**	**16**	NA	5 U	**410**	**2 J**	**5 UJ**	**5 U**
	12/20/2005	639.63	4.78	634.85	24 J	24 J	NA	40 U	**580**	40 **U**	40 **U**	40 **U**
	3/26/2006	639.63	5.07	634.56	29	24	NA	5 U	**540**	**4 J**	**5 U**	**5 U**
	6/22/2006	639.63	5.68	633.95	7	9	NA	5 U	**220**	**2 J**	**5 U**	**5 U**
	9/14/2006	639.63	5.15	634.48	5 J	6 J	NA	10 U	**190**	**2 J**	10 **U**	10 **U**
	12/7/2006	639.63	4.54	635.09	6 J	9 J	NA	10 U	**170**	**2 J**	10 **U**	10 **U**
	3/22/2007	639.63	4.19	635.44	2 J	4 J	NA	10 U	**100**	**2 J**	10 **U**	10 **U**

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)							
		Groundwater Cleanup Levels (pg/L):			5	**5**	**NA**	5	**5**	5	5	2
MW-4	3/20/2002	638.56	4.79	633.77	17 J	14 **J**	**NA**	25 U	**450**	10 J	25 U	25 U
	6/12/2002	638.56	4.48	634.08	3 J	**2 J**	**NA**	5 U	**83**	8	5 U	5 U
	9/18/2002	638.56	6.04	632.52	5 U	**5 UJ**	**NA**	5 UJ	**27**	5	5 U	5 U
	12/18/2002	638.56	5.22	633.34	**40**	**24**	**NA**	5 U	**200**	8	5 U	5 U
	4/29/2003	638.56	4.50	634.06	**31**	13 **J**	**NA**	25 U	**530**	25 U	25 U	25 U
	6/24/2003	638.56	4.58	633.98	5 UJ	**5 UJ**	**NA**	5 U	**17 J**	4 J	5 U	5 UJ
	9/24/2003	638.56	5.91	632.65	**35**	**9 J**	**NA**	10 U	**240**	8 J	10 U	10 U
	12/3/2003	638.56	4.98	633.58	65	17 **J**	**NA**	20 U	**550**	11 J	20 U	20 U
	3/30/2004	638.56	4.15	634.41	**12**	**5**	**NA**	5 U	**130**	3 J	5 U	5 U
	6/16/2004	638.56	3.64	634.92	15 J	25 **UJ**	**NA**	25 UJ	**150**	25 U	25 U	25 U
	9/14/2004	638.56	3.71	634.85	11 J	25 **U**	**NA**	25 U	**87**	25 U	25 U	25 U
	12/14/2004	638.56	3.97	634.59	11 J	25 **U**	**NA**	25 U	**67**	25 U	25 U	25 U
	3/22/2005	638.56	3.55	635.01	50 U	50 **U**	**NA**	50 UJ	**87**	50 U	50 U	50 U
	6/7/2005	638.56	4.25	634.31	5 U	**5 U**	**NA**	5 U	**8**	1 J	5 U	5 U
	9/13/2005	638.56	5.84	632.72	5 U	**5 U**	**NA**	5 U	**11**	2 J	5 U	5 U
	12/20/2005	638.56	4.75	633.81	4 J	25 **U**	**NA**	25 U	**48**	25 U	25 U	25 U
	3/25/2006	638.56	4.32	634.24	5 U	**5 U**	**NA**	5 U	**8**	1 J	5 U	5 U
	6/22/2006	638.56	4.50	634.06	5 U	**5 U**	**NA**	5 U	**9**	1 J	5 U	5 U
	9/14/2006	638.56	3.92	634.64	5 U	**5 U**	**NA**	5 U	**13**	2 J	5 U	5 U
	12/7/2006	638.56	3.64	634.92	25 U	25 **U**	**NA**	25 U	**6 J**	25 U	25 U	25 U
	3/22/2007	638.56	3.24	635.32	5 U	**5 U**	**NA**	5 U	**10**	1 J	5 U	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (M9/L):			5	5	NA	5	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 UJ	NA	5 UJ	7	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5U	5 U	NA	5 U	52	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5U	NA	5 U	8	5U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5U	NA	5 U	3 J	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	**5**	NA	**5**	5	**5**	5	**2**
MW-21	3/26/1999	NA	NA	**NA**	1 U	**1 U**	1 U	**2 U**	1 U	**1 U**	1 U	**1 U**
	3/21/2002	642.52	7.70	634.82	25 U	**25 U**	NA	**25 U**	25 U	**25 U**	25 U	**25 U**
	6/12/2002	642.52	7.69	634.83	25 U	**25 U**	NA	**25 U**	25 U	**25 U**	5 BJ	**25 U**
	9/17/2002	642.52	9.50	633.02	5 U	**5 UJ**	NA	**5 UJ**	5 U	**5 U**	5 U	**5 U**
	12/17/2002	642.52	8.23	634.29	5 U	**5 UJ**	NA	**5 U**	5 UJ	**5 U**	5 U	**5 U**
	4/30/2003	642.52	7.91	634.61	25 U	**25 U**	NA	**25 U**	25 U	**25 U**	25 U	**25 U**
	3/30/2004	642.52	7.56	634.96	5 UJ	**5 UJ**	NA	**5 UJ**	5 UJ	5 UJ	5 UJ	**5 UJ**
	3/22/2005	642.52	7.42	635.10	25 U	**25 U**	25 U	**25 U**	25 U	**25 U**	25 U	**25 U**
	3/25/2006	642.52	7.78	634.74	25 U	**25 U**	25 U	**25 U**	25 U	**25 U**	25 U	**25 U**
	3/22/2007	642.52	7.38	635.14	20 U	**20 U**	20 U	**20 U**	20 U	**20 U**	20 U	**20 U**
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	6/12/2002	650.78	15.62	635.16	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	9/17/2002	650.78	17.50	633.28	5 U	**5 UJ**	NA	**5 UJ**	5 U	**5 U**	5 U	**5 U**
	12/17/2002	650.78	16.52	634.26	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	4/30/2003	650.78	17.74	633.04	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	3/30/2004	650.78	15.47	635.31	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	3/22/2005	650.78	15.24	635.54	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	3/25/2006	650.78	15.75	635.03	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**
	3/22/2007	650.78	15.09	635.69	5 U	**5 U**	NA	**5 U**	5 U	**5 U**	5 U	**5 U**

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Groundwater Cleanup Levels (ug/L):			**5**	5	**NA**	**5**	5	5	5	**2**
PW-1	12/21/1998	NA	NA	NA	20 **U**	5 J	20 **U**	**9 BJ**	**270**	**11** J	20 U	20 **U**
	12/27/2001	NA	NA	NA	**15**	**6.2**	**5 U**	**5 U**	**280**	**5.2**	5 U	**5 U**
	3/20/2002	642.82	NM	NM	**11**	5	**5 U**	**5 U**	**320**	3 J	5 U	**5 U**
	6/12/2002	642.82	**NM**	**NM**	**18**	3 J	**5 U**	**5 U**	**380**	2 J	5 U	**5 U**
	9/18/2002	642.82	**NM**	**NM**	**12**	2 J	**5 U**	**5 UJ**	**270**	2 J	5 U	**5 U**
	12/18/2002	642.82	18.43	624.39	**8**	5	**5 U**	**5 U**	**160**	2 J	5 U	**5 U**
	4/30/2003	642.82	20.96	621.86	**11**	2 J	**5 U**	**5 U**	**180**	2 J	5 U	**5 U**
	6/23/2003	642.82	22.41	620.41	**12**	2 J	**5 U**	**5 U**	**190**	2 J	5 U	**5 U**
	9/24/2003	642.82	22.59	620.23	**8**	5 U	**5 U**	**5 U**	**120**	5 U	5 U	**5 U**
	12/3/2003	642.82	21.74	621.08	**8**	2 J	**5 U**	**5 U**	**150**	2 J	5 U	**5 U**
	3/30/2004	642.82	21.80	621.02	**6**	2 J	**5 U**	**5 U**	**150**	5 U	5 U	**5 U**
	6/16/2004	642.82	19.08	623.74	**13**	3 J	**5 U**	**5 UJ**	**380**	2 J	5 U	**5 U**
	9/14/2004	642.82	20.62	622.20	**10**	2 J	**5 U**	**5 U**	**210**	5 U	5 U	**5 U**
	12/14/2004	642.82	21.23	621.59	**6**	2 J	**5 U**	**5 U**	**140**	5 U	5 U	**5 U**
	3/22/2005	642.82	22.65	620.17	**15**	**23**	**5 U**	**5 U**	**200** J	2 J	5 U	**5 U**
	6/7/2005	642.82	21.50	621.32	**10**	2 J	10 **U**	**2 U**	**59**	1 J	10 U	10 **U**
	9/13/2005	642.82	21.73	621.09	**3 J**	0.9 J	**5 U**	**5 U**	**73**	0.5 J	5 U	**5 U**
	12/19/2005	642.82	20.98	621.84	**9**	2 J	**5 U**	**5 U**	**140**	2 J	5 U	**5 U**
	3/26/2006	642.82	21.44	621.38	**4 J**	0.9 J	**5 U**	**5 U**	**76**	0.6 J	5 U	**5 U**
	6/22/2006	642.82	21.28	621.54	**4 J**	1 J	**5 U**	**5 U**	**77**	0.8 J	5 U	**5 U**
	9/14/2006	642.82	8.23	634.59	**9 DJ**	25 U	25 **U**	25 **U**	**230**	25 U	25 U	25 **U**
	12/7/2006	642.82	20.82	622.00	**6 J**	2 J	10 **U**	10 **U**	**160**	1 J	10 U	10 **U**
	3/22/2007	642.82	14.50	628.32	**6 J**	2 J	10 **U**	10 **U**	**170**	1 J	10 U	10 **U**

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

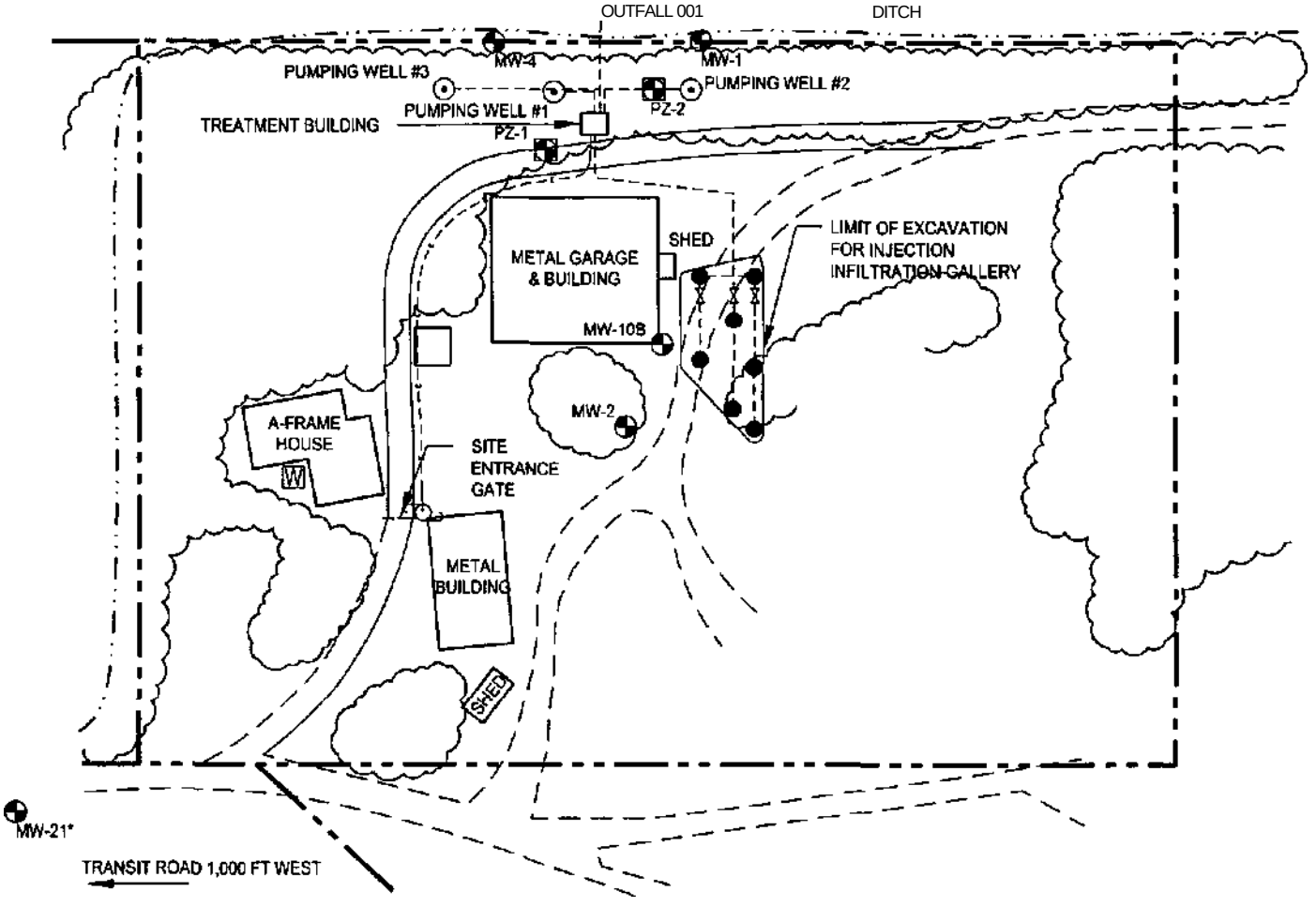
Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)							
		Groundwater Cleanup Levels (ug/L):			**5**	S	NA	**5**	5	5	5	2
PW-2	12/27/2001	NA	NA	NA	**68**	**23**	1.4 J	**5 U**	**960**	4 J	5 U	1.1 J
	3/20/2002	641.34	NM	NM	**24**	**13**	5 U	**5 U**	**720**	2 J	5 U	5 U
	6/12/2002	641.34	**NM**	**NM**	**18**	**10**	5 U	**5 U**	**370**	2 J	5 U	5 U
	9/18/2002	641.34	**NM**	**NM**	**5**	4 J	5 U	**5 UJ**	**160**	5 U	5 U	5 U
	12/18/2002	641.34	17.68	623.66	**12**	**14**	10 U	10 **U**	**280**	10 U	10 U	10 U
	4/30/2003	641.34	16.82	624.52	**11**	6	5 U	**5 U**	**200**	2 J	5 U	5 U
	6/23/2003	641.34	19.41	621.93	**8**	5	5 U	**5 U**	**180**	5 U	5 U	5 U
	9/24/2003	641.34	17.45	623.89	**6**	2 J	5 U	**5 U**	**120**	5 U	5 U	5 U
	12/3/2003	641.34	18.78	622.56	**6**	3 J	5 U	**5 U**	**160**	5 U	5 U	5 U
	3/30/2004	641.34	19.24	622.10	**4 J**	3 J	5 U	**5 U**	**140**	5 U	5 U	5 U
	6/16/2004	641.34	18.58	622.76	**5**	5 U	5 U	**5 UJ**	**120**	5 U	5 U	5 U
	9/14/2004	641.34	18.25	623.09	**5**	4 J	5 U	**5 U**	**160**	5 U	5 U	5 U
	12/14/2004	641.34	17.63	623.71	**8**	5	5 U	**5 U**	**160**	2 J	5 U	5 U
	3/22/2005	641.34	19.33	622.01	**5**	**11**	5 U	**5 U**	**140**	5 U	5 U	5 U
	6/7/2005	641.34	19.40	621.94	**3 J**	2 J	5 U	**5 U**	**70**	1 J	5 U	5 U
	9/13/2005	641.34	19.52	621.82	**3 J**	3 J	5 U	**5 U**	**94** J	2 J	5 U	5 U
	12/19/2005	641.34	17.35	623.99	**1 J**	5 U	5 U	**5 U**	**30**	0.5 J	5 U	5 U
	3/26/2006	641.34	17.22	624.12	**5**	1 J	5 U	**5 U**	54	0.8 J	5 U	5 U
	6/22/2006	641.34	18.59	622.75	**4 J**	2 J	10 U	10 **BL**	**170**	1 J	10 U	10 U
	9/14/2006	641.34	6.75	634.59	3DJ	1 DJ	10 U	10 **U**	**92**	1 DJ	10 U	10 U
	12/7/2006	641.34	6.11	635.23	9DJ	3DJ	10 U	10 **U**	**230**	2 J	10 U	10 U
	3/22/2007	641.34	4.19	637.15	**8 J**	4 J	10 U	10 **U**	**90**	1 J	10 U	10 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Groundwater Cleanup Levels (pg'L):			**5**	**5**	**NA**	**5**	**5**	5	5	**2**
PW-3	12/27/2001	NA	NA	**NA**	**5 U**	**5 U**	**5 U**	**5 U**	**16**	1.7 J	5 U	**5 U**
	3/20/2002	641.11	NM	**NM**	**5 U**	**5 U**	**5 U**	**5 U**	**8**	1 J	5 U	**5 U**
	6/12/2002	641.11	NM	**NM**	**5 U**	**5 U**	**5 U**	**5 U**	**6**	5 U	5 U	**5 U**
	9/18/2002	641.11	NM	NM	**5 U**	**5 UJ**	**5 U**	**5 UJ**	**4 J**	5 U	5 U	**5 U**
	12/18/2002	641.11	19.90	621.21	**5 U**	**5 U**	**5 U**	**5 U**	**4 J**	5 U	5 U	**5 U**
	4/30/2003	641.11	19.46	621.65	**5 U**	**5 U**	**5 U**	**5 U**	**3 J**	5 U	5 U	**5 U**
	6/23/2003	641.11	18.55	622.56	**5 U**	**5 U**	**5 U**	**5 U**	**3 J**	5 U	5 U	**5 U**
	9/24/2003	641.11	20.97	620.14	**5 U**	**5 U**	**5 U**	**5 U**	**2 J**	5 U	5 U	**5 U**
	12/3/2003	641.11	20.28	620.83	**5 U**	**5 U**	**5 U**	**5 U**	**3 J**	5 U	5 U	**5 U**
	3/30/2004	641.11	20.52	620.59	**5 U**	**5 U**	**5 U**	**5 U**	**2 J**	5 U	5 U	**5 U**
	6/16/2004	641.11	19.65	621.46	**5 U**	**5 U**	**5 U**	**5 UJ**	**2 J**	5 U	5 U	**5 U**
	9/14/2004	641.11	20.91	620.20	**5 U**	**5 U**	**5 U**	**5 U**	**2 J**	5 U	5 U	**5 U**
	12/14/2004	641.11	18.33	622.78	**5 U**	**5 U**	**5 U**	**5 U**	**2 J**	5 U	5 U	**5 U**
	3/22/2005	641.11	22.17	618.94	**5 U**	**5 U**	**5 U**	**5 U**	**2 J**	5 U	5 U	**5 U**
	6/7/2005	641.11	20.30	620.81	**5 U**	**5 U**	**5 U**	**5 U**	**5 U**	5 U	5 U	**5 U**
	9/13/2005	641.11	21.52	619.59	**5 U**	**5 U**	**5 U**	**5 U**	**1 J**	5 U	5 U	**5 U**
	12/19/2005	641.11	20.36	620.75	**5 U**	**5 U**	**5 U**	**5 U**	**1 J**	5 U	5 U	**5 U**
	3/26/2006	641.11	22.31	618.80	**5 U**	**5 U**	**5 U**	**5 U**	**1 J**	5 U	5 U	**5 U**
	6/22/2006	641.11	20.72	620.39	**5 U**	**5 U**	**5 U**	**5 U**	**1 J**	5 U	5 U	**5 U**
	9/14/2006	641.11	6.53	634.58	**5 U**	**5 U**	**5 U**	**5 U**	**2 J**	5 U	5 U	**5 U**
	12/7/2006	641.11	7.81	633.30	**6 DJ**	**2 DJ**	**5 U**	**5 U**	**170**	1 J	5 U	**5 U**
	3/22/2007	641.11	5.45	635.66	**7**	**4 J**	**5 U**	**5 U**	**210**	1 J	5 U	**5 U**

Notes:
All concentrations in micrograms per liter (pg/L)
Exceedences of the groundwater cleanup standard are indicated in bold.
NM = Not Measured
NA = Not Available

FIGURES



LEGEND

- MONITORING WELL
- FORMER RESIDENTIAL WELL
- PIEZOMETER WELL
- INJECTION GALLERY PIEZOMETER WELL
- INJECTION GALLERY VALVE
- © PUMPING WELL
- UTILITY POLE
- PROPERTY LINE
- FENCE
- TREELINE
- NEW GRAVEL ROAD
- PRE-EXISTING GRAVEL ROAD
- DITCH
- ELECTRIC & PHONE LINE
- REINJECTION PIPIING

•MOTE: MVY-21 IS 200 FEET WEST Of PROPERTY LINE

SOURCE: ERM C&O SERVICES

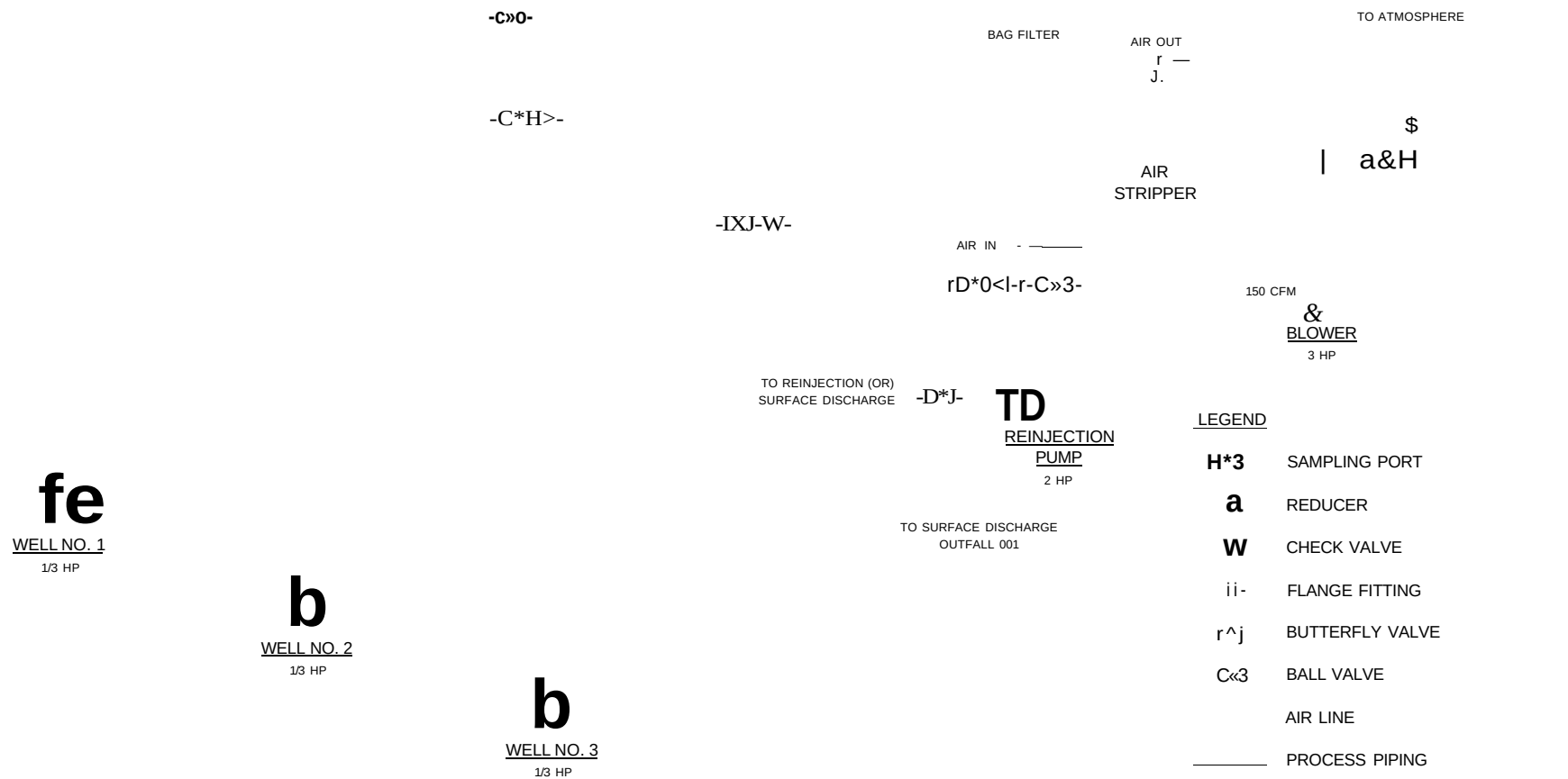
SITE PLAN

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive. Suite I, West Chester. PA 19380

SCALE IN FEET	DATE	FIGURE
80	07-25-06	1

ECOR Solutions, Inc.



GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET

DATE
09-02-05

FIGURE
2

SOURCE: ERM CM) 5ERVCES

80

Figure 3
Byron Barrel and Drum Site
Influent Concentration (Total VOCs) Vs. Time

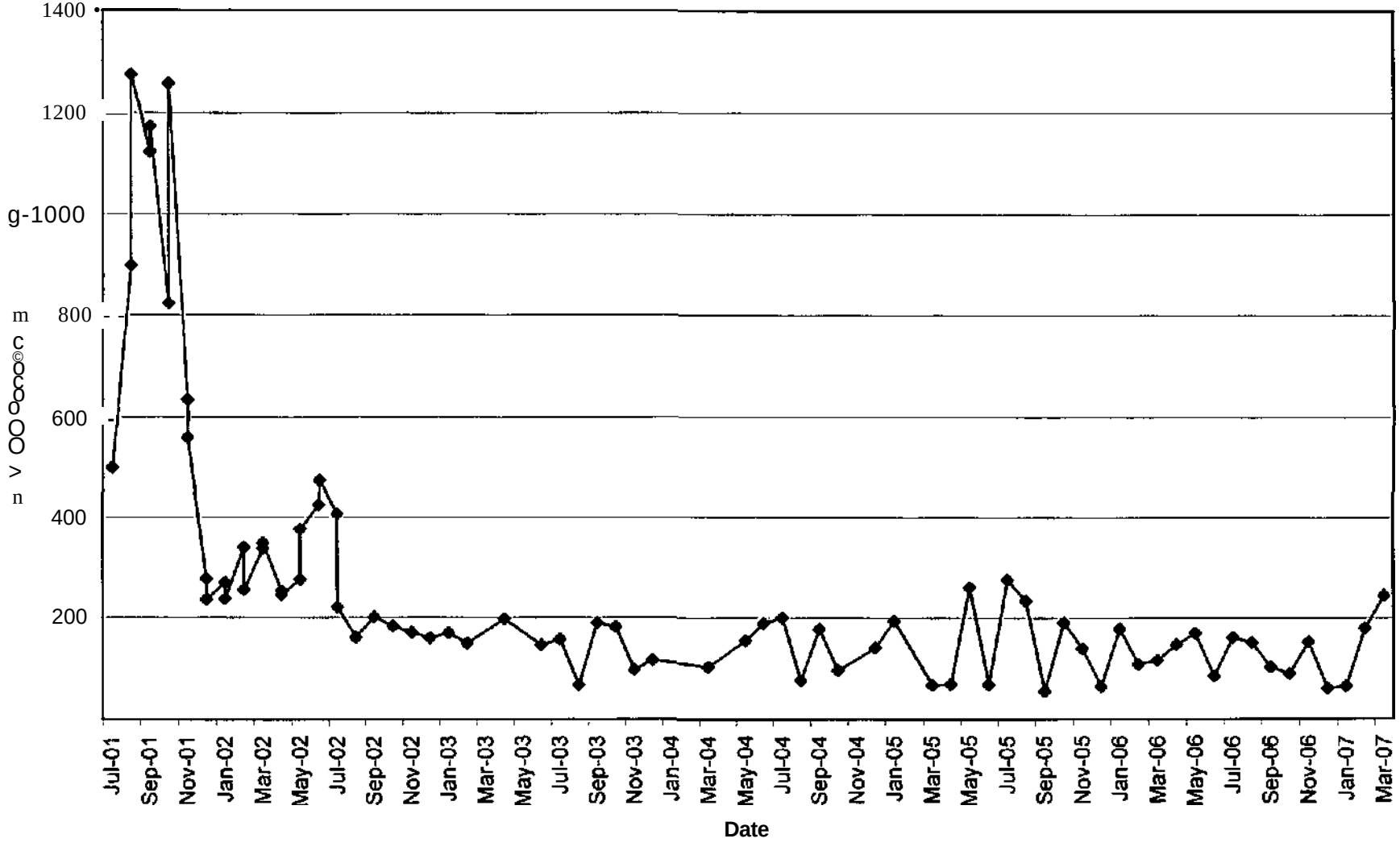
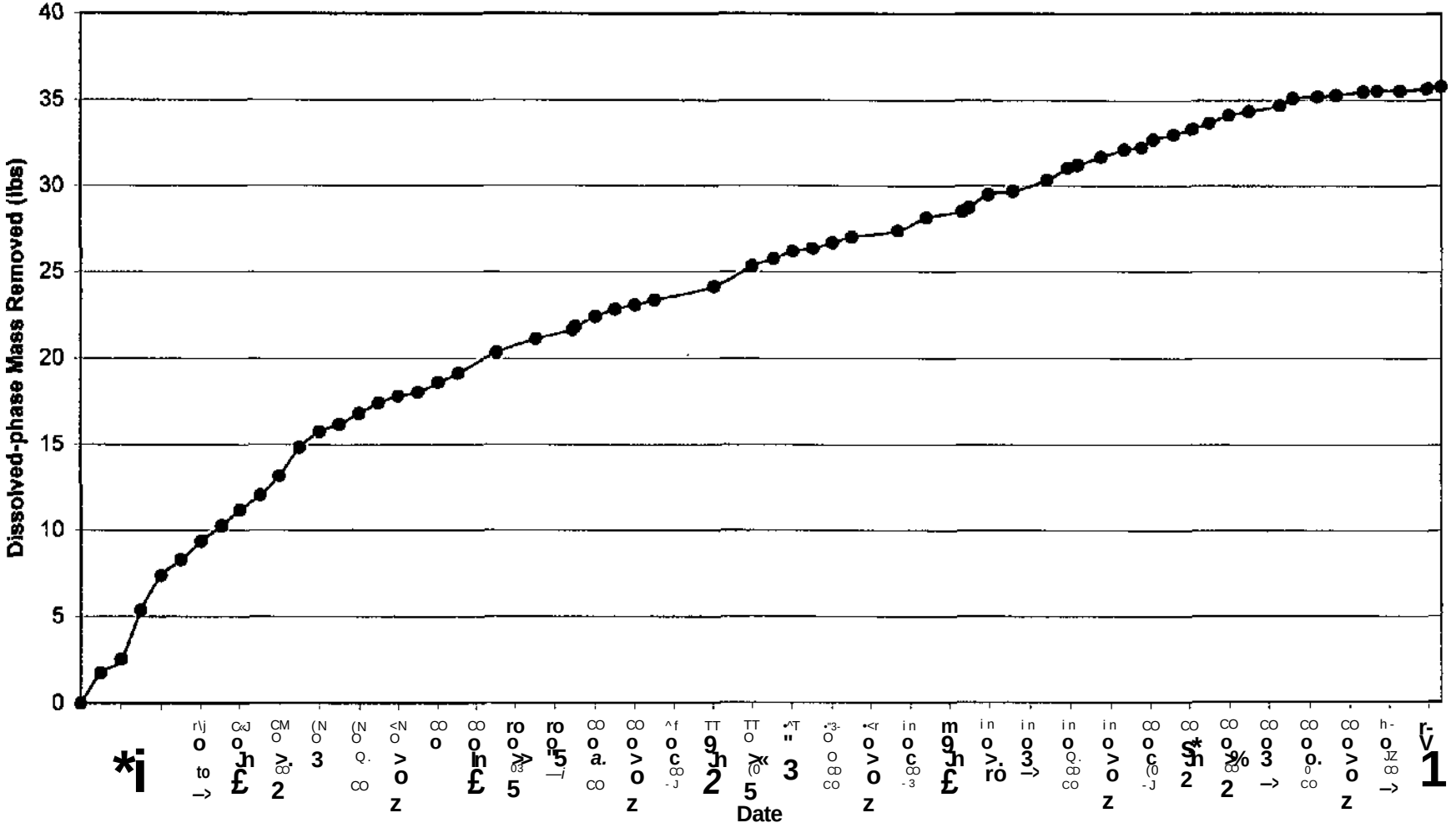


Figure 4
Byron Barrel and Drum Site
Cumulative Dissolved-phase Mass Removed (Total VOCs)



N

A

1,1-DCA	2J
1,1-DCE	4J
1,1,1-TCA	100
TCE	2d

1,1-DCA	5U
1,1-DCE	5U
1,1,1-TCA	10
TCE	5U

1,1-DCA	7
1,1-DCE	4J
1,1,1-TCA	210
TCE	U

1,1-DCA	6J
1,1-DCE	2J
1,1,1-TCA	170
TCE	U

1,1-DCA	8 J
1,1-DCE	4 J
1,1,1-TCA	90
TCE	1 J

1,1-DCA	5 U
1,1-DCE	5 U
1,1,1-TCA	6
TCE	5 U

1,1-DCA	SU
1,1-DCE	5U
1,1,1-TCA	5U
TCE	5U

1,1-DCA	20 U
1,1-DCE	20 U
1,1,1-TCA	20 U
TCE	20 U

MW-4
OUTFALL 001
MW-1
DITCH
PUMPING WELL #3
PUMPING WELL #1
PUMPING WELL #2
PZ-2
PZ-1
TREATMENT BUILDING
METAL GARAGE & BUILDING
SHED
MW-10B
MW-2
A-FRAME HOUSE
SITE ENTRANCE GATE
METAL BUILDING
SHED
LIMIT OF EXCAVATION FOR INJECTION INFILTRATION GALLERY
MW-21*
TRANSIT ROAD 1,000 FT WEST

LEGEND

® MONITORING WELL
FORMER RESIDENTIAL WELL
PIEZOMETER WELL
INJECTION GALLERY PIEZOMETER WELL
INJECTION GALLERY VALVE
© PUMPING WELL
UTILITY POLE
TREEUNE
NEW GRAVEL ROAD
PRE-EMSTNG GRAVEL ROAD
FENCE
DITCH
ELECTRIC & PHONE UNE
REINJECTION PIPIING

1,1-DCA	1,1-DICHLOROETHANE
1,1-DCE	1,1 DtCHLOROETHENE
1,1,1-TCA	1.1.1-TWCHLOROETHANE
TCE	TWCHLOROETHENE
U	iOCATES THE PARAMETER WAS NOT DETECTED AT OR ABOVE REPORTED UHT
J	E8TMATEDVALUE
	EXCEEDENCES
D	DILUTED SAMPLE

*NOTE MW-21 IS 200 FEET WEST OF PROPERTY UNE

SOURCE BW CU SBMCES

GROUNDWATER QUAUTY MAP
22 MARCH 2007
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECO& Solutions
1076 Antow Drtv*. & * » I, WMt Chaster, PA 19880

SCALE W FEET | DATE 06-1&O7 | FIGURE 60

Solutions, Inc.

APPENDIX A
Field Notes

Field Data

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum **Date: ?-,?;?-«'"**

Job #: 01501.002

Sample ID: */rsw-Y-l /s^-jf*

Well ID: *y\uJ-j* Time onsite: Time Offsite:

Samplers: / *X* //'«»* -

Depth of Well (from top of casing) *it,5$* Time: *uze*

Static water level (from top of casing) *X2[1]/* Time: *t&3&*

Purging Viet hod:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate(mL/min)/ purge volume (mL)	Temp. °C	**ORP mV**	pH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
/sY>"	*j$/&>/»*	//.?	*si*	*l.fo*	A y	*2[L]n*	^ 7 7
/oSo		*lt.l*	*S3*	*~].</o*	*O.J*	***.-?:r**	*a-y*
10S<		*H.f*	*$y~*	*l.[L]/l*	***M***	***3.. 2****	***£6<?***
(I 00		***U.c***	*sri*	*l.K*	***c<i***	*Z/9*	*6 S3*
ft of	**1**	***nn***	***11***	*7.yy*	***&-i***	***3../?***	***I - O "***
a to		*l i ' **	***ve***	*1-13*	*0<i*	*2,e3*	***£r****
I I < I	v	*it. J*	****n***	*n-[L]H*	***0-1***	*hi<?*	***£<rr***

Sampling:

Time of Sample Collectio *tus-*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: *jw/cksf/ £#**

Sample Description: *CUi/*

Free Product?	Yes	**No X**	Descript.:
Sheen?	Yes	**No ^**	Descript.:
Odor?	Yes	No *	Descript.:

Comments:

*/^J//*JJ> Jfa/f< -TAf<f*J /hcv'V*

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: *3-32~*->*

Job #: 01501.002

Sample ID *fT)»J ' ' ^ / f a -21*

Well ID: *Mw- /* Time onsite: Time Offsite:

Samplers: *f.tt*f<* /T.S*""-*

Depth of Well (from top of casing) *j f . t f* Time: *i»if*

Static water level (from top of casing) y, /<? Time: *ofs**

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate(mUmin)/ purge volume (mL)		Temp. °C	ORP mV	pH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
foo&	*3o/»i/+**		*/ / . **	* /	7 - /3	*t.f*	*Zs**	*~)1C*
joof			*16.9*	*¥1*	7 - / 7	*Q*?*	*a.f0*	*7J?J"*
*10*0*			*10.1*	***s****	7 „ / f	*o.f*	*2.Y0*	*7A**
to IS			*it-i*	*S3*	7 - ^	*o,<*	*2,3S*	*7 / 6*
foZo			*jo.z*	***sv***	7,^3	*o*s~*	*2,}£*	*7***
iffStf			*jo,7*	*Ss*	7 - ^ r	*0'S^*	*2.3/*	***7/r***
*/C3**		\ J	*fCK*	*S'C*	***I**r***	***e.f***	*2>*sr*	*J to*

Sampling:

Time of Sample Collectio */ o 3°*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	6260 X 503 Other:

Observations:

Weather/Temperature:

Sample Description:

Free Product?	Yes	No	Descript.:
Sheen?	Yes	No	Descript.:
Odor?	Yes	No	Descript.:

Comments:

***f_HM JvS JX**"**

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum

Date: :?-*-> *TJ

Job #: 01501.002

Sample ID MK- /oS'f /(^W •?/

Well ID: /v\.tv-/e6

Time onsite: Time Offsite:

Samplers: A t.4t#* **A** /Vd*—

Depth of Well (from top of casing) ze.jtf Time: t^ef

Static water level,(from top of casing) $-99 Time: jijo

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tes>ts:

Time	Flowrate(ml_/min)/ purge volume (mL)	Temp. °C	ORP mV	pH 5td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
jl3o	¥Or*-/tw	J3.3	S3	?.J9	&</	2.BY	tif
V3f		1JL-H	SI	l.#	o-y	X$3	^
flVc?		/Z1	fO	7-19	OA/	2.3*	£1C
Jf¥f		12/	sre?	7*19	$4	2.1*7	£7^
11*0		/A?	£&	1.1°	#4	W>	£lY
Htf		/A 7	S~0	7*3*	o-Y	2*xr	^ 7 5 "
I£e0	" ^	It,a	J°	7. J7Y	£>A/	2.7*	ay

Sampling:

Time of Sample Collectio */JQ°*

Collection Method:	*Analyses:*	*Analytical Method:*		
X Dedicated pump	X VOCs	8260 X 503	Other:	

Observations:

Weather/Temperature: *C/Q^J £7*

Sample Description: *d/-*

Free Product?	Yes	**No** *Y-*	Descript.:
Sheen?	Yes	**No** *	Descript.:
Odor?	Yes	**No** ✂	Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum **Date:** g-f?-*'?

Job #: 01501.002

Sample ID: /^ u .jUn0~rM - 9 /jr^ - z f

Well \U*K' /j*jfg»'T**i Time onsite: Time Offsite:

Samplers: ***P-t*^ /% Ate*~*** , J O ,&<>

Depth of Well (from top of casing) 3f.Q Time: IQ£O

Static water level (from top of casing) /$•&? Time: /?f>9

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)	Temp. °C	ORP mV	pH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
u/f	%<?*#//**;	>i-i	-39	y.te	£>.X	Z61	3*3
I^ZP	I	ii.f	-11	-).(&	0-7-	2.^	310
n*f	/	n+	-JO	7.77	0.?~	a.n	311
/Z3[0]		ii, 1	-So	1-81	a-X	as*?	3/7
lair		/i,i	-S'I	i-ei	f-~>~	3L.2*~	3/1
lite		//J	-Xz>	j.ef	0-X	2.33	3/<f
j i i f	1	H-i	-J7	7,3J	o,z~	J.J*	3V7

Sampling:

Time of Sample Colleclio */Zl'/S'*

Collection Method:		*Analyses:*		*Analytical Method:*		
_X_	Dedicated	pump	X VOCs	8260 X_	503	Other

Observations:

Weather/Temperature: ^A^{//J} S& *

Sample Description: C ^

Free Product? Yes No /\ Descript.:

Sheen? Yes No -A Descript.:

Odor? Yes No '^ Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Sit©: Byron Barrel and Drum **Date:** *3-22-e7*

Job #: 01501.002

SampleID: /H«/-,3/-<?/V~ <x.t

Well ID: *fAUJ^Lf* Time onsite: Time Offsite:

Samplers: *r ' /-rs**^ W* JjS£*

Depth of Well (from top of casing) *&r)t 9Q* Time: /33-*"

Static water level (from top of casing) *7>3&* Time: *iasf*

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min)/ purge volume (mL)	Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
ISosf	*tyOri/ji'tJ*	**8-~>**	^?/	*y.31*	*/.*.*	y.?&	*/ 96o*
/J'»		**gn**	*' * }*	*7J3*	/.A	# * ?	*/S¥°*
13 i f		**gn**	**&**	7-3J"	*h**	*f.te*	*/§¥o*
}S2o		*8.7*		*7,T?*	A ^	*i.t**	*fB3°*
111?		**$>e**	*-£1*	*7.W*	A A	*H.€**	*J8?°*
)23>c	J	**$<s**	*-21*	*•7.J8*	*(<K*	*if.4**	*/A***

Sampling:

Time of Sample Collectio */3S[a]*

Collection Method:	*Analyses:*	*Analytical Method:*
X _ Dedicated pump	X VOCs	8260_X_ 503____Other

Observations:

Weather/Temperature: *j?Aiv J~6 **

Sample Description: *e l f*

Free Product?	Yes	No -^	Descript.:
Sheen?	Yes	No	Descript,:
Odor?	Yes	No ^~^	Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	pH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
PW-1/GW.2'	*13*0*	*1.8*		*y.te*	***0*>***	*i. yr*	***I"L/***
PW-2/GW.2I	***I3i****	*i.n*	-/y	***I."***	*oS*	*i,n*	7«
PW-3/GW <2/	***I2&***	***<j<7***	***-2***	*l.tY*	***0,1***	*1.SX*	***S'8***

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

ECOR Solutions, Inc
Byron Barrels Drum Site
Groundwater Elevations

Operator: Paul Little

Date: 3-22-07

	DTW	TOC f^ation	GW Elevation	ID	WC, ft.
Pumping Wells					
PW-1	14.50	642.82	628.32	-	-
PW-2	4.19	641.34	637.15	-	-
PW-3	5.45	641.11	635.66	-	-
Monitoring Wells					
MW-1	4.19	639.63	635.44	11.65	7.46
MW-2	10.36	646.36	636.00	15.10	4.74
MW-4	3.24	638.56	635.32	11.50	8.26
MW-10B	8.44	644.44	636.00	20.35	11.91
MW-21	7.38	642.52	635.14	27.90	20.52
Residential	15.09	650.78	635.69	35.17	20.00
Piezometers					
PZ-1	7.12	643.11	635.99	27.28	20.16
PZ-2	6.64	642.39	635.75	27.29	20.65

*"Took f t * ! ' * Ar JJ.jA'iT ft*^ fie/n**"iAl*

APPENDIX B
Data Validation Report

Project Byron Barrel and Drum Site
Laboratory: Severn Trent Laboratories
Sample Delivery Group: A07-2683/A07-2746
Fraction: Organic
Matrix: Aqueous
Report Date: 6/18/2007

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Severn Trent Laboratories.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HVV-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

X	>	Data Completeness
X	i	Chain of Custody Documentation
X	«i	Holding Times
X	»	Instrument Performance
X	i>	Initial and Continuing Calibrations
X	»	Laboratory and Field Blank Analysis Results
X	i»	Surrogate Compound Recoveries
X	«»	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	.•	Laboratory Control Sample Results
X	.•	Internal Standard Performance
X	*	Qualitative Identification
X	«>	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved Byf

Shawne^^ Rodgers
President

*tfoktr**

Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDING TIMES

The holding times were met for all analyses.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

The positive methylene chloride result reported for sample INF-7S/GW is qualitatively invalid due to the presence of this compound in associated laboratory method blank. USEPA protocol requires positive results for common contaminants, such as methylene chloride, that are less than or equal to ten times the associated blank contamination level, to be considered qualitatively invalid. The result has been replaced by the quantitation limit.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX *SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

Duplicate samples MW-1-9/GW-21 and DUP-9/GW21 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Table 2. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There ate no USEPA-established acceptance criteria for field duplicate samples. EDQ uses and internal acceptance criteria of twenty percent for volatile detected compounds to evaluate field duplicate samples.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

13.0 *QUANTTTATION/EEPORTING LIMITS*

The following samples were re-analyzed at dilutions for volatile organic compounds. The reanalyses were performed because the responses for volatile compounds exceeded the linear range of the GC/MS instrument for the initial undiluted analyses. The affected results were reported from the dilution analyses. All other results have been reported from the initial analyses.

Sample	Dilution Factor	Compound reported from Dilution
EFF-44/GW	4.0	1,1,1-Trichloroethane
PW-2/GW-21	4.0	1,1,1-Trichloroethane
PW-3/GW-21	4.0	1,1,1-Trichloroethane

The samples presented below were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples-

Sample	Dilution Factor
EFF^4/GW	2.0
MW-1-9/GW-21	2.0
MW-21-9/GW-21	4.0
PW-l/GW-21	2.0
PW-2/GW-21	2.0

As required by USEPA protocol all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition. Promulgated Updates u, HA, and HI, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, and revisions

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples Collected March 2007
Severn Trent Laboratories Sample Delivery Group A07-2683

SAMPLE I.D.	ABORATOR I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED VOC
EFF^4/GW	A7268302	3/21/2007	Groundwater	X
INF-7S/GW	A7268301	3/21/2007	Groundwater	X
Trip Blank	A723B303	3/21/2007	Trip Blank	X

VOC: Volatile Organic Compounds

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples Collected March 2007
Severn Trent Laboratories Sample Delivery Group A07-2746

SAMPLE I.D.	ABORATOR I.D	DATE COLLECTED	MATRTX	ANALYSES PERFORMED VOC	TSS
DUP-9/GW-21	A7274603	3/22/2007	Groundwater	X	
MW-1-9/GW-21	A7274601	3/22/2007	Groundwater	X	
MW-10B-9/GW-21	A7274604	3/22/2007	Groundwater	X	
MW-21-9/GW-21	A7274605	3/22/2007	Groundwater	X	
MW-4-9/GW-21	A7274602	3/22/2007	Groundwater	X	
MW-RESIDENTIAL-9/GW2	A7274606	3/22/2007	Groundwater	X	
PW-l/GW-21	A7274607	3/22/2007	Groundwater	X	
PW-2/GW-21	A7274608	3/22/2007	Groundwater	X	
PW-3/GW-21	A7274609	3/22/2007	Groundwater	X	
TRIP BLANK	A7274610.	3/22/2007	Trip Blank	X	

VOC: Volatile Organic Compounds
TSS: Total Suspended Solids

Table 2 Field Duplicate Sample Results for Organic Analyses
DupUcate Samples MW-1-9/GW-21 and DUP-9/GW-21

	MW-1-9/GW-21	DUP-9/GW-21 <Mg/L)	RPD	Comments
1,1-Dichloroethane	2	**2**	**0**	
1,1-Dichloroethene	4	**3**	**29**	
Toluene	1	**ND**	**NC**	
1,14-TrichIoroethane	100	**86**	15	
Trichloroethene	2	**2**	0	

STL

DATA QUALIFIER PAGE

These definitions are provided in the event (he *data in this report requires the use of one or more* of the *qualifiers. Not all qualifiers defined below are necessarily used In the accompanying data package.*

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response Is assumed, or when the data indicates the presence of a compound that meets the Identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the anafyte Is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the Instrument for that specific analysis.
D	This flag identifies all compounds Identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values Is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product
[1]	Indicates coelution.
"	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the Instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery Is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of Interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition Is less than 0.995.

BOOR SCSLOTTCNS
BOOR SQLUITCNS - BYRCN BARREL & DRUM S H E
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

EFF-44/GW

Lab Name: SIL Buffalo Contract:

Lab Code; RECNY Case No.: _____ SAS No.: SD3 No.:

Matrix: (soil/water) WATER Lab Sample ID: A7268302

Sample wt/vol: 5.00 (g/iriL) ML lab File ID: N5957.RR

Level: (lcw/med) I£W Date Samp/Recv: 03/21/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 04/04/2007

GC Column: ZB-624 ID: 0.25 *(rem)* Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/lfcr) UG/L	Q
75-34-3	1,1-Dichlorcethane	5.0	U
75-35-4	1,1-Dichloroetbene	5.0	U
156-59-2	cis-l^-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichlorcethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

f

ECDR SOLUTIONS
ECER. SOLUTIONS - BYRON BARREL & DRDM SITE
UNISYS - MBHTD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

TNF-7S/GW

Lab Name: STL Buffalo Contract:

Lab Code: RBCNY Case No.: _____ SAS No.: SDGNb.:

Matrix: (soil/water) WATER Lab Sarrple ID: A7268301

Sarrple wt/vol: 5.00 (g/rriL) ML Lab File ID: N5958.RR

Level: (low/msd) LOW Date Samp/Recv: 03/21/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 04/04/2007

GC Column: ZB-624 ID: 0.25 (rrm) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
75-34-3	1,1-Dichloroethane	10 a	6.2	J
75-35-4	1,1-Dichloroethene		1.5	J
156-59-2	cis-l,2-Dichloroethene		10	U
75-09-2	Methylene chloride			
71-55-6	1,1,1-Trichloroethane		-2ifl	
79-01-6	Trichloroethene		10	U
108-88-3	Toluene		10	U
75-01-4	Vinyl chloride		10	U

ec

ft

Report f(0YYV AALAK&\

smn 6/11/2007

BOOR SOLUTICNS
ECCR SCOITICNH - BYRCN BARREL & DRLM SITE
UNISYS - MEIB3D 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

INF-7S/GW DL

Lab Name: SIX, Buffalo Contract:

Lab Cede: RBCNY Case No.: __ SAS No.: SDGNb.:

Matrix: (soil/water) WATER Lab Sarrple ID: A7268301DL

Sarrple wt/vol: 5.00 (g/mL.) ML Lab File ID: N5982.RR

Level: (low/med) LOW Date Sarnp/Recv: 03/21/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 04/04/2007

GC Column: ZB-624 ID: 0.25 (nm) Dilution Factor: 4.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	COSICENTRATICN UNITS: (UQ/L or uq/Ka) UG/L	Q
75-34-3	1,1-Dichloroethane	8.1	DJ
75-35-4	1,1-Dichlorcethene	20	U
156-59-2	cis-l$_r$2-Dichloroethene	20	U
75-09-2	Methylene chloride	4.1	BDJ
71-55-6	1,1.1-Trichloroethane	230	„ *ST'jft*
79-01-6	Trichloroethene	20	U
108-88-3	Toluene	3.3	DJ
75-01-4	Vinyl chloride	20	U

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ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 OCMPOUNDS
ANALYSIS DATA SHEET

Client No.

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lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: _____ SAS Mb.: SD3 No.:

Matrix: (soil/water) WATER Lab Sample ID: A7268303

Sartple wt/vol: 5.00 (g/triL) ML Lab File ID: N5956.RR

Level: (low/msd) LCW Date Sanp/Recv: 03/21/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 04/04/2007

GC Column: ZB-624 ID: 0.25 (ram) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(t(L)

CAS NO.	CCMPC03D	CCNCENTRATICN UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	u
108-88-3-	Toluene	5.0	u
75-01-4	Vinyl chloride	5.0	u

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ECOR SQLUTICNS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

DUP-9/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) MATER Lab Sample ID: A7274603

Sarrple wt/vol: 5.0Q (g/rriL) ML Lab File ID: G2010.RR

Level: (lcw/ned) LOW Date Sarrp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/28/2007

GC Column: ZB-624 ID: 0.18 (nm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) U3/L	
75-34-3	1,1-Dichloroethane	2	J
75-35-4	1,1-Dichloroethene	3	J
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	u
71-55-6	1,1,1-Trichloroethane	86	
79-01-6	Trichloroethene	2	J
75-01-4	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichloroethane	5	u
107-06-2	1,2-Dichloroethane	5	u
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	Bronrjdic^oronietharje	5	u
124-48-1	Dibro^ochlorcme thane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-Dichlorobenzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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ECOR SOLUTIONS - ETCRCN BARREL. & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-1-9/GW-21

lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDGNb.:

Matrix: (soil/water) WATER Lab Sanple ID: A7274601

Sanple wt/vol: 5.00 (g/mL) ML Lab File ID: G1986.RR

Level: (low/msd) LOW Date Sanp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/28/2007

GC Column: ZB-624 ID: 0.18 (tm) Dilution Factor: 2.00

Soil Extract Volume; (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroetbane	2	J
75-35-4	1,1-Dichloroetbene	4	J
75-09-2	Methylene chloride	10	u
108-88-3	Toluene	1	J
71-55-6	1,1,1-Trichloroethaiie	100	
79-01-6	Trichloroethene	2	J
75-01-4	Vinyl chloride	10	u
71-43-2	Benzene	10	u
1330-20-7	Total Xylenes	30	u
108-90-7	Chloroberizene	10	u
79-:00-5	1A,2-Trichloroethane	10	u
107-06-2	1,2-Dichloroethane	10	u
127-18-4	Tetrachloroethene	10	u
67-66-3	Chloroform	10	u
75-27-4	Brairxh\chlorc*rethane	10	u
124-48-1	Dibrcmochlorarethane	10	u
78-93-3	2-Butanane	20	u
56-21-5	Carbon TptrarHlaridp	10	u
95-50-1	1,2-Dichlorobenzene	10	u
106-46-7	1,4-Dic^orobenzene	10	u

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AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-10B-9/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER lab Sanple ID: A7274604

Sample wt/vol: 5.00 (g/mL) ML. Lab File ID: G1991.RR

Level: (low/med) LOW Date Samp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/28/2007

GC Column: ZB-624 ID: 0.18 (ram) Dilution Factor:_____1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or *vg/Yg)* *XJ3/L*	
75-34-3	-1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	u
108-88-3	Toluene	5	u
71-55-6	1,1,1-Trichloroethane	6	
79-01-6	Trichloroethene	5	u
75-01-4	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichloroethane	5	u
107-06-2	1,2-Dichloiosthane	5	u
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75 27-4	Brcm^chcnloromethane	5	u
124-48-1	Dibrcnicchloramethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-Dichlorobenzene	5	u
106-46-7	1,4-Dichlorabenzene	5	u

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ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUBXJS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-21-9/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RB3JY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sarrple ID: A7274605

Sarrple wt/vol: 5.00 (g/rriL) ML Lab File ID: G1992 .BR

Level: (low/med) LCW Date Sarrp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/28/2007

GC Column: ZB-624 ID: Q.18 (rim) Dilution Factor: 4.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	COCENTIRATION UNITS: (ug/L or ug/Kg) U3/L	
75-34-3	1,1-Dichloroethane	20	U
75-35-4	1,1-Dichloroethene	20	u
75-09-2	Methylene chloride	20	u
108-88-3	Toluene	20	u
71-55-6	1,1,1 Trichloroethane	20	u
79-01-6	Trichloroethene	20	u
75-01-4	Vinyl chloride	20	u
71-43-2	Benzene	20	u
1330-20-7	Total Xylenes	60	u
108-90-7	Chlorobenzene	20	u
79-00-5	lA/2-Trichloroethane	20	u
107-06-2	1,2-Dichloroethane	20	u
127-18-4	Tetrachloroethene	20	u
67-66-3	'—Chloroform	20	u
75-27-4	Bronodicihlcaxmethane	20	u
124-48-1	DzUorornochlorcmethane	20	u
78-93-3	2-Butanone	40	u
56-23-5	Carbon Tetrachloride	20	u
95-50-1	1,2-mchlorobenzene	20	u
106-46-7	1,4-Dichlorobenzene	20	u

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ECOR SOLUTIONS - BYPQN BARREL & DRUM SI1E
A3JEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-4-9/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SD3 No.:

Matrix: (soil/water) WATER Lab Sanple ID: A7274602

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G1987.RR

Level: (low/med) LOW Date Sanp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/28/2007

GC Column: ZB-624 ID: 0.18 (irm) Dilution Factor: 1.00

Soil Extract Volume; (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION USHTS : (ug/L or ug/Kg) U3/L	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	u
75-09-2	Methylene chloride	5	u
108-88-3	Toluene	5	u
71-55-6	1,1,1-Trichloroethane	10	
79-01-6	Trichloroethene	1	J
75-01-4	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	lA,2~Tricbloroethane	5	u
107-06-2	1,2-Dichloroethane	5	u
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	BronDdicnloraTethane	5	u
124-48-1	DibroTnochloronethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-DidxLorobenzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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AQUEOUS ASP 2000/8260 - SELBCT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-RESIDENTIAL-9/GW2

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7274606

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G1993.RR

Level: (low/rasd) LOW Date Sanp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 03/28/2007

GC Column: ZB-624 ID: 0.18 (rrm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CDNCENTRATICN UNITS: (ug/L or ug/Kg) UG/L	
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	u
108-88-3	Toluene	5	u
71-55-6	1,1,1-Trichloroethane	5	u
79-01-6	Trichloroethene	5	u
75-01-4	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichloroethane	5	u
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	Bxujiu<JlcMui.uufc:LiJdlJe	5	u
124-48-1	Dibrcnochlorcnethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-Dichlorobsnzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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BOOR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

PW-l/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY CaseNo.:_____ SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7274607

Sanple wt/vol: 5.00 (g/miL) ML Lab File ID: G2019.RR

Level: (low/ned) LpW Date Samp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge-. N Date Analyzed: 03/29/2007

GC Column: 2B-624 ID: 0.18 <nm) Dilution Factor: 2.00

Soil Extract Volume: CuL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) U3/L	Q
75-34-3	1,1-Dichloroethane	6	J
75-35-4	1,1-Dichloroethene	2	J
156-59-2	cis-l^-Dichloroethene	10	U
75-09-2	Methylene chloride	10	U
108-88-3	Toluene	10	U
71-55-6	l,lA-Trichloroethane	170	
79-01-6	Trichloroethene	1	J
75-01-4	Vinyl chloride	10	U

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ECOR SOLUTIONS - BYRON BARREL & DKOM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

PW-2/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SD3 No.:

totrix: (soil/water) WATER Lab Sample ID: A7274608

Sample wt/vol: 5.00 Cg/mL) ML Lab File ID: G1995.RR

Level: (low/med) IOW Date Samp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/28/2007

GC Column: 2B-624 ID: 0.18 {mm) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	• (ua/L or uct/Kcr) UG/L	Q
75-34-3	1,1-Dichloroethane	8	J
75-35-4	1,1-Dichloroethene	4	J
156-59-2	cis-l,2-Dichloroethene	10	u
75-09-2	Methylene chloride	10	u
108-88-3	Toluene	10	u
71-55-6	1,1,1-Trichloroethane	—22Q—	
79-01-6	Trichlorcethene	1	J
75-01-4	Vinyl chloride	10	u

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AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

FW-2/GW-21 DL

Lab Name; STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7274608DL

Sample wt/vol: 5.00 (g/niL) ML Lab File ID: G2Q17.RR

Level: (low/ned) LCW Date Sanp/Recv: 03/22/2007 Q3/22/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 03/29/2007

GC Column: ZB-624 ID: 0.18 {im} Dilution Factor: 4.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CCNGENTRATrON UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5	DJ
75-35-4	l$_f$l-Dichloroethene	20	U
156-59-2	cis-l,2-Dichloroethene	20	U
75-09-2	Methylene chloride	20	U
108-88-3	Toluene		
71-55-6	1,1,1-Trichloroethane	***90***	***rffr***
79-01-6	Trichloroethene	20	U
75-01-4	Vinyl chloride	20	U

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ECCR SOLUTIONS - BYRCN BARREL fc DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

PW-3/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A72746Q9

Sarrple wt/vol: 5.00 (g/mL.) ML Lab File ID: G1996.RR

Level: (low/med) LOW Date Samp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 03/28/2007

GC Coluitn: ZB-624 3D: 0.1B (rrm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CCNCEWIRAXICN LHSHTS: (up/L or uet/Kcr) UG/L	Q
75-34-3	1,1-Dichloroethane	7	
75-35-4	1,1-Dichloroethene	4	J
156-59-2	cis-l,2-Dichloroethene	5	U
75-09-2	Methylene chloride	5	**u**
108-88-3	Toluene	5	**u**
71-55-6	1,1,1-Trichloroethane	3i0	
79-01-6	Trichloxoethene	1	J
75-01-4	Vinyl chloride	5	**u**

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ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DA1A SHEET

Client No.

PW-3/GW-21 DL

Lab Name: STL Buffalo Contract:

lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) MATER Lab Sample ID: A7274609DL

Sanple wt/vol: 5.00 (g/mL) ML Lab File ID: G2018.RR

Level: (lcw/ned) LOW Date Samp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 03/29/2007

GC Column: ZB-624 TO: 0.18 (nm) Dilution Factor: 4.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

COCEWTRATICN UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) tJG/L	Q
75-34-3	1,1-Dichlorcethane	7	DJ
75-35-4	1,1-Dichlorcethene	3	OJ
156-59-2	cis-l,2-Dichlorcethene	20	U
75-09-2	Methylene chloride	2	DJ
108-88-3	Toluene	20	
71-55-6	1,1,1-Trichloroethane	210	
79-01-6	Trichloroethene	20	U
75-01-4	Vinyl chloride	20	U

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ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

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Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sarrple ID: A7274610

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G1997.RR

Level: (low/med) LOW Date Sanp/Recv: 03/22/2007 03/22/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 03/26/2007

GC Column: ZB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: <UL) Soil Aliquot Volume: CuL)

CAS NO.	COMPOUND	CCNCENTRATICN UNITS: (ug/L or ug/Kg) XJG/L	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	Chlorobenzene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromodichlororn ethane	5	U
124-48-1	Dibroniochlorcrrethane	5	U
78-93-3	2-Butanone	10	U
56-23-5	Carbon Tetrachloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

3/28/2007

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Crjemistry Analysis

Client Sample No.

FW-l/GW-21

lab Name: STL Buffalo Contract:

lab Code: RECNY Case No. • SAS No.: SDG No.:

Matrix (soil/water): WATER Lab Sample ID: A7274607

% Solids: 0.0 • Date Sartp/Recv: 03/22/2007 03/22/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			160.2	03/26/2007

Garments:

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

PW-2/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No. SAS No.: SDG NO.:

Matrix (aoil/vater): WATER Lab Sample ID: A7274608

% Solids: 0.0 Date Sanp/Recv: 03/22/2007 03/22/2007

E&rameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	NE/L	4.0	D			160.2	03/26/2007

Comments:

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

PW-3/GW-21

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix (soil/water): WATER Lab Sarnple ID: A7274609

% Solids: 0.0 Date Sarnp/Recv: 03/22/2007 03/22/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			160.2	03/26/2007

Conments:

Environmental
Construction
Operations &
Remediation

ECOR Solutions, Inc.
1075 Andrew Drive. Suite 1
West Chester. PA 19380
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OCT 1 7 2007

5 October 2007

ECOR
Solutions, Inc.

Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866

Re: Second Quarter Report 2007
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the Second Quarter of 2007. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

Matthew Lapp
Project Engineer

cc: Mr. John Grathwol - NYSDEC
Mr. Chris Rockwell - Garlock Sealing Technologies
Mr. Terry Etter, P.E. - Unisys Corporation
Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)
Keith Rapp - ECOR Solutions
Project File - ECOR Solutions

FINAL

BYRON BARREL & DRUM SITE
QUARTERLY REPORT
SECOND QUARTER 2007

Byron Barrel & Drum Site
Area 2
Byron, New York

28 September 2007

Prepared for;

BYRON BARREL & DRUM PRP GROUP

Prepared by:

ECOR Solutions, Inc.
1075 Andrew Drive, Suite I
West Chester, PA 19380

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1.0 INTRODUCTION

This quarterly report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the second quarter 2007. A Site map is provided as **Figure 1.** The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted during the second calendar quarter of 2007. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

1.1 SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984).
A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area *3,* was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The Remedial Action construction was performed during the summer of 2001. The implementation of the Remedial Design included excavation and characterization of potentially impacted soil, and installation of additional two groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

*1.2 **CHRONOLOGY** OF EVENTS*

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	**Date**	**Notes**
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11,2001	
RA Construction	June 11 -July 15, 2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19,2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous O & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17, 2002	
Second UZ Soil Sampling Event	August 14,2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site Groundwater
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19, 2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (Second Quarter 2007), no significant activities occurred relative to the Remedial Design.

3.0 OPERATION OF GROUNDWATER TREATMENT SYSTEM

Groundwater recovered from the three pumping wells (PW-1, PW-2, and PW-3) is treated through one bag filter and an air stripper prior to discharge. The bag filter removes suspended solids greater than 50 microns in diameter. The low-profile air stripper removes the VOCs from the groundwater. Following air stripping, the groundwater is discharged to surface water. **Figure 1** illustrates the PW locations and the Groundwater Treatment System. A Flow Diagram of the Groundwater Treatment System equipment and process piping is presented in **Figure 2.**

At present, due to a partial closing of the effluent discharge pipe caused from scale buildup, it is not possible to handle the flow from all three wells at one time. Pumping well PW-1 has routinely maintained a steady flowrate while PW-2 and PW-3 have typically have been turned off and cycled intermittently during operation. While pumping flowrates have decreased, VOC concentrations continue to remain low, approaching asymptotic levels.

3.1 ROUTINE OPERATION

Scheduled O&M activities include weekly Site visits by the local Chief Operator, Steve Rodland. The Chief Operator is the first responder to autodialer alarms from the Site. Weekly Site visits include performing an overall Site inspection, GWTP system inspection, including checking the bag filter for solids loading, gauging air flow through the stripper, and noting flow rates and totalized flow. Preventive maintenance items performed by the operator include monthly inspections of the air stripper blower, and air stripper trays are inspected for sediment and mineral deposits. The trays require cleaning on a quarterly basis as a preventative maintenance and system operation performance item.

3.2 SYSTEM OPERATIONS AND MONITORING HISTORY THROUGH SECOND QUARTER 2007

A total of 20,526,060 gallons of groundwater and approximately 37.9 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,702,060 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

At the beginning of 2002, Treatment System Influent and Effluent were sampled and analyzed on a twice-monthly basis, as per the initial DEC discharge approval document. The Treatment System sampling schedule was reduced to quarterly during the third quarter 2002 following approval of the NYSDEC. Effluent samples have been collected and analyzed during subsequent quarterly sampling events. The analytical results of the effluent have consistently met the DEC's Effluent Limitations, and have generally had non-detectable concentrations of VOCs. **Tables 1** and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4.** This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

On May 2, 2007 a Site inspection was performed by the EPA's George Jacob as part of the project's Five Year Review. Also in attendance were Richard Krauser (EPA), John Grathwol (DEC), Chris Rockwell (PRP Group), Matt Lapp and Will Torres (ECOR). No issues were identified during the inspection.

3.3 OPERATIONAL PROBLEMS ENCOUNTERED

As mentioned in Section 3.0, normal operation of the GWTS was stopped due to clogging of the effluent pipe. The system would only remain on by keeping PW-1 running and intermittently cycling PW-2 and PW-3.

The system will continue to be run utilizing only PW-1 with PW-2 and PW-3 cycled intermittently until the system is shut down to perform an in-situ bioremediation injection scheduled for September 2007.

4.9 QUARTERLY SITE MONITORING EVENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on 14 June 2007 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23, 2003). Groundwater samples were collected from monitoring wells MW-1 and pumping wells PW-1, PW-2 and PW-3 using EPA's low-flow sampling procedures, in accordance with the QAPP. A summary of the field parameter measurements is presented in **Table 3.** A copy of field notes collected during the sampling event is included in **Appendix A.** The preserved groundwater samples were collected and analyzed by Severn Trent Laboratories (STL), Buffalo, New York. A summary of Site groundwater elevations is provided in **Table 4.**

4.2 LABORATORY ANALYSIS / GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5.** The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater sample (MW-1) was analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), methylene chloride (MeCl), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzeneand 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MeCl, TCA, TCE, toluene, VC and cis-l,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1 -DCA and 1,1 -DCE. The concentrations of these VOCs range from non-detect to 280 micrograms per liter (ug/L) (TCA at monitoring well PW-1). Currently, only 1,1-DCA, and TCA are present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

Chemical	Groundwater Cleanup Level
1,1 -Dichloroethane	5
1,1 -Diclhloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

Groundwater quality data is depicted on **Figure** 5 with those constituents detected above the applicable clean-up standard are highlighted in yellow.

4.3 DA TA VAUDA TION

As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in Appendix B.

5.0 PLANS FOR NEXT QUARTER

ECOR submitted an in-situ bioremediation applicability study to the PRP group for review. The PRP Group requested an independent assessment of the data and recommendation prior to implementation. The independent assessment was completed during June 2006. The findings indicate that an in-situ bioremediation process may be an effective remediation technology. A work plan was prepared and approved by the EPA. An injection is scheduled for September 2007.

The next quarterly groundwater sampling event will be performed in September 2007 just prior to the shutdown of the GWTP in order to establish baseline conditions prior to the injection. Operation and maintenance plans for the next quarter include continued routine operation as well as preventative maintenance of the pumping wells and GWTP up until the system is shut down.

TABLES

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, ug/L	23	47	60	19J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12 J	16 DJ	50 U
Cis-1,2- Dichloroethene, ug/L	1.0J	1.4J	1.0 J	50 U	50 U	50 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, ug/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, ug/L	1.9 J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, ug/L	499	899	1276	1124	1174	823

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, ug/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, ug/L	13J	13J	9.4 J	4.2 J	4.6 J	4.3 J
Cis -1,2 - Dichloroethene, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Methylene Chloride, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	1200	580	530	260	220 E	250 E
Trichloroethene, ug/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Vinyl Chloride, ug/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Total Confident VOCs, [jg/L	1259	635	559	277	237	270

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	10	16	10	11	11	10
1,1-Dichloroethene, ug/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1 J	2.5 J
Cis -1,2 - Dichloroethene, ug/L	10U	10U	5.0 U	5.0 U	5.0 U	10 U
Methylene Chloride, ug/L	10U	10U	5.0 U	5.0 U	1.8 BJ	10 U
1,1,1 -Trichloroethane, ug/L	220	320	240 E	320 E	330 E	240
Trichloroethene, ug/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, ug/L	10U	10 U	3.3 J	5.0 U	5.0 U	10 U
Vinyl Chloride, ug/L	10U	10 u	5.0 U	5.0 U	5.0 U	10 u
Total Confident VOCs, ug/L	238	339	256	337	348	253

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	12	20	19 J	18D.J	20
1,1-Dichloroethene, pg/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10 U	10U	10U	25 U	20 U	10U
Methylene Chloride, ug/L	15 B	10U	3.1 BJ	16 J	12B,D,J	8.5 B.J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, ug/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, ug/L	2.6 J	10U	10 U	25 U	20 U	10 U
Vinyl Chloride, uq/L	10U	10U	10 U	25 U	20 U	10U
Total Confident VOCs, ug/L	246	276	376	425	390	407

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/2002	8/29/2002	9/18/2002	10/29/2002	11/25/2002	12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, ug/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, pg/L	2.6 J	1.3J	1.8 J	3.0 J	2.4 DJ	2.8 J
Cis -1,2 - Dichloroethene, ug/L	10U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Methylene Chloride, pg/L	10U	5.0 U	5.0 U	5.0 U	10U	5.0 U
1,1,1 -Trichloroethane, pg/L	210	150	190	170	160 D	150
Trichloroethene, pg/L	10 U	1.9 J	1.9J	2.5 J	10U	1.9 J
Toluene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Vinyl Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Total Confident VOCs, pg/L	222	162	202	184	172	161

Sampling Event	31 /GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	1/17/2003	2/19/2003	4/30/2003	6/23/2003	7/30/2003	8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10U	10U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 0	150	66
Trichloroethene, pg/L	2.4 J	1.6 J	10 U	10U	1.2 J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10 U	10U	5.0 U	5.0 U
Vinyl Chloride, pq/L	5.0 U	5.0 U	10 U	10U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	9/24/2003	10/23/2003	11/20/2003	12/3/2003	1/29/2004	3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.8 DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	180 D	170 D	92	110	1.9 J	96
Trichloroethene, pg/L	2.0 DJ	10U	1.1 J	1.6 J	5.0 U	1.0J
Toluene, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	191	174	98	118	2	104

Sampling Event	43/GW	44/GW '	45/GW	46/GW	47/GW	48/GW
Date	5/20/2004	6/16/2004	7/15/2004	8/26/2004	9/14/2004	10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.5	10D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, pg/L	5.0 U	10U	2.3 J	5.0 U	10U	2.3 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
Methylene Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
1,1,1 -Trichloroethane, pg/L	150	180 D	190	74	170 D	90
Trichloroethene, pg/L	5.0 U	10U	1.6J	5.0 U	10U	1.1 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
Total Confident VOCs, pg/L	156	190	201	77	179	97

Sampling Event	49/GW	50/GW	51/GW	52/GW	53/GW	54/GW
Date	12/14/2004	1/27/2005	3/22/2005	4/26/2005	5/30/2005	6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, pg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 **u**	1.0 U
1,1,1 -Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6 J	2.2 J	5.0 U	5.0 U	1.2J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Total Confident VOCs, pg/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	55/GW	56/GW	57/GW	58/GW	59/GW	60/GW
Date	7/28/2005	8/29/2005	9/13/2005	10/18/2005	11/22/2005	12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	10	9.5 J	2.3 J	7.1 J	5.2 J	2.7 J
1,1-Dichioroethene, pg/L	4.8	3.1J	0.64 J	1.5J	2.7 J	0.84 J
Cis -1,2 - Dichioroethene, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Methylene Chloride, ug/L	1.0 U	2.4 J	5.0 U	10U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, pg/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, pg/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Vinyl Chloride, pg/L	1.0 u	25 U	5.0 U	10U	20 U	5.0 U
Total Confident VOCs, ug/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event	61/GW	62/GW	63/GW	64/GW	65/GW	66/GW
Date	1/19/2006	2/24/2006	3/27/2006	4/20/2006	5/25/2006	6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, pg/L	1.7 J	1.3J	1.1 J	1.3J	1.5J	0.94 J
Cis -1,2 - Dichioroethene, pg/L	5.0 U	10 U	5.0 U	10U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.1 BJ	5.0 U	10U	1.3J	5.0 U
1,1,1 -Trichloroethane, pg/L	170	100	110	140	160	80
Trichloroethene, ug/L	1.3 J	0.87 J	0 95 J	1.0 J	1.2 J	0.72 J
Toluene, pg/L	5.0 U	10U	5.0 U	10U	10 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 u	5.0 U	10U	10 u	5.0 U
Total Confident VOCs, pg/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event	67	68	69	70	71	72
Date	7/18/2006	8/7/2006	9/14/2006	10/12/2006	11/22/2006	12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	1.6 J	1.2 J	4.7 J	1.4 J	2.3 J	1.3J
Cis -1,2 - Dichioroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0J	1.8 J	0.64 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 u	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 u	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	73	74	75	76	77	78
Date	1/18/2007	2/28/2007	3/21/2007	4/30/2007	5/23/2007	6/27/2007
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1 -Dichloroethane, ug/L	1.8 J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1 -Dichloroethene, ug/L	0.64 J	2.7 DJ	1.5J	2.8 J	2.0 J	0.88 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10U	10U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	1.0 DJ	10U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	62	170 D	230	210 D	200 D	180 D
Thchloroethene, ug/L	0.78 J	1.3 DJ	10U	1.1 J	1.2 J	0.67J
Toluene, ug/L	5.0 U	10U	10U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10U	10U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, ug/L	65.22	180.6	245.5	222.1	211.9	186.55

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.
E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.5 J	5.0 U	1.5J	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH. std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3 J	2.8 B,J
1,1,1 -Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.08	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1.1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5J	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride. pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1- Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	1.0 u	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	1.0 u	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	1.0 u	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	1.0 u	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	1.0 u	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	1.0 u	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW
Date	12/14/2006	3/21/2007	6/27/2007
Field Effluent pH, std pH units	8.36	8.44	8.39
Total Suspended Solids, mg/L	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
Byron Barrel and Drum Site
Field Chemistry Readings
June 14, 2007 Quarterly Sampling Event

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS gfl-	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW22	1300	15.8	9	7.13	0.5	1.87	718
	1305	15.5	10	7.10	0.5	1.85	720
	1310	14.9	10	7.08	0.5	1.82	719
	1315	14.5	10	7.06	0.5	1.80	718
	1320	14.2	10	7.04	0.5	1.77	718
	1325	14.3	9	7.04	0.5	1.75	717
	1330	14.1	9	7.02	0.5	1.72	717
MVNM-9/GW22	1355	16.8	8	7.72	0.5	1.71	719
	1400	15.4	8	7.73	0.5	1.70	715
	1405	15.6	8	7.75	0.5	1.68	710
	1410	15.7	8	7.76	0.5	1.67	707
	1415	15.6	9	7.75	0.5	1.66	704
	1420	15.7	9	7.75	0.5	1.66	704
	1425	15.7	9	7.75	0.5	1.65	705
PW-1/GW22	1410	10.2	2	7.37	4.24	3.67	611
PW-2/GW22	1415	10.0	3	7.45	4.19	3.41	609
PW-3/GW22	1420	10.1	6	7.38	4.21	3.20	606

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

Table 4
Byron Barrel and Drum Site
Groundwater Elevations for
June 2007 Sampling Event
ECOR Solutions, Inc.

Operator: **P. Little**

Date: **6/14/2007**

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	w c > ft
PW-1	13.43	642.82	629.39	–	–
PW-2	4.72	641.34	636.62	–	–
PW-3	5.18	641.11	635.93	–	–
Monitoring Wells					
MW-1	5.30	639.63	634.33	11.61	6.31
MW-2	11.20	646.36	635.16	15.06	3.86
MW-4	4.50	638.56	634.06	11.50	7.00
MW-1 OB	9.28	644.44	635.16	20.32	11.04
MW-21	8.09	642.52	634.43	27.87	19.78
Residential	15.84	650.78	634.94	35.16	19.32
Piezometers					
PZ-1	7.54	643.11	635.57	27.02	19.48
PZ-2	7.32	642.39	635.07	27.26	19.94

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (pg/L):			**5**	**5**	**NA**	**5**	**5**	**5**	**5**	**2**
MW-1	3/20/2002	639.63	5.24	634.39	**86**	**49**	NA	5 U	**1700**	**2 J**	**5 U**	**2 J**
	6/12/2002	639.63	5.07	634.56	**81**	**38**	NA	5 U	**1600**	**3 J**	**5 U**	**5 U**
	9/18/2002	639.63	7.15	632.48	**13**	13 J	NA	5 UJ	**350**	**5 U**	**5 U**	**5 U**
	12/18/2002	639.63	5.62	634.01	**42**	37 J	NA	25 U	**1200**	**5 J**	25 **U**	25 **U**
	4/29/2003	639.63	4.53	635.10	**57**	**34**	NA	25 U	**1300 J**	25 **U**	25 **U**	25 **U**
	6/24/2003	639.63	5.36	634.27	**32**	**24**	NA	5 U	**720**	**4 J**	**5 U**	**5 U**
	9/24/2003	639.63	6.72	632.91	24 **J**	17 J	NA	25 U	**580**	25 **U**	25 **U**	25 **U**
	12/3/2003	639.63	5-53	634.10	33 **J**	28 J	NA	40 **U**	**860 J**	40 **U**	40 **U**	40 **U**
	3/30/2004	639.63	3.40	636.23	30 **J**	**31**	NA	25 **U**	**830 J**	25 **UJ**	25 **U**	25 **U**
	6/16/2004	639.63	4.20	635.43	**26**	22 J	NA	25 **UJ**	**870**	25 **U**	25 **U**	25 **U**
	9/14/2004	639.63	4.56	635.07	**28**	**26**	NA	25 **U**	**730**	25 **U**	25 **U**	25 **U**
	12/14/2004	639.63	4.61	635.02	**31**	**26**	NA	25 **U**	**760**	25 **UJ**	25 **U**	25 **U**
	3/22/2005	639.63	4.32	635.31	**41**	**110**	NA	5 **U**	**830**	**5**	**5 U**	**5 U**
	6/7/2005	639.63	5.45	634.18	10 **J**	14 J	NA	13 J	**340**	50 **U**	50 **UJ**	50 **U**
	9/13/2005	639.63	6.89	632.74	**14**	**16**	NA	5 **U**	**410**	**2 J**	**5 UJ**	**5 U**
	12/20/2005	639.63	4.78	634.85	24 **J**	24 J	**NA**	40 **U**	**580**	40 **U**	40 **U**	40 **U**
	3/26/2006	639.63	5.07	634.56	**29**	**24**	**NA**	5 U	**540**	**4 J**	**5 U**	**5 U**
	6/22/2006	639.63	5.68	633.95	**7**	**9**	**NA**	5 U	**220**	**2 J**	**5 U**	**5 U**
	9/14/2006	639.63	5.15	634.48	**5 J**	**6 J**	**NA**	10 **U**	**190**	**2 J**	10 **U**	10 **U**
	12/7/2006	639.63	4.54	635.09	**6 J**	**9 J**	**NA**	10 U	**170**	**2 J**	10 **U**	10 **U**
	3/22/2007	639.63	4.19	635.44	**2 J**	4 J	**NA**	10 U	**100**	**2 J**	10 **U**	10 **U**
	6/14/2007	639.63	5.30	634.33	**6**	3 **J**	**NA**	5 U	**200**	**2 J**	**5 U**	**5 U**

																						J*		
	cn ro o o	co co N3 0 0	PO ro 0	to to 0 0 cn	cn ro ro So 0 0 cn	co ro cn ro 0 0 co	ro ro 0 ro 0 0 01	co co ro 0 0 cn	cn 3 ro 0 0 cn	co ro ro ro 0 0 cn	ro ro 0 0	co io 0 g	cn cn ro 0 0	co co co ro 0	ro ro 0 0 co	to ro 0 0 co	cn ro ro 0 0 co	to to io 0 0 co	to 00 ro 0 0 to	co co ro 0 0 to	cn ro io 0 0 ro	co ro 0 fo" 0 0 ro		O SB-
	co co CO Cn	co co cn	CJ> co co in 0	01 co 03 cn co	cn co co cn co	cn co co cn co	cn co co cn co	co co co cn co	cn co 00 cn cn	cn co co cn co	cn co co CJ1 cn	cn co co cn cn	co co co cn co	cn co CD cn cn	co co co cn co	cn co co cn co	cn co co cn co	co co co cn cn	co co 00 cn cn	co co 00 CJI cn	co co 00 cn cn	co co co cn CO		**Top of Casing (ft)**
	o	co M	co in	co to ro	-I* cn 0	co ro	-fc. cn	cn bo	ro cn	co cn cn	co to -J	CO	co CD	cn	co 00	cn CD	cn 00	cn 0	cn ro ro	cn b	CO	-si CO		**Depth to Water (ft)**
	CO co -& o en	co co cn co ro	co CD	co co cn	co co 0 CO	co co io	cn co co co	co co ro ro	cn co -& co	cn co cn b	cn co .&. cn CD	co co co cn	GO -U co ro	co co -J*. Ir>	co co co CJI CO	o> co ro cn cn	co co co to co	co co b co	co co co	co co ro cn to	co co b co	CO CO CO		**Groundwater Elevation (ft)**
	Cn C		ro cn	cn	cn	cn C	t_	cn	cn C	cn 0 C	t_	c_	cn	w	01	co tn	cn C	CO	0	cn C	co c_	c_	cn	1,1 -Dichloroethane
	Cn	01	M Cn	Cn	cn	cn	ro cn cr	cn	cn C	cn O C	to cn C	ro cn C	ro cn C	cn	-J c_	to	cn C	co c_	ro	cn C	ro c_		cn	1,1-Dichloroethene
	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	Z >	f	cis-1,2-Dichloroetbene
	01 C	en C	ro cn	Cn	cn	Cn	ro cn	Cn	cn C	cn 0 C t_	ro cn	ro cn C	ro cn C c_	Cn	10 CD	0	cn	ro cn	cn C	cn C	cn c:	ro cn C	cn	Methylene Chloride
	0	O		-* w	to	00	00	_1	GS	00 -J		00	-A cn 0	-A co O	cn cn 0	to 0	-J	cn co 0	O O	-4	00 co	cn 0	cn	1,1,1-Trichloroethane
	c_	t_	ro cn	ro c_	c_	<_	ro cn c=	ro c_	c_	cn 0 C	to cn C	ro cn C	ro cn C	CO	c_	co c_		M cn C	CO	cn	00	0	·	Trichloroethene
	01	cn C	ro cn <Z	cn	cn	cn C	ro cn C	cn C	cn C	Cn O	ro cn	ro cn C	ro CJi C	CJi C	ro 0 C	0 C	cn	ro cn C	cn	Cn C	cn C	M cn a	cn	Toluene
	01	CTI	ro cn C	Cn C	Cn C	Cn C	ro cn C	Cn C	Cn C	cn O C	ro cn C	ro cn C	to cn C	cn C	ro 0 C	O	cn C	ro cn C	cn C	cn C	cn	ro cn	10	Vinyl Chloride

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 UJ	NA	5 UJ	7	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5 U	5 U	NA	5 U	52	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5 U	NA	5 U	3 J	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5 U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table • Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-21	3/26/1999	NA	NA	NA	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
	3/21/2002	642.52	7.70	634.82	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	6/12/2002	642.52	7.69	634.83	25 U	25 U	NA	25 U	25 U	25 U	5 BJ	25 U
	9/17/2002	642.52	9.50	633.02	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	642.52	8.23	634.29	5 U	5 UJ	NA	5 U	5 UJ	5 U	5 U	5 U
	4/30/2003	642.52	7.91	634.61	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U
	3/30/2004	642.52	7.56	634.96	5 UJ	5 UJ	NA	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
	3/22/2005	642.52	7.42	635.10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/25/2006	642.52	7.78	634.74	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
	3/22/2007	642.52	7.38	635.14	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	6/12/2002	650.78	15.62	635.16	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	9/17/2002	650.78	17.50	633.28	5 U	5 UJ	NA	5 UJ	5 U	5 U	5 U	5 U
	12/17/2002	650.78	16.52	634.26	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	4/30/2003	650.78	17.74	633.04	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/30/2004	650.78	15.47	635.31	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2005	650.78	15.24	635.54	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/25/2006	650.78	15.75	635.03	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U
	3/22/2007	650.78	15.09	635.69	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	**5**	**5**	**5**	**5**	**2**
PW-1	12/21/1998	NA	NA	**NA**	20 **U**	**5 J**	20 **U**	**9 BJ**	**270**	**11 J**	20 U	20 **U**
	12/27/2001	NA	NA	NA	**15**	**6.2**	**5 U**	**5 U**	**280**	**5.2**	5 U	5 U
	3/20/2002	642.82	**NM**	**NM**	**11**	**5**	**5 U**	**5 U**	**320**	3 **J**	5 U	5 U
	6/12/2002	642.82	**NM**	**NM**	**18**	**3 J**	**5 U**	**5 U**	**380**	2 **J**	5 U	5 U
	9/18/2002	642.82	**NM**	**NM**	**12**	**2 J**	**5 U**	**5 UJ**	**270**	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	**8**	**5**	**5 U**	**5 U**	**160**	2 **J**	5 U	5 U
	4/30/2003	642.82	20.96	621.86	**11**	**2 J**	**5 U**	**5 U**	**180**	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	**12**	**2 J**	**5 U**	**5 U**	**190**	2 **J**	5 U	5 U
	9/24/2003	642.82	22.59	620.23	**8**	**5 U**	**5 U**	**5 U**	**120**	5 **U**	5 U	5 U
	12/3/2003	642.82	21.74	621.08	**8**	**2 J**	**5 U**	**5 U**	**150**	2 **J**	5 U	5 U
	3/30/2004	642.82	21.80	621.02	**6**	**2 J**	**5 U**	**5 U**	**150**	5 **U**	5 U	5 U
	6/16/2004	642.82	19.08	623.74	**13**	**3 J**	**5 U**	**5 UJ**	**380**	2 **J**	5 U	5 U
	9/14/2004	642.82	20.62	622.20	**10**	**2 J**	**5 U**	**5 U**	**210**	5 **U**	5 U	5 U
	12/14/2004	642.82	21.23	621.59	**6**	**2 J**	**5 U**	**5 U**	**140**	5 **U**	5 U	5 U
	3/22/2005	642.82	22.65	620.17	**15**	**23**	**5 U**	**5 U**	**200 J**	2 **J**	5 U	5 U
	6/7/2005	642.82	21.50	621.32	**10**	**2 J**	10 **U**	**2 U**	**59**	1 **J**	10 U	10 U
	9/13/2005	642.82	21.73	621.09	**3 J**	0.9 **J**	**5 U**	**5 U**	**73**	0.5 **J**	5 U	5 U
	12/19/2005	642.82	20.98	621.84	**9**	**2 J**	**5 U**	**5 U**	**140**	2 J	5 **U**	5 U
	3/26/2006	642.82	21.44	621.38	**4 J**	0.9 **J**	**5 U**	**5 U**	**76**	0.6 J	5 **U**	5 U
	6/22/2006	642.82	21.28	621.54	**4 J**	**1 J**	**5 U**	**5 U**	**77**	0.8 J	5 **U**	5 U
	9/14/2006	642.82	8.23	634.59	**9 DJ**	25 **U**	25 **U**	25 **U**	**230**	25 U	25 **U**	25 U
	12/7/2006	642.82	20.82	622.00	**6 J**	**2 J**	10 **U**	10 **U**	**160**	1 J	10 **U**	10 U
	3/22/2007	642.82	14.50	628.32	**6 J**	**2 J**	10 **U**	10 **U**	**170**	1 J	10 **U**	10 U
	6/14/2007	642.82	13.43	629.39	**9 J**	**2 J**	10 **U**	10 **U**	**280**	2 J	10 **U**	10 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table • Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	**5**	**5**	**5**	5	**2**
PW-2	12/27/2001	NA	NA	NA	**68**	**23**	1.4 **J**	5 U	**960**	**4 J**	5 U	1.1 **J**
	3/20/2002	641.34	NM	**NM**	**24**	**13**	**5 U**	5 U	**720**	**2 J**	5 U	**5 U**
	6/12/2002	641.34	NM	**NM**	**18**	**10**	**5 U**	5 U	**370**	**2 J**	5 U	**5 U**
	9/18/2002	641.34	**NM**	**NM**	**5**	**4 J**	**5 U**	5 UJ	**160**	**5 U**	5 U	**5 U**
	12/18/2002	641.34	17.68	623.66	**12**	**14**	10 **U**	10 U	**280**	10 **U**	10 U	10 **U**
	4/30/2003	641.34	16.82	624.52	**11**	**6**	**5 U**	5 U	**200**	**2 J**	5 U	**5 U**
	6/23/2003	641.34	19.41	621.93	**8**	**5**	**5 U**	5 U	**180**	**5 U**	5 U	**5 U**
	9/24/2003	641.34	17.45	623.89	**6**	**2 J**	**5 U**	5 U	**120**	**5 U**	5 U	**5 U**
	12/3/2003	641.34	18.78	622.56	**6**	**3 J**	**5 U**	5 U	**160**	**5 U**	5 U	**5 U**
	3/30/2004	641.34	19.24	622.10	**4 J**	**3 J**	**5 U**	5 U	**140**	**5 U**	5 U	**5 U**
	6/16/2004	641.34	18.58	622.76	**5**	**5 U**	**5 U**	5 UJ	**120**	**5 U**	5 U	**5 U**
	9/14/2004	641.34	18.25	623.09	**5**	**4 J**	**5 U**	5 U	**160**	**5 U**	5 U	**5 U**
	12/14/2004	641.34	17.63	623.71	**8**	**5**	**5 U**	5 U	**160**	**2 J**	5 U	**5 U**
	3/22/2005	641.34	19.33	622.01	**5**	**11**	**5 U**	5 U	**140**	**5 U**	5 U	**5 U**
	6/7/2005	641.34	19.40	621.94	**3 J**	**2 J**	**5 U**	5 U	**70**	**1 J**	5 U	**5 U**
	9/13/2005	641.34	19.52	621.82	**3 J**	**3 J**	**5 U**	5 U	**94 J**	**2 J**	5 U	**5 U**
	12/19/2005	641.34	17.35	623.99	**1 J**	**5 U**	**5 U**	5 U	**30**	0.5 **J**	5 U	**5 U**
	3/26/2006	641.34	17.22	624.12	**5**	**1 J**	**5 U**	5 U	**54**	0.8 **J**	5 U	**5 U**
	6/22/2006	641.34	18.59	622.75	**4 J**	**2 J**	10 **U**	10 BL	**170**	**1 J**	10 U	10 **U**
	9/14/2006	641.34	6.75	634.59	**3 DJ**	**1 DJ**	10 **U**	10 U	**92**	**1 DJ**	10 U	10 **U**
	12/7/2006	641.34	6.11	635.23	**9 DJ**	**3 DJ**	10 **U**	10 U	**230**	**2 J**	10 U	10 **U**
	3/22/2007	641.34	4.19	637.15	**8 J**	**4 J**	10 **U**	10 U	**90**	**1 J**	10 U	10 **U**
	6/14/2007	641.34	4.72	636.62	**8 J**	**2 J**	20 **U**	20 U	**270**	20 **U**	20 U	20 **U**

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

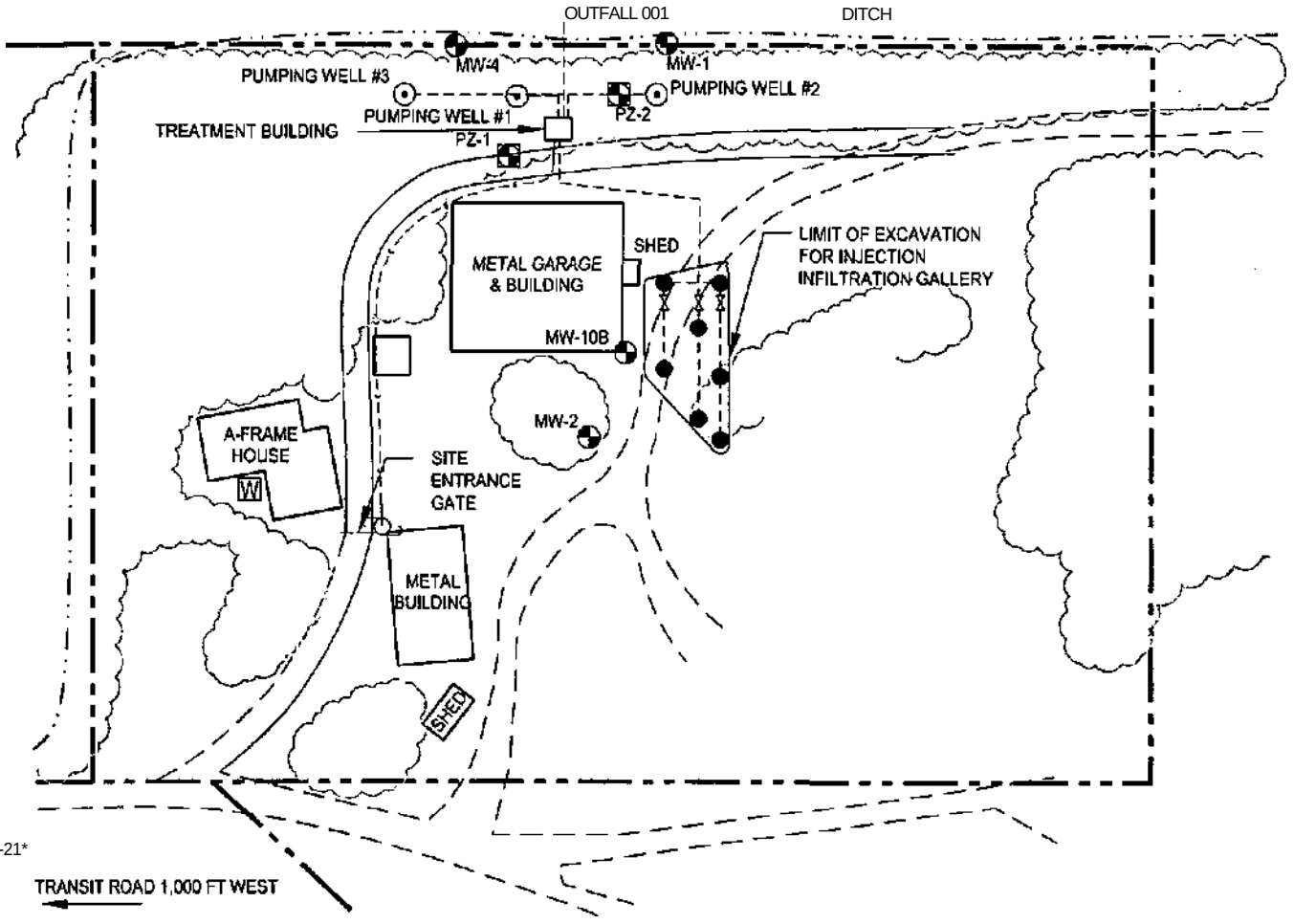
Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	**5**	**5**	**5**	**5**	**2**
PW-3	12/27/2001	NA	NA	**NA**	5 U	**5 U**	5 U	**5 U**	**16**	1.7 J	5 U	5 U
	3/20/2002	641.11	NM	NM	5 U	**5 U**	5 U	**5 U**	**8**	**1** J	5 U	5 U
	6/12/2002	641.11	NM	NM	5 U	**5 U**	5 U	**5 U**	**6**	5 U	5 U	5 U
	9/18/2002	641.11	NM	NM	5 U	**5 UJ**	5 U	**5 UJ**	4 J	5 U	5 U	5 U
	12/18/2002	641.11	19.90	621.21	5 U	**5 U**	5 U	**5 U**	4 J	5 U	5 U	5 U
	4/30/2003	641.11	19.46	621.65	5 U	**5 U**	5 U	**5 U**	3 J	5 U	5 U	5 U
	6/23/2003	641.11	18.55	622.56	5 U	**5 U**	5 U	**5 U**	3 J	5 U	5 U	5 U
	9/24/2003	641.11	20.97	620.14	5 U	**5 U**	5 U	**5 U**	2 J	5 U	5 **U**	5 U
	12/3/2003	641.11	20.28	620.83	5 U	**5 U**	5 U	**5 U**	3 J	5 U	5 U	5 U
	3/30/2004	641.11	20.52	620.59	5 U	**5 U**	5 U	**5 U**	2 J	5 U	5 U	5 U
	6/16/2004	641.11	19.65	621.46	5 U	**5 U**	5 U	**5 UJ**	2 J	5 U	5 U	5 U
	9/14/2004	641.11	20.91	620.20	5 U	**5 U**	5 U	**5 U**	2 J	5 U	5 U	5 U
	12/14/2004	641.11	18.33	622.78	5 U	**5 U**	5 U	**5 U**	2 J	5 U	5 U	5 U
	3/22/2005	641.11	22.17	618.94	5 U	**5 U**	5 U	**5 U**	2 J	5 U	5 **U**	5 U
	6/7/2005	641.11	20.30	620.81	5 U	**5 U**	5 U	**5 U**	5 U	5 U	5 U	5 U
	9/13/2005	641.11	21.52	619.59	5 U	**5 U**	5 U	**5 U**	1 J	5 U	5 U	5 U
	12/19/2005	641.11	20.36	620.75	5 U	**5 U**	5 U	**5 U**	**1** J	5 U	5 U	5 U
	3/26/2006	641.11	22.31	618.80	5 U	**5 U**	5 U	**5 U**	1 J	5 U	5 U	5 U
	6/22/2006	641.11	20.72	620.39	5 U	**5 U**	5 U	**5 U**	1 J	5 U	5 U	5 U
	9/14/2006	641.11	6.53	634.58	5 U	**5 U**	5 U	**5 U**	2 J	5 U	5 U	5 U
	12/7/2006	641.11	7.81	633.30	**6** DJ	**2 DJ**	5 U	**5 U**	**170**	1 J	5 U	5 U
	3/22/2007	641.11	5.45	635.66	**7**	**4 J**	5 U	**5 U**	**210**	1 J	5 U	5 U
	6/14/2007	641.11	5.18	635.93	**9** J	**3 J**	20 U	20 **U**	**260**	20 U	20 U	20 U

Notes:
All concentrations in micrograms per liter (ug/L)
Exceedences of the groundwater cleanup standard are indicated in bold.
NM = Not Measured
NA= Not Available

Table 6
Schedule of Sampling and Analysis for 2007
Byron Barrel & Drum Site
Byron, New York

Month	**Event**	**Monitoring Well to be Sampled**	**Constituents to be Analyzed**
March 2007	First Quarter 2007 Monitoring Event	MW-1 MW-4 MW-10B MW-21 MW-Residential	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
June 2007	Second Quarter 2007 Monitoring Event	MW-1 and MW-4	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
September 2007	Third Quarter 2007 Monitoring Event	MW-1 and MW-4 MW-10B	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
December 2007	Fourth Quarter 2007 Monitoring Event	MW-1 and MW-4	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride

FIGURES



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LEGEND

®	MONITORING WELL
	FORMER RESIDENTIAL WELL
	PIEZOMETER WELL
	INJECTION GALLERY PIEZOMETER WELL
	INJECTION GALLERY VALVE,
©	PUMPING WELL
	UTILITY POLE
	PROPERTY LINE
	FENCE
	TREELINE
	NEW GRAVEL ROAD
	PRE-EXISTING GRAVEL ROAD
	DITCH
	ELECTRIC & PHONE LINE
	REINJECTION PIPIING

•NOTE: MW-21 IS 200 FEET WEST OF PROPERTY UNE

SOURCE. ERM C*0 SERVICES

SITE PLAN

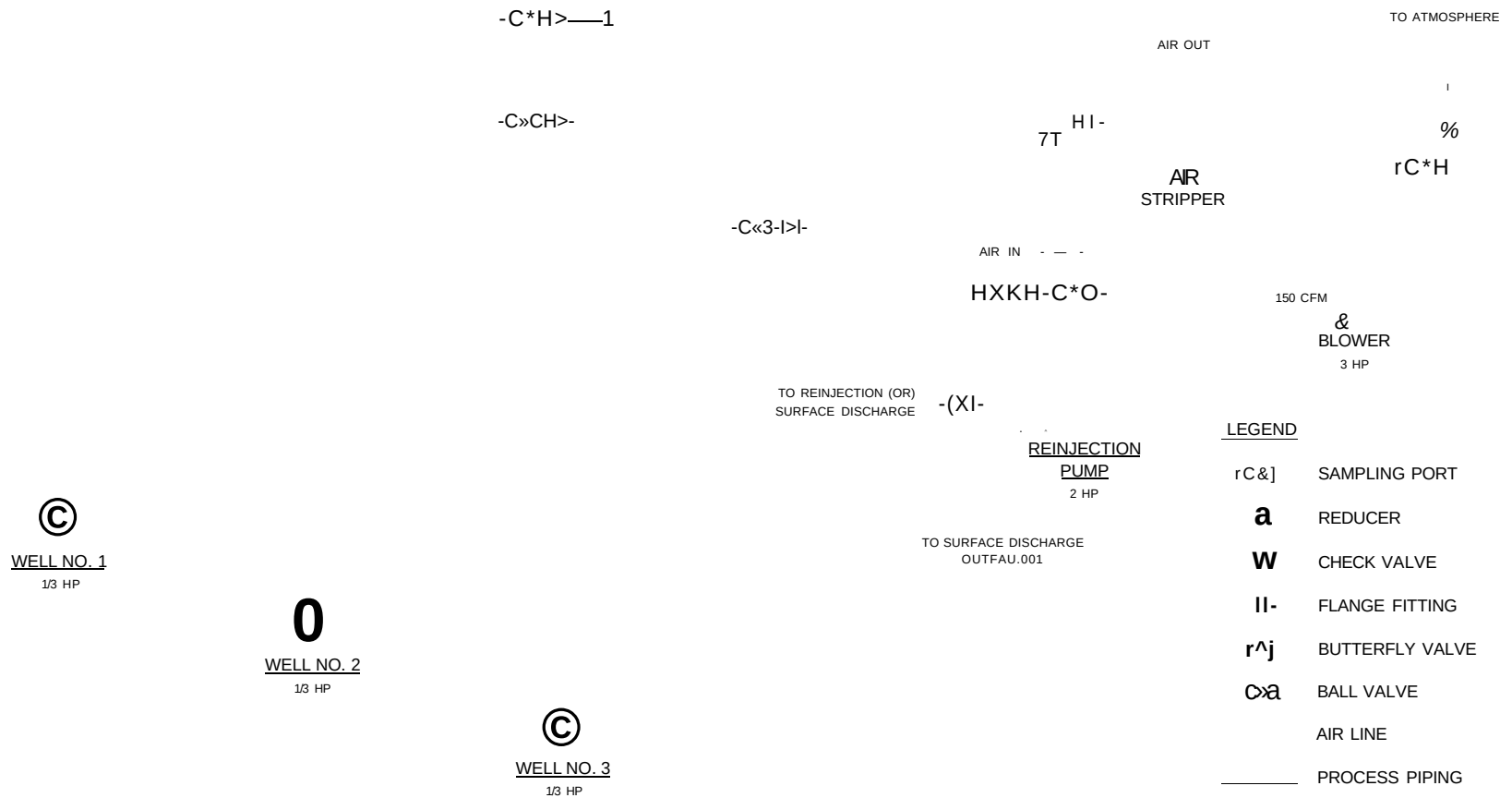
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET

DATE
07-25-06

FIGURE
1



SOURCE: ERM CSD SERVICES

GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET

DATE
09-02-05

FIGURE
2

ECOR Solutions, Inc.

Figure 3
Byron Barrel and Drum Site
Influent Concentration (Total VOCs) Vs. Time

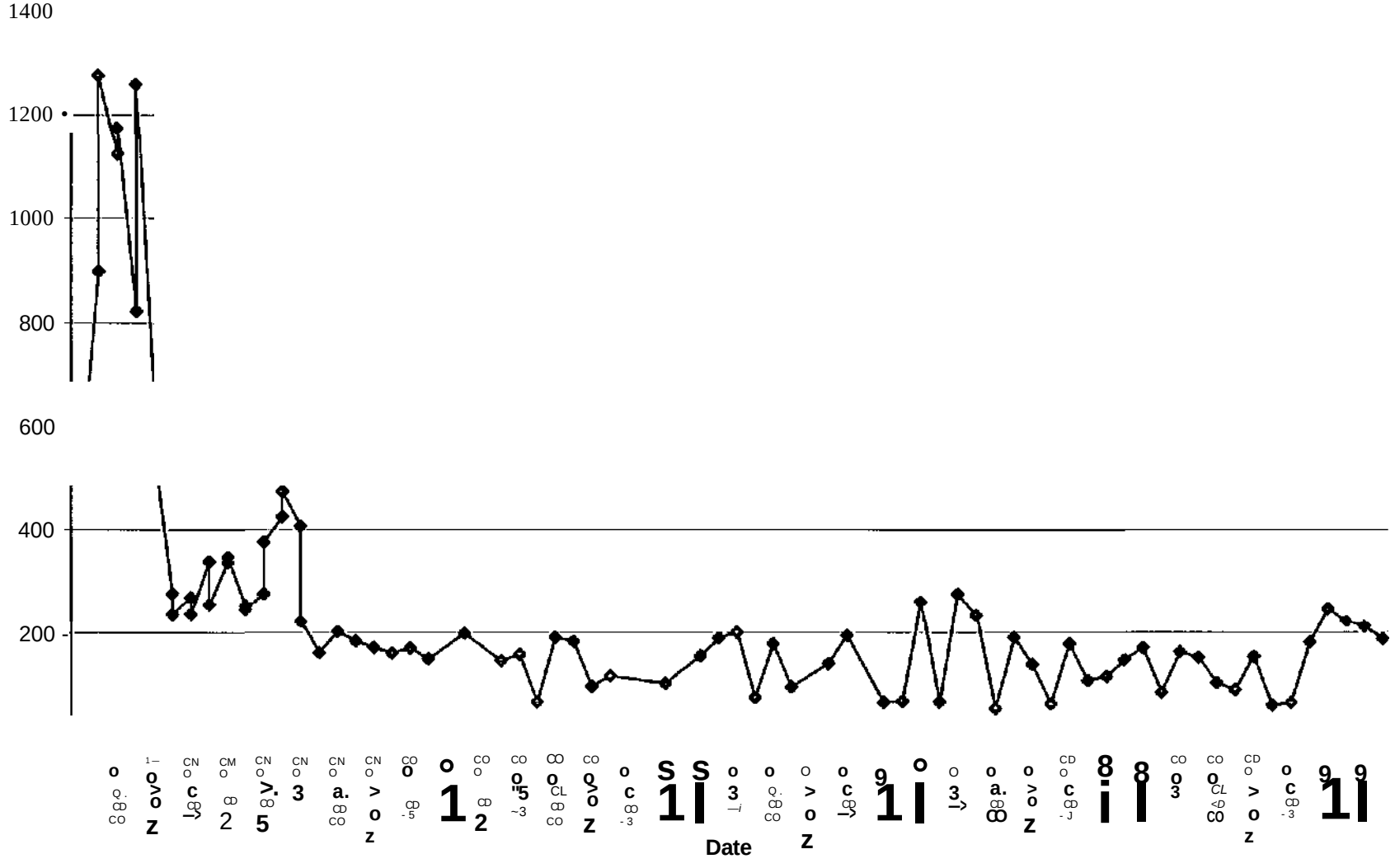
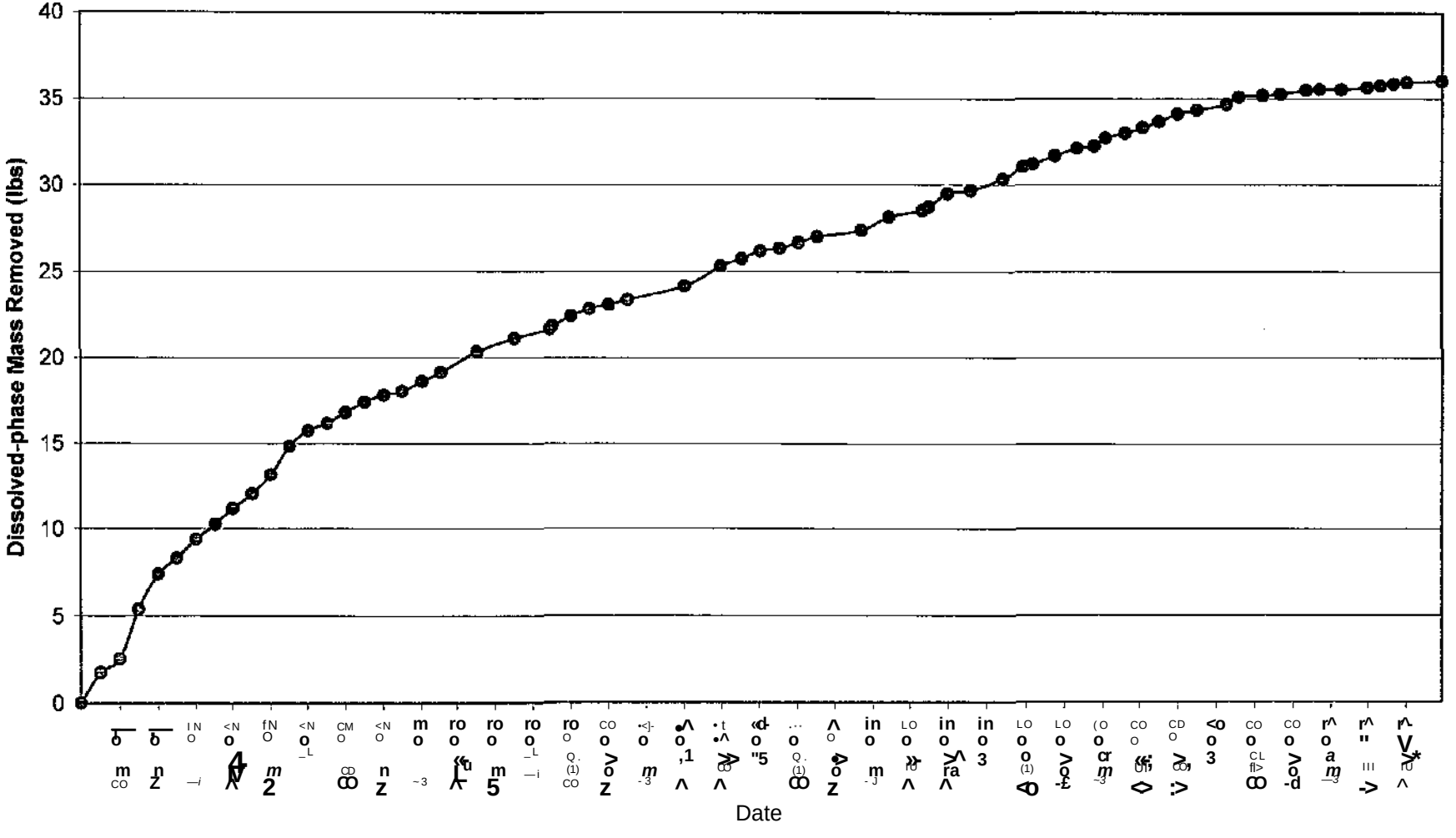
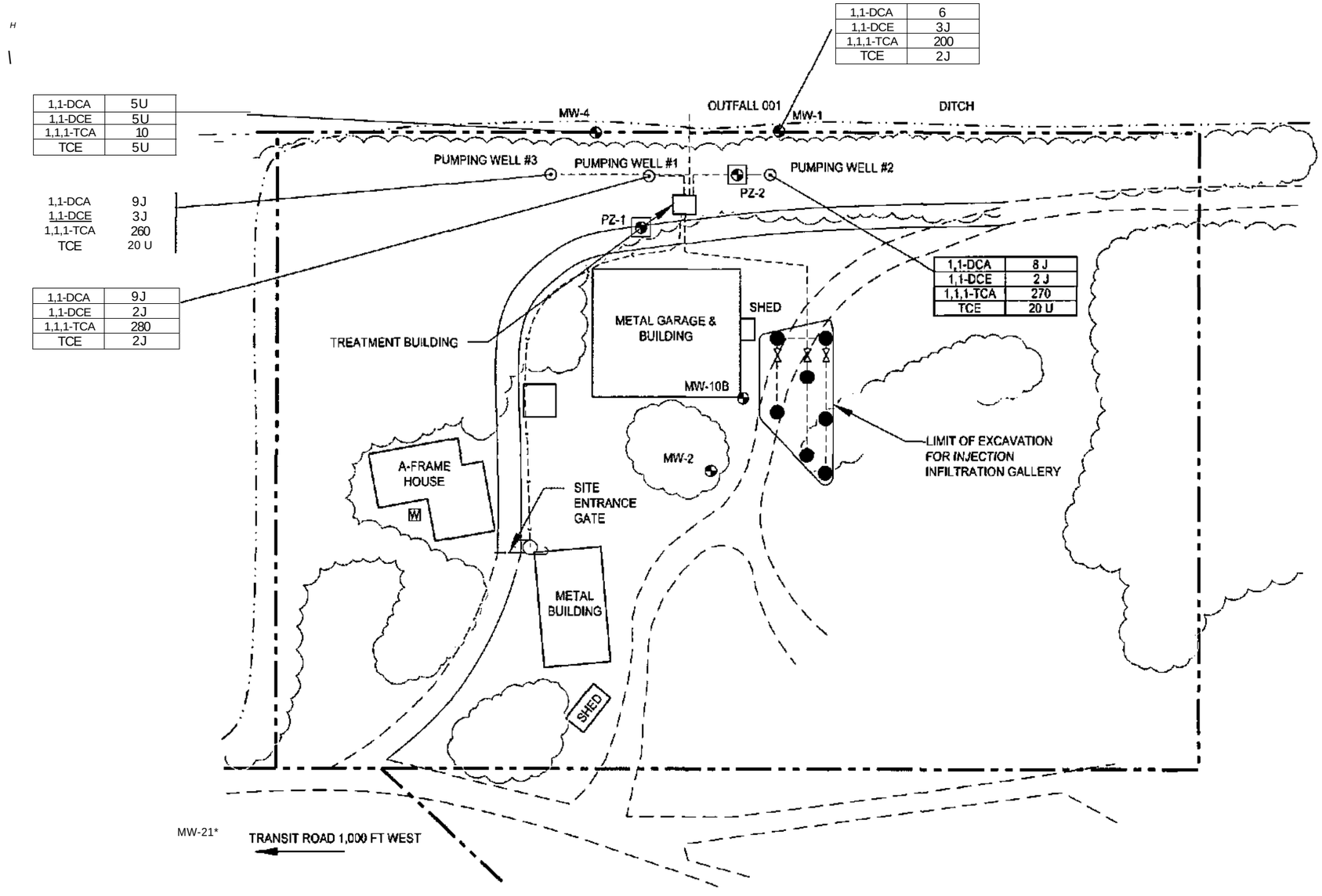


Figure 4
Byron Barrel and Drum Site
Cumulative Dissolved-phase Mass Removed (Total VOCs)





LEGEND

- S — MONITORING WELL
- — FORMER RESIDENTIAL WELL
- — PIEZOMETER WELL
- • — INJECTION GALLERY PIEZOMETER WELL
- _ — INJECTION GALLERY VALVE
- © — PUMPING WELL
- ⌜o_> — UTILITY POLE
- PROPERTY LINE
- ^ _ ^ ^ - ^ — TREELINE
- NEW GRAVEL ROAD
- PRE-EXISTING GRAVEL ROAD
- FENCE
- DITCH
- ELECTRICS PHONE LINE
- REINJECTION PIPIING

1,1-DCA	1,1-DICHLOROETHANE
1,1-DCE	1.1DICHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
TCE	TRICHLOROETHENE

INDICATES THE PARAMETER WAS NOT DETECTED AT OR ABOVE REPORTED LIMIT

ESTIMATED VALUE

EXCEEDENCES

•NOTE: MW-21 IS 200 FEET WEST OF PROPERTY LINE

SOURCE: ERM C&O SERVICES

GROUNDWATER QUALITY MAP
16 JUNE 2007
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET: 60
DATE: 07-24-07
FIGURE: 5

APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator:

Date: 6-iH-o-)

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	WC.ft.
PW-1	\W>	642.82	619.31		"
PW-2	4-1 z	641.34	6ZL-62-	_	"
PW-3	S'-iV	641.11	asr. 93	_	_
Monitoring Wells					
MW-1	S'lo	639.63	£39.33	1|,61	£.2t
MW-2	||.20	646.36	6is-.tc	\S.oO	3>8£
MW-4	H.^°	638.56	£$y-o&	\\so	7. 6o
MW-1 OB	<\n	644.44	Cv-'t	Zotf-	tt-°y
MW-21	$£f\	642.52	£ZH>VJ	91*1	/Lie
Residential	t^.?i	650.78	r3y. ?y	35. iC	f<?<2~Z
Piezometers					
P2-1	I S A	643.11	f3S,f7	9-%ol	/4-</0
PZ-2	-7-3-2-	642.39	63S.07	37.36	t?.?y

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: *£-M'<P*

Job #: 01501.002

Sample ID: ***/nv- / - f Set*/-?**.***

Well ID: ***/ n * t / - /*** Time onsite: Time Offsite:

Samplers: */jlftt-U /?./**-**•*

Depth of Well (from top of casing) ***ft£f*** Time: *i3Y*>*

Static water level (from top of casing) *5/$Q* Time: ***WSo***

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mil)		Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
}3°#	3e? */nt/fAt*>*		*IS.&*	***J***	*1./3*	*OS*	*1-01*	*lie*
{V&			*l$.f*	*(O*	*Uo*	*O^*	*l>0ST*	*13°*
*l3t**			*IH-1*	*ID*	*-7.0&*	*OS*	*1*8*-*	*7/7*
13 if			*IV-S*	*/o*	*1.0 6*	*oS*	*I.Bo*	*1/3*
l3>2^{0}			*IH.X*	*IO*	*l.oH*	*oJ*	*\ni*	*-J/6*
l3Zf			*MS*	*?*	*7*0^*	*0^*	*i-->s-*	*111*
*ill**	\	*s*	*H.i*	***7***	*7,02.*	*OS*	*i.ix*	*HI*
			-					

Sampling:

Time of Sample Collectio /3 3 0

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: £o*> 7 3 '

Sample Description:

Free Product?	Yes	No	Descript:
Sheen?	Yes	No	Descript.:
Odor?	Yes	No	Descript.:

Comments:

f,el* fi*f 7Ahir „ AT /nw f

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum **Date:** ^"-/y. *61*

Job #: 01501.002

Sample ID: */*\t*>~'/ ~1 /gu-zx-*

WellID: *A\uj' L/* Time onsite: Time Offsite:

Samplers: */{ti+4-I* r 7^ /4c*>* *}3¥T_* *W2f*

Depth of Well (from top of casing) */ /. S Z* Time: *i ^ f*

Static water level (from top of casing) *V 'so* Time: */JY3*

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)		Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
t3Sf	***fo I**I*"'***		*IL8*	***6***	*1,12*	*0»£*	*\nt*	*7 / 7*
I^co			*IS.*/*	*&*	*113*	*OS*	*1.1 o*	*lis-*
Ifof			*IS J*	***e***	*I:if*	***frf***	*/. 66*	*l/o*
I L Ito			*isn*	***e***	*n.nc*	*OrS'*	*f ^ I*	*not*
IHIX			*ISX*	*7*	*1-If*	*o*f*	*1-66*	*lo*/*
*H***	**ŋ**		*&<~>*	**?**	*7<?r*	tf.jT"	*\.£&*	*los-*
\H$*	**ŋ**		*IS. 7*	**7**	**?r**	*D.f*	*l.£f*	*loS~*

Sampling:

Time of Sample Coilectio *IH2f*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: *fa -7S**

Sample Description: *cir*^*

Free Product?	Yes	No	X	Descript.:
Sheen?	Yes	No	X	Descript.:
Odor?	Yes	No		Descript.:

Comments:

*fV/ptf SJ+/+ TA /c/T^ A^*

M^-y

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS	DO mg/L	Spec. Cond. mS/cm
PW-I/GwS''	IHio	*lo.t*	*2*	737	q/H	*111*	6«I
PW-2/GW^	im*	**10-0**	***b***	1.M5	**•In**	3.MI	6 ^
pw-3/Gw2_r'"	*\HlQ*	IO-\	***Q***	*nVi*	**LJ.2I**	6.^0	**6oC**

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

APPENDIX B
Data Validation Report

Project: Byron Barrel and Drum Site
Laboratory: Severn Trent Laboratories
Sample Delivery Group: A07-6684/A07-7215
Fraction: Organic
Matrix: Aqueous
Report Date: 9/18/2007

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Severn Trent Laboratories.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

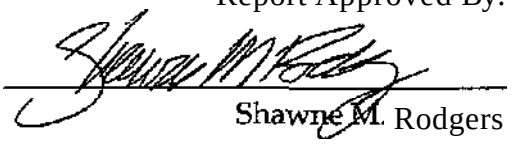
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region H "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HW-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

X	Data Completeness
X	Chain of Custody Documentation
X	Holding Times
X	Instrument Performance
X	Initial and Continuing Calibrations
X	Laboratory and Field Blank Analysis Results
X	Surrogate Compound Recoveries
X	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	Field Duplicate Analysis Results
X	Laboratory Control Sample Results
X	Internal Standard Performance
X	Qualitative Identification
X	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

W0h^y

Date

1.0 DATA COMPLETENESS

The laboratory incorrectly logged sample DUP-9/GW-22 in as DUP-6/GW-22. The sample identification has been manually corrected on the laboratory forms.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDWGTIMES

The holding times were met for all analyses.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

The positive methylene chloride result reported for sample INF-7S/GW is qualitatively invalid due to the presence of this compound in associated laboratory method blank. USEPA protocol requires positive results for common contaminants, such as methylene chloride, that are less than or equal to ten times the associated blank contamination level, to be considered qualitatively invalid. The result has been replaced by the quantitation limit.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

Duplicate samples MW-1-9/GW-22 and DUP-9/GW-22 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Table 2. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses and internal acceptance criteria of twenty percent for volatile detected compounds to evaluate field duplicate samples.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 QUAmTTATION/REPORTING UMTS

The following samples were re-analyzed at dilutions for volatile organic compounds. The reanalyses were performed because the responses for volatile compounds exceeded the linear range of the GC/MS instrument for the initial undiluted analyses. The affected results were reported from the dilution analyses. All other results have been reported from the initial analyses.

Sample	Dilution Factor	Compound reported from Dilution
LNF-78/GW	2.0	1,1/1 "Trichloroethane
DUP-9/GW-22	4.0	1,1,1-Trichloroethane
MW-1-9/GW-22	4.0	1,1,1 -Trichloroethane
PW-1-9/GW-22	4.0	- 1,1,1-Trichloroethane

The samples presented below were analyzed at dilutions for volatile organic compounds. The dilution analyses were performed because of the suspected presence of high levels of target compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples.

Sample	Dilution Factor
PW-1-9/GW-22	2.0
PW-2-9/GW-22	2.0
PW-3-9/GW-22	4.0

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, HA, and HI, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, and revisions

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples Collected June 2007
Severn Trent Laboratories Sample Delivery Group A07-6684

SAMPLE ID.	LABORATORY I.D		DATE COLLECTED	MATRIX	ANALYSES PERFORMED	
					VOC	TSS
MW-1-9/GW-22	A76684G	1	6/14/2007	Groundwater	X	
MW-4-9/GW-22	A766840	2	6/14/2007	Groundwater	X	
DUP-9/GW-22	A766840	3	6/14/2007	Groundwater	X	
PW-1-9/GW-22	A766840	4	6/14/2007	Groundwater	X	X
FW-2-9/GW-22	A766840	5	6/14/2007	Groundwater	X	X
PW-3-9/GW-22	A766840	6	6/14/2007	Trip Blank	X	X
Trip Blank	A766840	8	6/14/2007	Groundwater	X	

VOC: Volatile Organic Compounds
TSS: Total Suspended Solids

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples CoUected June 2007
Severn Trent Laboratories Sample Delivery Group A07-7215

SAMPLE LD.	LABORATORY I.D		DATE COLLECTED	MATRIX	ANALYSES PERFORMED VOC
EFF-46/GW	A772150	1	6/27/2007	Groundwater	X
INF-78/GW	A772150	2	6/27/2007	Groundwater	X
Temp Blank	A772150	3	6/27/2007	Trip Blank	X

VOC: Volatile Organic Compounds

Table 2 Field Duplicate Sample Results for Organic Analyses
Duplicate Samples MW-1-9/GW-22 and DUP-9/GW-22

	MW-1-9/GW-22 (Hg/L)		DUP-9/GW-22		RPD	Comments
1,1-Dichloroethane	6		6		0	
1,1-Dichloroethene	3	J	4	J	29	
1,1,1-Trichloroethane	200		220		10	
Trichloroethane	2	J	2	J	0	

ECOR SOLUTIONS
ECOR SQLUITCNS - BYRCN BARREL, & EftUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

? Client No.

DUP^/GW-22

Lab Name: STL Buffalo Contract:

Lab Code: REGNY Case No.:_____ SAS No.:

Matrix: (soil/water) WATER

Sanple wt/vol: 5.00 (g/iriL) ML

Level: (lcw/msd) LCW

% Moisture: riot dec._____ Heated Purge: N

GC Column: ZB-624 ID: 0.25 (nm)

Soil Extract Volurre; (uL)

mi

SPG No. : 061407 *G-tf-&QJ*

Lab Sample ID: A7668403

lab File ID: R6698 .RR

Date Sanp/Recv: 06/14/2007 06/14/2007

Date Analyzed: 06/21/2007

Dilution Factor: 1.00

Soil Aliquot Volume: (uL)

CAS NO.	GCMPOUND	GCNCEOTRATICN UNITS: (ug/L or ug/Kg) U3/L	Q
75-34-3	1,1-Dichlorcethane	6	
75-35-4	1,1-Dichloroethene	4	J
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1/1-Trichloroethane		
79-01-6	Trichloroethene	2	
75-01-4	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichlcaxethane	5	u
107-06-2	1,2-Dichloroethane	5	u
127-18-4	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	Bromodichlororethane	5	u
124-48-1	DibronrxiiLorortiethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	l^-Dichlorobenzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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AQU03US ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA. SHEET

Client No.

DUP-6/GW-22 EL

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case Kb.: SAS No.: SEGNO.: 061407

Matrix: (soil/water) MATER lab Sanple ID: A7668403DL

Sairple wt/vol: 5.00 (g/mL) ML Lab File ID: R6709.RR

Level: (low/ned) LOW Date Sanp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 06/21/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	CCMPOUND	aa^CEWIKATICW UNITS: (ug/L or ug/Kg) UG/L_	
75-34-3	1,1-Dichloroethane	6	DJ
75-35-4	1,1-Dichloroethene	3	EG"
75-09-2	Methylene chloride	20	U
108-88-3	Toluene	20	
71-55-6	1,1,1-Trichloroethane	220	
79-01-6	Trichloroethene	2	' DJ
75-01-4	Vinyl chloride	20	U
71-43-2	Benzene	20	u
1330-20-7	Total Xylenes	60	u
108-90-7	Chlorobenzene	20	u
79-00-5	1,1,2-Trichloroethane	20	u
107-06-2	1,2-Dichloroethane	20	u
127-18-4	Tetrachloroethene	20	u
67-66-3	Chloroform	20	u
75-27-4	Brcnodichlorcmethane	20	u
[illegible]	[illegible]	20	u
124-48-1	DllJJlUtDCJllOXUUfciUlclIifci		
78-93-3	2-Butanone	40	u
Sfi-ZVS	Carbon Tetrachloride	20	u
95-50-1	1,2-Dichlorobenzene	20	u
106-46-7	1,4-Dichlorobenzene	20	u

Report

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EXXR SOLUTIONS - BYRCN BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-1-9/GW-22

Lab Narte: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.: 061407

Matrix: (soil/water) WATER Lab Sample ID: A7668401

Sartple wt/vol: 5.00 (g/iriL) ML Lab File ID: R6678.RR

Level: (low/ired) LOT Date Sanp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 06/20/2007

GC Column: ZB-624 ID: 0.25 <mm) Dilution Factor: 1.00

Soil Extract Volute:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CCWCEKTOATICN UNITS: *(vp/h* or uq/Kfcr) U3/L	Q
75-34-3	1,1-Dichloroethane	6	
75-35-4	1,1-Dichloroethene	3	J
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane		
79-01-6	Trichloroethene	2	*J*
75-01-4'	Vinyl chloride	5	u
71-43-2	Benzene	5	u
1330-20-7	Total Xylenes	15	u
108-90-7	Chlorobenzene	5	u
79-00-5	1,1,2-Trichloroethane	5	u
107-06-2	1,2-Dichloroethane	5	u
127-18-4->	Tetrachloroethene	5	u
67-66-3	Chloroform	5	u
75-27-4	BranodiciKLororrethane	5	u
124-48-1	Dibrornochloroniethane	5	u
78-93-3	2-Butanone	10	u
56-23-5	Carbon Tetrachloride	5	u
95-50-1	1,2-Dichlorobenzene	5	u
106-46-7	1,4-Dichlorobenzene	5	u

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ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-1-9/GW-22 DL

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.: 061407

Matrix: (soil/water) WATER lab Sanple ID: A7668401DL

Sanple wt/vol: 5.00 (g/mL) ML lab File ID: R6696.RR

Level: (low/ned) LOT Date Sarrp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 06/21/2007

GC Colurtn: ZB-624 ID: 0.25 (imO Dilution Factor: 4.00

Soil Extract Volume: <uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CCNCENTRATiaN UNITS: (ug/L or ug/Kg) UG/L	
75-34-3	1,1-Dichloroethane	6	DJ
75-35-4	1,1-Dichloroethene	4	DJ
75-09-2	Methylene chloride	20	U
108-88-3	Toluene	20	U
71-55-6	1,1,1-Trichloroethane	200	
79-01-6	Trichlorcethene	20	U
75-01-4	Vinyl chloride	20	U
71-43-2	Benzene	20	U
1330-20-7	Total Xylenes	60	U
108-90-7	Chlorobenzene	20	U
79-00-5	lAi2-Trichlorcethane	20	U
107-06-2	1,2-Dichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
67-66-3	Chloroform	20	U
75-27-4	Brcnrxiicnloromethane	20	U
124-48-1	DihromochlororrEthane	20	U
78-93-3	2-Butanone	40	U
56-23-5	Carbon Tetrachloride	20	U
95-50-1	1,2-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U

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ECDR SOLUTIONS
E03R SOLUTIONS - BXRCN BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA. SHEET

Client No.

MW-4-9/GW-22

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS Kb.: SD3 No.: 061407

Matrix: (soil/water) WATER Lab Sarrple ID: A7668402

Sample wt/vol: 5.00 (g/mL) ML Lab File LD: R6S95.RR

Level: (low/msd) LOW Date Sanp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 06/21/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____(uL) Soil Aliquot Volume: (UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	10	
79-01-6	Trichloroethene	1	J
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	Chlordbenzene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
67-66-3	Chloroform	5	U
75-27-4	BrcmodichloronEthane	5	U
124-48-1	Dibrcood^lorCTTEthane	5	U
78-93-3	2-Butanone	10	U
56-23-5	Carbon Tetrachloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
10S-46-7	1,4-Dicnlorobenzene •	5	U

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ECOR SOLUTIONS
ECOR SOLUTIONS - EKRON BARREL & DRUM SITE
ACPEOJS ASP 2000/8260 - SELECT LIST - 8 OVIPDS
ANALYSIS DATA SHEET

Client No.

FW-l/GW-22

Lab Name: STL Buffalo Contract:

lab Cede: RECNY Case No.:_____ SAS No.: SDGNb.: 061407

Matrix: (soil/water) WATER Lab Sample ID: A7668404

Sample wt/vol: 5.00 (g/mL) ML Lab Pile ID: R6682.RR

Level: (low/med) LOW Date Sairp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 06/20/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ua/L or ua/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	9	J
75-35-4	1,1-Dichloroethene	2	J
156-59-2	cis-l,2-Dichloroethene	10	U
75-09-2	Methylene chloride	10	u
108-88-3	Toluene	10	u
71-55-6	1,1,1-Trichlorcethane	*2 fv*	&$3
79-01-6	Trichloroethene	*2*	J
75-01-4	Vinyl chloride	10	U

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smk 9/18/2007

EOT S0LUTICN5
ECCR SOLUTIONS - BYRCN BARREL & DKLM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMTOS
ANALYSIS DATA SHEET

Client No.

PW-l/GW-22 DL

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.:_____ SAS No.: SDG No.: 061407

Matrix: (soil/water) WATER Lab Sample TD: A7668404DL

Sample wt/vol: 5.00 (g/mL) ML Lab Pile ID: R6697.RR

Level: Clow/med) LCW Date Samp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec. ,_____Heated Purge: N Date Analyzed: 06/21/2007

GC Column: ^-624 ID: 0.25 (imm) Dilution Factor: 4.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____.(uL)

CCNCENTRATICN UNITS:

CAS NO.	CCMPOUND	(uc/L or ua/Ka) UG/L	Q
75-34-3	1,1-Dichloroethane	9	DJ
75-35-4	1,1-Dichloroethene	2	DJ
156-59-2	cis-l,2-Dichloroethene	20	U
75-09-2	Methylene chloride	20	U
108-88-3	Toluene	20	U
71-55-6	1,1,1-Trichloroethane	280	rffe
79-01-6	Trichloroethene	20	U
75-01-4	Vinyl chloride	. 20	U

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ECQR SOLUTIONS - BMEOST BARREL & ERUM SITE
AQUECUS ASP 2000/8260 - SETSCT LIST - 8 CMEDS
ANALYSIS DATA SHEET

Client No.

PW-2/GW-22

Lab Name: STL Buffalo Contract:

Lab Cede: KEQtT Case Kb.:_____. SAS No.: SDGNb. : 061407

Matrix;: (soil/water) WATER Lab Sample ID: A7668405

Sanple wt/vol: 5.00 (g/rriL) ML Lab File ID: R6683.RR

Level: (low/ired) LOW Date Samp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 06/20/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	COSICENTRATICN UNITS: (ug/L or ug/Kg) U3/L	Q
75-34-3	1,1-Dichloroethane	8	J
75-35-4	—1,1-Dichloroethene	2	J
156-59-2	cis-l,2-Dichloroethene	20	U
75-09-2	Methylene chloride	20	U
108-88-3	Toluene	20	U
71-55-6	---1,1,1-Trichloroethane	270	
79-01-6	Trichloroethene	20	U
75-01-4	Vinyl chloride	20	U

EOOR SOLUTIONS
ECDR SOLUTIONS - BXRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client Mb.

PW-3/GW-22

Lab Name: STL Buffalo Contract:

Lab Code: REQjy Case No.: , SAS No.: SDG Nb.: 061407

Matrix: (soil/water) WATER Lab Sample ID: A7668406

Sarrple wt/vol: 5.00 (g/rriL) ML Lab File ID: R6684.RR

Level: (low/msd) LOW Date Samp/Recv: 06/14/200? 06/14/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 06/20/2007

GC Column: ZB-624 ID: 0.25 (Ttm) Dilution Factor: 4.00

Soil Extract Volute: (UL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	O2KEOTRATI0N UNITS: (ug/L or ug/l^) UG/L	Q
75-34-3	1,1-Dichloroethane	9	J
75-35-4	1,1-Dichloroethene	3	J
156-59-2	cis-l,2-Dichloroethene	20	V
75-09-2	Methylene chloride	20	V
108-88-3	Toluene	20	V
71-55-6	1,1,1-Trichloroetnane	260	
79-01-6	Trichloroethene	20	V
75-01-4	Vinyl chloride	20	U

ECQR *SOLUTIONS*
EOQR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA. SHEET

Client No.

Trip Blank

Lab Nams: STL Buffalo Contract:

Lab Code: RBCMY Case Kb.: SAS No.: SD3NO.: 061407

Matrix: (soil/water) WATER lab Sample ID: A766B40B

Sample wt/vol: 5.00 (g/rriL) ML Lab File ID: R6663.RR

Level: (low/med) LOW Date Sarrp/Recv: 06/14/2007 06/14/2007

% Moisture: not dec. , Heated Purge: N Date Analyzed: 06/20/2007

GC Column: ZB-624 ID: 0.25 (tm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: {ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	**u**
108-88-3	Toluene	5	**u**
71-55-6	l,l$_{\#}$l-Trichloroethane	5	**u**
79-01-6	Trichloroethene	5	**u**
75-01-4	Vinyl chloride	5	**u**
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	**u**
108-90-7	Chlorobenzene	5	U
79-00-5	1,1,2-Trichloroethane	5	**u**
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	**u**
67-66-3	Chloroform	5	**u**
75-27-4	Brorrodichloromsthane	5	**u**
124-48-1	Dibromochlorcrrethane	5	**u**
78-93-3	2-Butanone	10	**u**
56-23-5	Carbon Tetrachloride	5	**u**
95-50-1	-1,2-rJichlorcfoenzene	5	**u**
106-46-7	1,4-Dichlorobenzene	5	**u**

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Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

EW-l/GW-22

lab Name: STL Buffalo Contract:

Lab Code: REOJY Case No.: SAS No.: SDG No.: 051407

Ifetrix (soil/water) : WATER Lab Sample ID: A7668404

% Solids: 0.0 Date Samp/Recv: 06/14/2007 06/14/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			160.2	06/15/2007

Ojtrments:

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

FW-2/GW-22

Lab Name: STL Buffalo Contract:

Lab Cede: RECNY Case No. SAS No.: SDG No.: 061407

Matrix (soil/water): WATER lab Sample ID: A7668405

% Solids: 0.0 Date Samp/Recv: 06/14/2007 06/14/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			160.2	06/15/2007

Ccctments:

Ecor Solutions
Eoor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

PW-3/GW-22

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.: 061407

Matrix (soil/water): WATER Lab Sample ID: A7668406

% Solids: 0.0 Date Samp/Recv: 06/14/2007 06/14/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	MG/L	4.0	U			160.2	06/15/2007

Comments:

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
WATER SURROGATE RECOVERY

Lab Name: STl Buffalo **Contract:**

Lab Code: RECNY **Case No.:** **SAS No.:** SDG No.: 061407

	client Sample ID	Lab Sample ID	BFB %REC	#	0CE %REC	tf	TOL %REC	#						TOT OUT
1	DUP-6/GU-22	A7668403	107		114		98							0
Z	DUP-6/GW-22 DL	A7668403DL	101		100		94							0
3	MSB 70	A780969201	107		94		97							0
4	WSB71	A7B0970501	105		98		94							0
5	MU-1-9/GU-22	A766S401	99		106		92							0
6	MU-1-9/GU-22 DL	A7668401DL	103		109		95							0
7	NW-4-9/GW-22	A766840Z	99		106		93							0
8	HW-4-9/GW-22	A766640ZMS	102		101		91							0
9	KW-4-9/GU-22	A7668402SD	106		105		94							0
10	Trip Blank	A7668408	107		102		101							0
11	VBLK70	A7B0969202	105		98		98							0
12	VBLK71	A7B0970502	103		107		96							0
13	Volatile Holding Blk	A7668407	100		96		94							0

QC LIMITS

BFB = p-Bromofluorobeniene (73-120)
DCE = 1,2-Dichloroethane-D4 (66-137]
TOL = Toluene-D8 (71-126)

Colum to be used to flag recovery values
Values outside of contract required QC limits
Surrogates diluted out

EGOR SOLUTIONS
ECOR SOLUTIONS - BYRGN BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

Trip Blank

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7721503

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G7021.RR

Level: (Icw/msd) LOW Date Sarrp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec. Heated Purge: N Date Analyzed: 07/09/2007

GC Column: ZB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichlorcethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	l,lA-Trichloroethane	5.0	U
79-01-6	Trichlorcethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

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ECOR SOLOTTCNS
EQOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 CCMPOUNDS
ANALYSIS DATA SHEET

Client No.

EFF-46/GW

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: __ SAS No.: SDGNb.

Matrix: (soil/water) WATER Lab Sanple ID: A7721502

Sanple wt/vol: 5.00 (g/rriL) ML Lab File ID: G7020.RR

Level: (low/mad) LOW Date Sairp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 07/09/2007

GC Column: ZB-624 ID: 0.18 (mO Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CCNCEWTRATICN UNITS: (ug/L or ug/Kg) T33/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l^-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	0
71-55-6	l^A-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	u

SMK 9/18/2007

ECCR SOLUTIONS
ECCR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - MEHKD 8260 - 8 COMPOUNDS
ANALYSIS DATA. SHEET

Client No.

INF-78/GW .

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: _____ SAS No.: SDGNo.:

Matrix: (soil/water) WATER lab Sample ID: A7721501

Sample wt/vol: 5.00 (g/mL> ML Lab File ID: G7Q19.RR

Level: (low/med) LCW Date Samp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 07/09/2007

GC Column: ZB-624 ID: 0.18 (irm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____{uL)

CONCENTRATION UNTTS:

CAS NO.	COMPOUND	fug/L or ua/Ka) UG/L	/O
75-34-3	1,1-Dichloroethane -	5.0 /	
75-35-4	1,1-Dichlaroethene	0.88 /	*J*
156-59-2	cis-l,2-Did3lorcethene	5.0	U
75-09-2	Methylene chloride	5.0	U ^
71-55-6	ia/1-Trichloroethane		
79-01-6	Trxchloroethene	0.67	*J*
108-88-3	Toluene	5.0	**u**
75-01-4	Vinyl chloride	5.0	**u**

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ECCR SOLUTIONS
ECOR SQLUTICNS - BXRCN BARREL & DRUM SITE
UNISYS - METB3D 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No,

INF-78/GW

lab Name: STL Buffalo Contract:

Lab Code: RBCNY Case No.: _____ SAS No.: SDGNo.

Matrix: {soil/water) MATER Lab Sarrple ID: A7721B01DL

Sample wt/vol: 5.00 (g/iriL) ML Lab Pile ID: G7055.RR

Level: (lcw/med) I£W Date Samp/Recv: 06/27/2007 06/26/5007

% Moisture: not dec._____ Ifeated Purge: N Date Analyzed: 07/10/2007

GC Column: 2B-624 ID: 0.18 (nra) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	CCMPCOND	CCNCENrRATICN UNITS: <ug/L or ug/Kg) UG/L _	Q
75-34-3	1,1-Dichloroethane	5.5	DJ
75-35-4	1,1-Dichloroethene	1.1	DJ
156-59-2	cis-l,2-Dichloroetnene	10	U
75-09-2	Methylene chloride	1.1	DJ
71-55-6	1,1, l-Trichloroethane	180	*jy%*
79-01-6	Trichloroethene	10	'U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	u

Repeat

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Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STI-4124 (0901 [

Client: ECoA

Address

City | State | Zip Code

Project Name and Location (State)

Contract/Purchase Order/Quote No.: y ^ J'I

Project Manager: £ S^

Telephone Number (Area Codej/Fax Number

Site Contact | Lab Contact

Carrier/Waybill Number

Dale: t^'/y-o

Lab Number

Chain of Custody Number: 325197

Page. Lo,±

Analysis (Attach list if more space is needed}

Special Instructions/ Conditions of Receipt

Sample t,D. No. and Description (Containers for each sample may be combined on one line}	Date	Time	Matrix	Containers S Preservatives		^1
T^*/ /$£***>	^/f-el	0^00	X	X.		
/h^-/-9 /<r*-< -3x		133°				
Au+>'9~ ?SS*%s-2A		ttiy				
/y\tv~ 9 - f/ <T<v -xx M/**H?		WT				1
/?u^~f /S^-2X		13-io				
/*H/-f /^W-ZA*		IHfo	X			£
S?I«J~ 2 /fw -32~		/VAT	0f			
/ ^ - ? /<£«s-3z\	V	Wlo	V	K	T	

Possible Hazard Identification

Q Non-Hazard D Flammable Q Skin Irritant D Poison B C Unknown

Sample Disposal

O Return To Client CD Disposal By Lab D Archive For Months (A tee may be assessed if samples are retained longer than t month)

OC Requirements (Specify)

Turn Around Time Required

D 24 Hours D 48 Hours Q 7 Days • 14 Days D 21 Days D Other.

1. Relinquished By — Date — Time: IS60 — "\Beceived By — Date/ I Time____

2. Relinquished By — Date — Time — 2. Received By — Date: rJuUs 1 As rr> — Time — J/1

3. Relinquished By — Date — Time — 3. Received By — Date — Time

Comments

Q. & c^

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY • Slays with the Sample: PINK • Field Copy

Chain of Custody Record

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager /77#7T~L^pp	Date / 1	Chain of Custody Number 349544
Address a\ Severn &?// sr z. FUO^~	Telephone Number (Area Code)/Fax Number m^JSgi- 7-SVo /#37 -7S77	Lab*Number	P*g# nf
City / State PA / Zip Code	Site Contact / Lab Contact	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Project Name and ideation (State)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No. f	Matrix / Containers & Preservatives		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives
JZZJJC- 7*/&OS	iM4n t	3>'Wf\	I	A,
£FF- %/CU>	6/?i/o7	3'SHfi,	I	0.
~l£fi?P &*/&> 0)	JjiA-7			
•Pi WJP - y./pf £&= - g.zi				

Possible Hazard Identification
Q Non-Hazard Q Flammable D Skin Irritant Q Poison 8 \3Unknown

Sample Disposal
• Return To Client ^Disposal By Lab • Archive For Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
D 24 Hours D 48 Hours %%7Days • 14 Days Q 21 Days • Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By I J 7 T / F "	6/28/07		1. Received By	thttfltt	P'-oofi/h
^Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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DISTRIBUTION: WHITE - Returned to Client with Report; CANARY • Stays with the Sample: PINK • Field Copy

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - MEHKD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

EFF-46/GW

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7721502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G7020.RR

Level: (low/med) DCW Eate Sanp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/09/2007

GC Cblumn: ZB-624 ID: 0.18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CXM^KIRATICN UNITS: fua/L or ua/Kq) UG/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

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ECOR SOLUTIONS - BYRON BARREL & DRLM SITE
UNISYS - METEKD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEBT

Client No.

INF-78/GW

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.:_____ SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7721501

Sample wt/vol: 5.00 (g/mL> ML Lab File ID: G7019.RR

Level: (low/med) LCW Date Sanp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 07/09/2007

GC Column: ZB-624 ID: 0.18 (rnm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____<uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane •	5.0	
75-35-4	1,1-Dichloroethene	0.88	J
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-TrichloECoetharfi	160	E
79-01-6-	Trichloroethene	0.67	J
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	**u**

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METFCD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

INF-78/GW

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: ___ SAS No.: SDGNb.:

Matrix: (soil/vater) MATER Lab Sample ID: A772150LDL

Sairple wt/vol: 5.00 (g/mL) ML Lab File ID: G7055.RR

Level: (low/rred) LOT Date Sarrp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 07/10/2007

GC Column: 2B-624 ID: 0.18 (mm) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L._	Q
75-34-3	1,1-Dichloroetbane	5.5	DJ
75-35-4	1,1-Dichloroethene	1.1	DJ
156-59-2	cis-l,2-Dichlorcethene	10	U
75-09-2	Methylene chloride	1.1	DJ
71-55-6	1,1,1-Trichloroethane	180	D
79-01-6	Trichloroethene	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRCN BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

Trip Blank

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: _____ SAS No.: SDGNb.:

Matrix: (soil/water) WATER Lab Sample ID: A7721503

Sample wt/vol: 5.00 (g/rriL) ML Lab File ID: G7021.RR

Level: (low/med) LOT Date Sarrp/Recv: 06/27/2007 06/28/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 07/09/2007

GC Column: ZB-624 XD: 0.18 (rrm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CO^CENTRATICN UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-01-6	Trichlorcethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
frost. ^/u7JhAi.s ."ZA/C	/MATT jUfP		325313
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
?r^^fzjcce_			**Pay*** nf
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
P/9- If 32^		6. r/scMtr/C-	
Project Name and Location (State)	**CarrierAVaybill Number**		
Contract/Purchase Orber/Quote"No.			

Sample I.D. No. and Description (Containers (or each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives	Special Instructions/ Conditions of Receipt
~H>F~ 77 M^	5j*j/i7	3-"fK I	J i 3	T 1 x S S 3 11	2.
~~71i.'{? /;> lj?/J/t$_r$.	S/JTSA?				
? // JJJF - 7 5-2.					
				1	

Possible Hazard Identification

Q Non-Hazard D Flammable D Skin Irritant • Poison B Jefunknown

Sample Disposal ^ ^ s ^ fgR may De assesseci ,f samples are retained

• Return To Client ^Disposal By Lab • Archive For Months longer than 1 month)

Turn Around Time Required

• 24 Hours • 48 Hours 07 Days d M Days • 21 Days G Other

OC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5/23/07		1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments 2.0 C

Date , | Time

Da* ^^ f ' Time I .fc

Data Time

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY • Stays with the Sample: PINK • Field Copy

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

INF-77/GW

Lab Nams: STL Buffalo Cbntract:

Lab Code: RECNY Case No.: ___ SAS No.: SCG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7562901

Sairple wt/vol: 5.00 (g/mL) ML Lab File ID: 01267.RR

Level: (low/med) LOW Date Samp/Recv: 05/23/2007 05/24/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 05/31/2007

GC Column: ZB-624 ID: 0.25 (nm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volurre:_____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(uq/L or uq/Ka) UG/L	Q
75-34-3	1,1-Dichlarcethane	8.7	
75-35-4	1,1-Dichloroethene	2.0	J
156 -59-2	cis-1,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	270	E
79-01-6	Trichloroethene	1.2	J
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

EOOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 (XMPOUNDS
ANALYSIS DATA SHEET

Client No.

TNF-77/GW DL

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) HATER Lab Sample *ID:* A7562901DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: N8071.RR

Level: (Icw/ired) LOT Date Samp/Recv: 05/23/2007 05/24/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 05/31/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 5.00

Soil Extract Volume: (uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L _	Q
75-34-3	1,1-Dichloroethane	6.6	DJ
75-35-4	1,1-Dichloroethene	9.5	DJ
156-59-2	cis-l,2-Dichloroethene	25	U
75-09-2	Methylene chloride	25	U
71-55-6	1,1,1-Trichloroethane	200	D
79-01-6	Trichloroethene	25	U
108-88-3	Toluene	25	U
75-01-4	Vinyl chloride	25	U

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

Trip Blank

Lab Name: STL Buffalo Cbntract:

Lab Code: RECNY Case No.:_____ SAS No.: SDG No.:

Matrix; (soil/water) WATER Lab Sample 3D: A7562902

Sample wt/vol: 5.00 (g/mL) ML, Lab File ID: 01251.RR

Level: (lcw/med) LOW Date Sanp/Recv: 05/23/2007 05/24/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 05/30/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) Q3/L	Q
75-34-3	1,1-Dididorcethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l^-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroetbane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4I24 (0901)

Client	Project Manager	Date / , V/sJt-7	Chain ol Custodv Number 325558
Address £1 SouT/J fJ/qNsT. Z^&M/L-	Telephone Number (Area CodejfFax Number tyfti\ W1 - 7-S70 / gs-i - IS/ 7	Lab Number	Page of
City <-> State P/h Zip Code	Site Contact A7/97T I< Lab Contact ft. f/scJj£fZ_	Analysis (Attach list if more space is needed)	
Project Name and Location (Stately . /JA//SL/S / &/£AAJ A/-V	Carrier/Waybill Number		
Contract/Purchase Order/Quote No/ /	Matrix / Containers & Preservatives		Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time		1		1	1	S	§	5 3	1	1												Special Instructions/ Conditions of Receipt
zrv^~ y6 /<5cJ	y&fa	3'Mg^ I J							*															
~7&np fiUfJjts (oT^	VAs/t7 v /																							
PH. JT*JF- '7>4/																								

Possible Hazard Identification

D Non-Hazard • Flammable D Skin Irritant D Poison B ^unknown

Sample Disposal

D Return To Client ^Disposal By Lab • Archive For Months (A feg may bQ assessed If samples are retained longer than 1 month)

Turn Around Time Required

• 24 Hours D 48Hours &7Pays D 14 Days D 21 Days D Other

OC Requirements (Specify)

1. Relinquished By /') if ~A 77 Steve Kollerl	Date 4/30/07	Time	1. Received By	Date	m, Time
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date / /	Time

Comments

2.0°C

DISTRIBUTION: WHITE • Returned to Client with Report: CANARY - Stays with the Sample: PINK - Field Copy

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRIM SITE
UNISYS - METHOD 8260 - 8 (XMPOUNDS
ANALYSIS DATA SHEET

Client No,

INF-76/GW

lab Narre: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7459301

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8492.RR

Level: (low/med) LOW Date Samp/Recv: 04/30/2007 05/01/2007

% IVbisture: not dec. Heated Purge: N Date Analyzed: 05/04/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: <uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	8.2	
75-35-4	1,1-Dichloroethene	2.8	J
156-59-2	cis-l,2-DicMoroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	230	E
79-01-6	Trichloroethene	1.1	J
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

ECOR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No,

TNF-76/GW DL

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: _____ SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7459301DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8508.RR

Level: (low/med) LOW Date Sanp/Recv: 04/30/2007 05/01/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 05/04/2007

GC Column: ZB-624 ID: 0.25 (ran) Dilution Factor: 5.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(tiL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or *ug/Kg)* UG/L	Q
75-34-3	1,1-Dichloroethane	7.6	DJ
75-35-4	1,1-Dichloroethene	2.5	DJ
156-59-2	cis-l,2-DicMoroethene	25	U
75-09-2	Methylene chloride	5.8	DJ
71-55-6	1,1,1-Trichloroethane	210	D
79-01-6	Trichloroethene	25	U
108-88-3	Toluene	25	U
75-01-4	Vinyl chloride	25	U

ECDR SOLUTIONS
ECOR SOLUTIONS - BYRON BARREL & DRUM SITE
UNISYS - METHOD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: _____ SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: A7459302

Sample wt/vol: 5.00 (g/triL) ML Lab File ID: P8493.RR

Level: (low/med) LOW Date Sanp/Recv: 04/30/2007 05/01/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 05/04/2007

GC Column: ZB-624 ID: 0.25 (nm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	u
79-01-6	Trichloroethene	5.0	u
108-88-3	Toluene	5.0	u
75-01-4	Vinyl chloride	5.0	u

KEY CLIENT MATRIX - COMMERCIAL
October 1,2007

Key Client	KCM	Sales			Deltok	Deltek	November Action Items
		Actual VTD	Budget	Goal	Opportunities	Face-to Face	
BASF Corp	FM/SD	$394k			Eastport ME -Win Carteret NJ - Win	9/27/07 - Ernest Behm - Kickoff Mtg Carteret NJ	1. Network with Florham Park NJ envir qroup 2. Work reqional enq / env group Geiamar LA
CSX Transportation	EM				Rail Car Demo-$2.4M		1. Face time with decision makers 2. Draft final proposal
Cycle Systems	EM/	$305k			NC Plant Demo- $2M	10/5/07 Neal Brenner Set up meetinq wk of 10/15 with all Brenners	1. Build new friendship 2. Move foreward with larger teaming NC 3. Mine joint venture
Douqlas Development	SM/ EM	$649k			Interbake Demo/ SR -S1.3M Completed ATC Demo former Hess Bldq		1. Build on success at FD Bridge 2. Leverage succeed of FDB Court Paul Millstein. 3. Differentiate ECOR for Interbake project Richmond.
DuPont	TM/ SD/ MW	$13k			Rail Car Demo-loss StineHaskell Fac#6 Demo-Win Spruance Pond Closure-$t.5M Bid List Quals	9/26/07-M.Brill &T.Stammler regarding Invista work	1. Position ECOR to rec multi-yr pre-Qual pkq for future work 2. Meet with Ron T., Doug F.. Ed L. by 7/31 to assure ECOR qualifies for above 3. Meet with Pit Personnel at Parkersburg, Chamber Works & Edgmoor for CS & DD opps
ERM	BL/ AG/ SD	S423K			ERM Honeywelt/FrontRoyal-$200k	9/19/07-Mtgw/B.Bennett	1. Follow up w/Dave Dusing and Pete King on Pepsi. 2, Follow-up w/D.Reinke (Minneapolis)
Forest Cities	EM	S3.1M			Additional Soil Haul-ff-$1.5M		1, Execute® Richmond 2. Golf with Val East 3, Sailing w/Amon, Wichmann, Richardson, May
GE	SD/	S53K			GE Newberg - Win GE Energy Hamilton NJ - Win GE Susquehanna PA - Win		1. Meet with Ed Jamison/Dawn Varrachi 2. Visit Pat Rabideau to leverage into GE. 3. Leverage MWH into GE
Jarden	PK	$251 k			OwnOper.etc Toll dryer S2M		1. Contract coffee drying regional facility in Northampton PA 2. Win Dairy Farmers of America coffee opps 3. Develop similar coffee drying opps nationally.
MACTEC / Honeywell	TM/MM				ERM Honeywell/FrontRoyal-$200k MACTEC-Sear SR-S1.6M	9/27/07-met w/D.Newton & M.Faith Plymouth PA 9/27/07-Mtq w/D.Guest SB.Worden	1. Visit Plymouth Mtg PA /Hamilton NJ offices - develop potential opportunites 2. Develop relationship map for both offices 3, Assure updated MSA in place
Nestle USA / Nestle Frozen Foods	PK	S1486M			Nestle-Jarden (Jul-Auq)-Win	9/25/07 Me w/J.Burrell in Gaffney to handle additional waste stream plant 9/5/07 met w/L.Brandlein discuss coffee dryinq	1. Extend contract ot concide w/Jarden 5yr term 2. Expanf Gaffney SC work beyond current contract. 3. Develop reigonal facility in SC for Nestle
URS	TM/SD				URS Andrews AFB DBR2 Landfill-$4M	9/19/07-Mtg w/B.SIomeana. P.Dudko, O.Lamprerell. B.Murray URS bidders list	1. Complete 2 visits Ft Washington office for opps & build relationship map for this office 2, Complete visit to Hemdon/Gaithersburg offices w/E King 3. Phone Bob Murphy to determine next steps w/8uffalo office

KEY CLIENT MATRIX - FEDERAL
October 1,2007

Key Client	KCM	Sales			Deltek Opportunities	Deltek Face-to Face (Name, date, objective)	November Action Items
		Actual YTD	Budget	Goal			
AM EC	EK					7/26/07-met w/J.Tarsavage regarding WERC conlract	1. Meet w/L.Hambro about Cape opps 2. Monitor Navy opps that would benefit from anECOR/AMECteam 3
NAVFAC MidLant	EK/ SM/ PS	**$2.1 M**			Calverton FireTraining-$2M Philadelphia Navy Yd $20K Bethoaqe Asbestos S350K		1. Continue trying to meet with Tim Reisch & Nina Johnson 2. Seek info on when Calverton FTA will be released *'•i.* Meet with Philadelphia Navy personne about CS & O&M opps
NAVFAC Washinqton	EK/ SM/ PS	$30K			NAS Patuexent Refuel-Win NASPR SPCC Closure, CTO 140. 141. 142 -S181k		1. Meet with Terri Regin NFESaboui opps at NASPR & DESC related sites 2. Meet with Dietrice Sheilds-NAVFAC Wash SADBU 3. Meet with Bob Williams
TetraTech	EK/ PS						1. Meet with J.Trepanoski for teaming opps 2. Meet with Dave Brayack, 757-461-3824 about TetraTech NUS opportunities 3. Monitor I-LUBIZopps and NAVFAC e-solicitations for teaming opps

Environmental Construction Operations & Remediation

ECOR Solutions, Inc.
1075 Andrew Drive. Suite I
West Chester, PA 19380
Main (610)431-8731
Phone (610) 840-9200
Fax (610)431-2852

January 7, 2008

ECOR Solutions, Inc.

Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866

Re: Third Quarter Report 2007
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the Third Quarter of 2007. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

l^U^v^d^ rriX[1]———-• / ^ i o 2008

Matthew Lapp
Project Engineer

cc: Mr. John Grathwol -NYSDEC
Mr. Chris Rockwell - Garlock Sealing Technologies
Mr. Terry Etter, P.E. - Unisys Corporation
Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)
Keith Rapp - ECOR Solutions
Project File - ECOR Solutions

Final

BYRON BARREL & DRUM SITE

QUARTERLY REPORT

THIRD QUARTER 2007

Byron Barrel & Drum Site
Area 2
Byron, New York

January 7, 2008

Prepared for:

BYRON BARREL & DRUM PRP GROUP

Prepared by:

ECOR Solutions, Inc.
1075 Andrew Drive, Suite I
West Chester, PA 19380

r

ECOR
Solutions, Inc.

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1.0 INTRODUCTION

This quarterly report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the third quarter 2007. A Site map is provided as **Figure 1.** The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted during the third calendar quarter of 2007. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

1.1 SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984).

A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RJ detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The Remedial Action construction was performed during the summer of 2001. The implementation of the Remedial Design included excavation and characterization of potentially impacted soil, and installation of additional two groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

1.2 CHRONOLOGY OF EVENTS

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	**Date**	**Notes-**
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11,2001	
RA Construction	June 11 -July 15,2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19,2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous 0 & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17,2002	
Second UZ Soil Sampling Event	August 14,2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site GW
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2,2007	5 year review
GWTS Shut down for In-situ Bioremediation	September 12, 2007	
In-Situ Bioremediation Injection Event	September 18-20,2007	

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19,2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17, 2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (Third Quarter 2007), no significant activities occurred relative to the Remedial Design.

3.0 OPERATION OF GROUNDWATER TREATMENTSYSTEM

Groundwater recovered from the three pumping wells (PW-1, PW-2, and PW-3) is treated through one bag filter and an air stripper prior to discharge. The bag filter removes suspended solids greater than 50 microns in diameter. The low-profile air stripper removes the VOCs from the groundwater. Following air stripping, the groundwater is discharged to surface water. **Figure 1** illustrates the PW locations and the Groundwater Treatment System. A Flow Diagram of the Groundwater Treatment System equipment and process piping is presented in **Figure 2.**

At present, due to a partial closing of the effluent discharge pipe caused from scale buildup, it is not possible to handle the flow from all three wells at one time. Pumping well PW-1 has routinely maintained a steady flowrate while PW-2 and PW-3 have typically have been turned off and cycled intermittently during operation. While pumping flowrates have decreased, VOC concentrations continue to remain low, approaching asymptotic levels. The Groundwater Treatment System was shut down on September 12, 2007 to allow for the In-Situ Bioremediation (Injection) to take place. The system will remain shut down awaiting the results and evaluation of the Injection. An evaluation will be made following the Fourth Quarter sampling event as to whether or not the Injection was successful.

3.1 ROUTINE OPERATION

Scheduled O&M activities include weekly Site visits by the local Chief Operator, Steve Rodland. The Chief Operator is the first responder to autodialer alarms from the Site. Weekly Site visits include performing an overall Site inspection, GWTP system inspection, including checking the bag filter for solids loading, gauging air flow through the stripper, and noting flow rates and totalized flow. Preventive maintenance items performed by the operator include monthly inspections of the air stripper blower, and air stripper trays are inspected for sediment and mineral deposits. The trays require cleaning on a quarterly basis as a preventative maintenance and system operation performance item.

3.2 SYSTEM OPERATIONS AND MONITORING HISTORY THROUGH THIRD QUARTER 2007

A total of 20,572,110 gallons of groundwater and approximately 38.0 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,748,110 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the

Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

At the beginning of 2002, Treatment System Influent and Effluent were sampled and analyzed on a twice-monthly basis, as per the initial DEC discharge approval document. The Treatment System sampling schedule was reduced to quarterly during the third quarter 2002 following approval of the NYSDEC. Effluent samples have been collected and analyzed during subsequent quarterly sampling events. The analytical results of the effluent have consistently met the DEC'S Effluent Limitations, and have generally had non-detectable concentrations of VOCs. **Tables 1** and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on **Figure 4.** This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

On May 2, 2007 a Site inspection was performed by the EPA's George Jacob as part of the project's Five Year Review. Also in attendance were Richard Krauser (EPA), John Grathwol (DEC), Chris Rockwell (PRP Group), Matt Lapp and Will Torres (ECOR). No issues were identified during the inspection.

3J OPERATIONAL PROBLEMS ENCOUNTERED

As mentioned in Section 3.0, normal operation of the GWTS was stopped due to clogging of the effluent pipe. The system would only remain on by keeping PW-1 running and intermittently cycling PW-2 and PW-3.

The system continued to be run utilizing only PW-1 with PW-2 and PW-3 cycled intermittently until the system was shut down on September 12 to perform an in-situ bioremediation injection on September 18 2007.

4.0 QUARTERL Y SITE MONITORING E VENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on September 12, 2007 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23,2003). Groundwater samples were collected from monitoring wells MW-1, MW-4, MW-10B and pumping wells PW-1, PW-2 and PW-3 using EPA's low-flow sampling procedures, in accordance with the QAPP. A summary of the field parameter measurements is presented in **Table 3.** A copy of field notes collected during the sampling event is included in **Appendix A.** The preserved groundwater samples were collected and analyzed by Severn Trent Laboratories (STL), Buffalo, New York. A summary of Site groundwater elevations is provided in **Table 4.**

4.2 LABORATORY ANALYSIS/GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table** 5. The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater sample (MW-1) was analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), methylene chloride (Med), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 1,1-DCA, 1,1-DCE, MeCI, TCA, TCE, toluene, VC and cis-l,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 200 micrograms per liter (ug/L) (TCA at monitoring well MW-1). Currently, only 1,1-DCA, and TCA are present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

Chemical	Groundwater Cleanup Level (ug/L)
1,1-Dichloroethane	5
1,1 -Diclhloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

Groundwater quality data is depicted on **Figure 5** with those constituents detected above the applicable clean-up standard are highlighted in yellow.

43 DATA VALIDATION

As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix B.**

5.0 PLANS FOR NEXT QUARTER

ECOR submitted an in-situ bioremediation applicability study to the PRP group for review. The PRP Group requested an independent assessment of the data and recommendation prior to implementation. The independent assessment was completed during June 2006. The findings indicate that an in-situ bioremediation process may be an effective remediation technology. A work plan was prepared and approved by the EPA.

The Injection was performed on September 18-20, 2007. The next quarterly groundwater sampling event will be performed in December 2007 in order to determine the progress of the Bio-remediation. Following the completion of the sampling and analysis of the results it will be determined whether the GWTS will be restarted.

TABLES

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, ug/L	23	47	60	19J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12 J	16 DJ	50 U
Cis-1,2- Dichloroethene, ug/L	1.0J	1.4 J	1.0J	50 U	50 U	50 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, ug/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, ug/L	1.9J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, ug/L	499	899	1276	1124	1174	823

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, pg/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, pg/L	13J	13J	9.4 J	4.2 J	4.6 J	4.3 J
Cis-1,2- Dichloroethene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	1200	580	530	260	220 E	250 E
Trichloroethene, pg/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	1259	635	559	277	237	270

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	16	10	11	11	10
1,1-Dichloroethene, pg/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1J	2.5 J
Cis -1,2 - Dichloroethene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	10U
Methylene Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	1.8 BJ	10U
1,1,1 -Trichloroethane, pg/L	220	320	240 E	320 E	330 E	240
Trichloroethene, pg/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, pg/L	10U	10 U	3.3 J	5.0 U	5.0 U	10U
Vinyl Chloride, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	10U
Total Confident VOCs, pg/L	238	339	256	337	348	253

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	12	20	19J	18D.J	20
1,1-Dichloroethene, ug/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10U	10 U	10U	25 U	20 U	10U
Methylene Chloride, ug/L	15 B	10 U	3.1 BJ	16 J	12 B,D,J	8.5 B,J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, ug/L	2.8 J	2.7 J	• 3.3 J	25 U	20 U	3.7 J
Toluene, ug/L	2.6 J	10U	10U	25 U	20 U	10 U
Vinyl Chloride, ug/L	10 U	10 U	10U	25 U	20 U	10 U
Total Confident VOCs, ug/L	246	276	376	425	390	407

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/2002	8/29/2002	9/18/2002	10/29/2002	11/25/2002	12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, ug/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, ug/L	2.6 J	1.3J	1.8J	3.0 J	2.4 DJ	2.8 J
Cis-1,2- Dichloroethene, ug/L	10U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	10U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, pg/L	210	150	190	170	160 D	150
Trichloroethene, pg/L	10U	1.9J	1.9 J	2.5 J	10 U	1.9 J
Toluene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Vinyl Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Total Confident VOCs, pg/L	222	162	202	184	172	161

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	1/17/2003	2/19/2003	4/30/2003	6/23/2003	7/30/2003	8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10U	10U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	10U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6J	10U	10U	1.2J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10U	10 U	5.0 U	5.0 U
Vinyi Chloride, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	9/24/2003	10/23/2003	11/20/2003	12/3/2003	1/29/2004	3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.8 DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	180 D	170 D	92	110	1.9J	96
Trichloroethene, pg/L	2.0 DJ	10U	1.1 J	1.6J	5.0 U	1.0J
Toluene, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	10U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	191	174	98	118	2	104

Sampling Event	43/GW	44/GW	45/GW	46/GW	47/GW	48/GW
Date	5/20/2004	6/16/2004	7/15/2004	8/26/2004	9/14/2004	10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.5	10 D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, pg/L	5.0 U	10U	2.3 J	5.0 U	10 U	2.3 J
Cis-1,2- Dichloroethene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, pg/L	150	180 D	190	74	170 D	90
Trichloroethene, pg/L	5.0 U	10U	1.6 J	5.0 U	10 U	1.1 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, pg/L	156	190	201	77	179	97

Sampling Event	49/GW	50/GW	51/GW	52/GW	53/GW	54/GW
Date	12/14/2004	1/27/2005	3/22/2005	4/26/2005	5/30/2005	6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, pg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,1 -Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6J	2.2 J	5.0 U	5.0 U	1.2J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0U
Total Confident VOCs, pg/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	55/GW	56/GW	57/GW	58/GW	59/GW	60/GW
Date	7/28/2005	8/29/2005	9/13/2005	10/18/2005	11/22/2005	12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	10	9.5 J	2.3 J	7.1J	5.2 J	2.7 J
1,1-Dichloroethene, ug/L	4.8	3.1J	0.64 J	1.5J	2.7 J	0.84 J
Cis -1,2 - Dichloroethene, ug/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Methylene Chloride, pg/L	1.0 U	2.4 J	5.0 U	10 U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, ug/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Vinyl Chloride, pg/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Total Confident VOCs, pg/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event	61/GW	62/GW	63/GW	64/GW	65/GW	66/GW
Date	1/19/2006	2/24/2006	3/27/2006	4/20/2006	5/25/2006	6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, pg/L	1.7 J	1.3 J	1.1 J	1.3J	1.5 J	0.94 J
Cis-1,2- Dichloroethene, pg/L	5.0 U	10U	5.0 U	10 U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.1 BJ	5.0 U	10U	1.3J	5.0 U
1,1,1 -Trichloroethane, pg/L	170	100	110	140	160	80
Trichloroethene, pg/L	1.3 J	0.87 J	0.95 J	1.0 J	1.2J	0.72 J
Toluene, pg/L	5.0 U	10U	5.0 U	10U	10 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	10U	10 U	5.0 U
Total Confident VOCs, pg/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event	67	68	69	70	71	72
Date	7/18/2006	8/7/2006	9/14/2006	10/12/2006	11/22/2006	12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1.1-Dichloroethene, pg/L	1.6J	1.2 J	4.7 J	1.4 J	2.3 J	1.3J
Cis-1,2- Dichloroethene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0J	1.8J	0.64 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Byron Barrel and Drum Site
Groundwater Treatment System
Influent Analytical Results
ECOR Solutions, Inc.

Sampling Event	73	74	75	76	77	78
Date	1/18/2007	2/28/2007	3/21/2007	4/30/2007	5/23/2007	6/27/2007
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.8J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1-Dichloroethene, ug/L	0.64 J	2.7 DJ	1.5J	2.8 J	2.0 J	0.88 J
Cis-1,2- Dichloroethene, ug/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	1.0 DJ	10 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	62	170 D	230	210 D	200 D	180 D
Trichloroethene, ug/L	0.78 J	1.3 DJ	10 U	1.1 J	1.2 J	0.67J
Toluene, Mg/L	5.0 U	10U	10 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	10 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, Mg/L	65.22	180.6	245.5	222.1	211.9	186.55

Sampling Event	79	80	81
Date	7/24/2007	8/22/2007	9/12/2007
Field Influent pH, std pH units	7.57	7.85	7.65
Total Suspended Solids, mg/L	NA	NA	NA
1,1-Dichloroethane, ug/L	6.6	5.9	7.1
1,1-Dichloroethene, ug/L	5.2	1.0 J	10 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	10 U
Methylene Chloride, ug/L	5.0 U	5.0 U	10 U
1,1,1-Trichloroethane, pg/L	230 D	140 D	160
Trichloroethene, ug/L	0.82 J	0.81J	10 U
Toluene, Mg/L	5.0 U	5.0 U	10 U
Vinyl Chloride, M3/L	5.0 U	5.0 U	10 U
Total Confident VOCs, *pgtl*	242.62	147.71	167.1

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.
E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	1.5 J	5.0 U	1.5J	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1,1 - Trichloroethane, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH. std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2 - Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3 J	2.8 B,J
1,1,1 -Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5 J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.08	8.23	6.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dlchloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 - Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5J	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichioroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Byron Barrel and Drum Site
Groundwater Treatment System
Effluent Analytical Results
ECOR Solutions, Inc.

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	1.0 U	5-0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, pg/L	1.0 U	5-0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW	47/GW
Date	12/14/2006	3/21/2007	6/27/2007	9/12/2007
Field Effluent pH, std pH units	8.36	8.44	8-39	8.63
Total Suspended Solids, mg/L	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5-0 U	5.0 U	5.0 U
Cis-1.2- Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5-0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.
E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
Byron Barrel and Drum Site
Field Chemistry Readings
Quarterly Sampling Event
September 12, 2007

Parameter / Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW23	1050	13.9	38	7.09	0.5	3.42	721
	1055	13.6	39	7.07	0.5	3.38	721
	1100	13.5	40	7.07	0.5	3.36	722
	1105	13.3	40	7.07	0.5	3.33	723
	1110	13.3	39	7.07	0.5	3.32	723
	1115	13.4	40	7.06	0.5	3.30	723
	1120	13.5	40	7.07	0.5	3.28	723
MW-4-9/GW23	1140	13.8	43	7.62	0.5	3.80	733
	1145	13.7	42	7.64	0.5	3.77	720
	1150	13.5	42	7.64	0.5	3.74	719
	1155	13.4	42	7.65	0.5	3.71	715
	1200	13.5	41	7.66	0.5	3.70	710
	1205	13.6	40	7.67	0.5	3.68	710
	1210	13.6	40	7.65	0.5	3.67	711
MW-10B-9/GW23	1245	13.1	42	7.23	0.4	2.70	674
	1250	12.5	41	7.15	0.4	2.67	672
	1255	12.5	40	7.09	0.4	2.64	673
	1300	12.5	39	7.09	0.4	2.64	673
	1305	12.6	39	7.09	0.4	2.62	673
	1310	12.6	38	7.09	0.4	2.60	672
	1315	12.7	38	7.09	0.4	2.57	672
PW-1/GW22	1330	17.5	35	7.61	0.5	8.16	711
PW-2/GW22	1335	13.7	38	7.63	0.5	8.21	714
PW-3/GW22	1340	16.5	34	7.79	0.5	8.09	705

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

Table 4
Byron Barrel and Drum Site
Groundwater Elevations for
September 2007 Sampling Event

Operator: **P. Little**

Date: **9/12/2007**

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	wc ft
PW-1	9.43	642.82	633.39	–	–
PW-2	7.97	641.34	633.37	–	–
PW-3	7.73	641.11	633.38	–	–
Monitoring Wells					
MW-1	6.56	639.63	633.07	11.61	5.05
MW-2	12.92	646.36	633.44	15.06	2.14
MW-4	5.30	638.56	633.26	11.50	6.20
MW-1 OB	10.98	644.44	633.46	20.32	9.34
MW-21	9.39	642.52	633.13	27.87	18.48
Residential	17.42	650.78	633.36	35.16	17.74
Piezometers					
P2-1	9.22	643.11	633.89	27.02	17.80
PZ-2	8.98	642.39	633.41	27.26	18.28

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	**5**	**5**	**5**	**5**	**2**
MW-1	3/20/2002	639.63	5.24	634.39	**86**	**49**	**NA**	**5 U**	**1700**	2 J	5 U	**2 J**
	6/12/2002	639.63	5.07	634.56	**81**	**38**	**NA**	**5 U**	**1600**	3 J	5 U	**5 U**
	9/18/2002	639.63	7.15	632.48	**13**	13 **J**	**NA**	**5 UJ**	**350**	5 U	5 U	**5 U**
	12/18/2002	639.63	5.62	634.01	**42**	37 **J**	**NA**	25 **U**	**1200**	5 J	25 U	25 **U**
	4/29/2003	639.63	4.53	635.10	**57**	**34**	**NA**	25 **U**	**1300 J**	25 U	25 U	25 **U**
	6/24/2003	639.63	5.36	634.27	**32**	**24**	**NA**	**5 U**	**720**	**4** J	5 U	**5 U**
	9/24/2003	639.63	6.72	632.91	24 **J**	17 **J**	**NA**	25 **U**	**580**	25 U	25 U	25 **U**
	12/3/2003	639.63	5.53	634.10	33 **J**	28 **J**	**NA**	40 **U**	**860 J**	40 U	40 U	40 **U**
	3/30/2004	639.63	3.40	636.23	30 **J**	**31**	**NA**	25 **U**	**830 J**	25 UJ	25 U	25 **U**
	6/16/2004	639.63	4.20	635.43	**26**	22 **J**	**NA**	25 **UJ**	**870**	25 U	25 U	25 **U**
	9/14/2004	639.63	4.56	635.07	**28**	**26**	**NA**	25 **U**	**730**	25 U	25 U	25 **U**
	12/14/2004	639.63	4.61	635.02	**31**	**26**	**NA**	25 **U**	**760**	25 UJ	25 U	25 **U**
	3/22/2005	639.63	4.32	635.31	**41**	**110**	**NA**	**5 U**	**830**	**5**	5 U	**5 U**
	6/7/2005	639.63	5.45	634.18	10 **J**	14 **J**	**NA**	13 **J**	**340**	50 **U**	50 UJ	50 **U**
	9/13/2005	639.63	6.89	632.74	**14**	**16**	**NA**	**5 U**	**410**	2 J	5 UJ	**5 U**
	12/20/2005	639.63	4.78	634.85	24 **J**	24 **J**	**NA**	40 **U**	**580**	40 U	40 U	40 **U**
	3/26/2006	639.63	5.07	634.56	**29**	**24**	**NA**	**5 U**	**540**	**4** J	5 U	**5 U**
	6/22/2006	639.63	5.68	633.95	**7**	**9**	**NA**	**5 U**	**220**	2 J	5 U	**5 U**
	9/14/2006	639.63	5.15	634.48	**5 J**	**6 J**	**NA**	10 **U**	**190**	2 J	10 U	10 **U**
	12/7/2006	639.63	4.54	635.09	**6 J**	**9 J**	**NA**	10 **U**	**170**	2 J	10 U	10 **U**
	3/22/2007	639.63	4.19	635.44	**2 J**	**4 J**	**NA**	10 **U**	**100**	2 J	10 U	10 **U**
	6/14/2007	639.63	5.30	634.33	**6**	**3 J**	**NA**	**5 U**	**200**	2 J	5 U	**5 U**
	9/12/2007	639.63	6.56	633.07	**7 J**	**3 J**	**NA**	20 **U**	**200**	20 U	20 U	20 **U**

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)							
		Groundwater Cleanup Levels (ug/L):			**5**	5	NA	5	5	5	**5**	2
MW-4	3/20/2002	638.56	4.79	633.77	17 **J**	14 J	NA	25 U	**450**	10 J	25 **U**	25 U
	6/12/2002	638.56	4.48	634.08	**3 J**	2 J	NA	5 U	83	8	**5 U**	5 U
	9/18/2002	638.56	6.04	632.52	**5 U**	5 UJ	NA	5 UJ	27	5	**5 U**	5 U
	12/18/2002	638.56	5.22	633.34	**40**	**24**	NA	5 U	**200**	8	**5 U**	5 U
	4/29/2003	638.56	4.50	634.06	**31**	13 J	NA	25 U	**530**	25 U	25 **U**	25 U
	6/24/2003	638.56	4.58	633.98	**5 UJ**	5 UJ	NA	5 U	17 J	4 J	**5 U**	5 UJ
	9/24/2003	638.56	5.91	632.65	**35**	9 J	NA	10 U	**240**	8 J	10 **U**	10 U
	12/3/2003	638.56	4.98	633.58	**65**	17 J	NA	20 U	**550**	11 J	20 **U**	20 U
	3/30/2004	638.56	4.15	634.41	**12**	5	NA	5 U	**130**	3 J	**5 U**	5 U
	6/16/2004	638.56	3.64	634.92	15 **J**	25 UJ	NA	25 UJ	**150**	25 U	25 **U**	25 U
	9/14/2004	638.56	3.71	634.85	11 **J**	25 U	NA	25 U	87	25 U	25 **U**	25 U
	12/14/2004	638.56	3.97	634.59	11 **J**	25 U	NA	25 U	67	25 U	25 **U**	25 U
	3/22/2005	638.56	3.55	635.01	50 **U**	50 U	NA	50 UJ	87	50 U	50 **U**	50 U
	6/7/2005	638.56	4.25	634.31	**5 U**	5 U	NA	5 U	8	1 J	**5 U**	5 U
	9/13/2005	638.56	5.84	632.72	**5 U**	5 U	NA	5 U	**11**	2 J	**5 U**	5 U
	12/20/2005	638.56	4.75	633.81	**4 J**	25 U	NA	25 U	48	25 U	25 **U**	25 U
	3/25/2006	638.56	4.32	634.24	**5 U**	5 U	NA	5 U	8	1 J	**5 U**	5 U
	6/22/2006	638.56	4.50	634.06	**5 U**	5 U	NA	5 U	9	1 J	**5 U**	5 U
	9/14/2006	638.56	3.92	634.64	**5 U**	5 U	NA	5 U	**13**	2 J	**5 U**	5 U
	12/7/2006	638.56	3.64	634.92	25 **U**	25 U	NA	25 U	6 J	25 U	25 **U**	25 U
	3/22/2007	638.56	3.24	635.32	**5 U**	5 U	NA	5 U	**10**	1 J	**5 U**	5 U
	6/14/2007	638.56	4.50	634.06	**5 U**	5 U	NA	5 U	**10**	1 J	**5 U**	5 U
	9/12/2007	638.56	5.30	633.26	**5 U**	5 U	NA	5 U	**14**	2 J	**5 U**	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
MW-10B	3/21/2002	644.44	9.43	635.01	5 U	5 U	NA	5 U	42	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	5 U	5 UJ	NA	5 UJ	7	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	5 U	5 U	NA	5 U	52	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	5 U	5 U	NA	5 U	8	5 U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	5 U	5 U	NA	5 U	3 J	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	5 U	5 U	NA	5 U	7	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	5 U	5 U	NA	5 U	17	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	5 U	5 U	NA	5 U	14	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	5 U	5 U	NA	5 U	11	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	5 U	5 U	NA	5 U	5	5 U	5 U	5 U
	3/25/2006	644.44	9.28	635.16	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	5 U	5 U	NA	5 U	6	5 U	5 U	5 U
	9/12/2007	644.44	10.98	633.46	5 U	5 U	NA	5 U	1 J	5 U	5 U	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (tt)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	**5**	**NA**	**5**	5	**5**	5	2
MW-21	3/26/1999	NA	NA	NA	1 U	**1 U**	**1 U**	**2 U**	1 U	**1 U**	**1 u**	1 U
	3/21/2002	642.52	7.70	634.82	25 U	25 **U**	**NA**	**25 U**	25 U	**25 U**	25 **U**	25 U
	6/12/2002	642.52	7.69	634.83	25 U	25 **U**	**NA**	**25 U**	25 U	**25 U**	**5 BJ**	25 U
	9/17/2002	642.52	9.50	633.02	5 U	**5 UJ**	**NA**	**5 UJ**	5 U	**5 U**	**5 U**	5 U
	12/17/2002	642.52	8.23	634.29	5 U	**5 UJ**	**NA**	**5 U**	5 UJ	**5 U**	**5 U**	5 U
	4/30/2003	642.52	7.91	634.61	25 U	25 **U**	**NA**	25 **U**	25 U	25 **U**	**25 U**	25 U
	3/30/2004	642.52	7.56	634.96	5 UJ	**5 UJ**	**NA**	**5 UJ**	5 UJ	**5 UJ**	**5 UJ**	5 UJ
	3/22/2005	642.52	7.42	635.10	25 U	25 **U**	25 **U**	25 **U**	25 U	25 **U**	**25 U**	25 U
	3/25/2006	642.52	7.78	634.74	25 U	25 **U**	25 **U**	**25 U**	25 U	25 **U**	25 **U**	25 U
	3/22/2007	642.52	7.38	635.14	20 U	20 **U**	20 **U**	**20 U**	20 U	20 **U**	20 **U**	20 U
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	6/12/2002	650.78	15.62	635.16	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	9/17/2002	650.78	17.50	633.28	5 U	**5 UJ**	**NA**	**5 UJ**	5 U	**5 U**	**5 U**	5 U
	12/17/2002	650.78	16.52	634.26	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	4/30/2003	650.78	17.74	633.04	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	3/30/2004	650.78	15.47	635.31	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	3/22/2005	650.78	15.24	635.54	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	3/25/2006	650.78	15.75	635.03	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U
	3/22/2007	650.78	15.09	635.69	5 U	**5 U**	**NA**	**5 U**	5 U	**5 U**	**5 U**	5 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PV\M	12/21/1998	NA	NA	NA	20 U	5 J	20 U	9 BJ	270	11 J	20 U	20 U
	12/27/2001	NA	NA	NA	15	6.2	5 U	5 U	280	5.2	5 U	5 U
	3/20/2002	642.82	NM	NM	11	5	5 U	5 U	320	3 J	5 U	5 U
	6/12/2002	642.82	NM	NM	18	3 J	5 U	5 U	380	2 J	5 U	5 U
	9/18/2002	642.82	NM	NM	12	2 J	5 U	5 UJ	270	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	8	5	5 U	5 U	160	2 J	5 U	5 U
	4/30/2003	642.82	20.96	621.86	11	2 J	5 U	5 U	180	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	12	2 J	5 U	5 U	190	2 J	5 U	5 U
	9/24/2003	642.82	22.59	620.23	8	5 U	5 U	5 U	120	5 U	5 U	5 U
	12/3/2003	642.82	21.74	621.08	8	2 J	5 U	5 U	150	2 J	5 U	5 U
	3/30/2004	642.82	21.80	621.02	6	2 J	5 U	5 U	150	5 U	5 U	5 U
	6/16/2004	642.82	19.08	623.74	13	3 J	5 U	5 UJ	380	2 J	5 U	5 U
	9/14/2004	642.82	20.62	622.20	10	2 J	5 U	5 U	210	5 U	5 U	5 U
	12/14/2004	642.82	21.23	621.59	6	2 J	5 U	5 U	140	5 U	5 U	5 U
	3/22/2005	642.82	22.65	620.17	15	23	5 U	5 U	200 J	2 J	5 U	5 U
	6/7/2005	642.82	21.50	621.32	10	2 J	10 U	2 U	59	1 J	10 U	10 U
	9/13/2005	642.82	21.73	621.09	3 J	0.9 J	5 U	5 U	73	0.5 J	5 U	5 U
	12/19/2005	642.82	20.98	621.84	9	2 J	5 U	5 U	140	2 J	5 U	5 U
	3/26/2006	642.82	21.44	621.38	4 J	0.9 J	5 U	5 U	76	0.6 J	5 U	5 U
	6/22/2006	642.82	21.28	621.54	4 J	1 J	5 U	5 U	77	0.8 J	5 U	5 U
	9/14/2006	642.82	8.23	634.59	9 DJ	25 U	25 U	25 U	230	25 U	25 U	25 U
	12/7/2006	642.82	20.82	622.00	6 J	2 J	10 U	10 U	160	1 J	10 U	10 U
	3/22/2007	642.82	14.50	628.32	6 J	2 J	10 U	10 U	170	1 J	10 U	10 U
	6/14/2007	642.82	13.43	629.39	9 J	2 J	10 U	10 U	280	2 J	10 U	10 U
	9/12/2007	642.82	9.43	633.39	5 J	10 U	10 U	10 U	130	10 U	10 U	10 U

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	**5**	5	**5**	5	**2**
PW-2	12/27/2001	NA	NA	NA	**68**	**23**	1.4 **J**	**5 U**	**960**	4 J	5 U	1.1 **J**
	3/20/2002	641.34	NM	**NM**	**24**	**13**	**5 U**	**5 U**	**720**	2 J	5 U	**5 U**
	6/12/2002	641.34	NM	**NM**	**18**	**10**	**5 U**	**5 U**	**370**	2 J	5 U	**5 U**
	9/18/2002	641.34	NM	**NM**	**5**	**4 J**	**5 U**	**5 UJ**	**160**	5 U	5 U	**5 U**
	12/18/2002	641.34	17.68	623.66	**12**	**14**	10 **U**	10 **U**	**280**	10 U	10 U	10 **U**
	4/30/2003	641.34	16.82	624.52	**11**	**6**	**5 U**	**5 U**	**200**	2 J	5 U	**5 U**
	6/23/2003	641.34	19.41	621.93	**8**	**5**	**5 U**	**5 U**	**180**	5 U	5 U	**5 U**
	9/24/2003	641.34	17.45	623.89	**6**	**2 J**	**5 U**	**5 U**	**120**	5 U	5 U	**5 U**
	12/3/2003	641.34	18.78	622.56	**6**	**3 J**	**5 U**	**5 U**	**160**	5 U	5 U	**5 U**
	3/30/2004	641.34	19.24	622.10	**4 J**	**3 J**	**5 U**	**5 U**	**140**	5 U	5 U	**5 U**
	6/16/2004	641.34	18.58	622.76	**5**	**5 U**	**5 U**	**5 UJ**	**120**	5 U	5 U	**5 U**
	9/14/2004	641.34	18.25	623.09	**5**	**4 J**	**5 U**	**5 U**	**160**	5 U	5 U	**5 U**
	12/14/2004	641.34	17.63	623.71	**8**	**5**	**5 U**	**5 U**	**160**	2 J	5 U	**5 U**
	3/22/2005	641.34	19.33	622.01	**5**	**11**	**5 U**	**5 U**	**140**	5 U	5 U	**5 U**
	6/7/2005	641.34	19.40	621.94	**3 J**	**2 J**	**5 U**	**5 U**	**70**	1 J	5 U	**5 U**
	9/13/2005	641.34	19.52	621.82	**3 J**	**3 J**	**5 U**	**5 U**	**94** J	2 J	5 U	**5 U**
	12/19/2005	641.34	17.35	623.99	**1 J**	**5 U**	**5 U**	**5 U**	**30**	0.5 J	5 U	**5 U**
	3/26/2006	641.34	17.22	624.12	**5**	**1 J**	**5 U**	**5 U**	54	0.8 J	5 U	**5 U**
	6/22/2006	641.34	18.59	622.75	**4 J**	**2 J**	10 **U**	10 **BL**	**170**	1 J	10 U	10 **U**
	9/14/2006	641.34	6.75	634.59	**3 DJ**	**1 DJ**	10 **U**	10 **U**	**92**	1 DJ	10 U	10 **U**
	12/7/2006	641.34	6.11	635.23	**9 DJ**	**3 DJ**	10 **U**	10 **U**	**230**	2 J	10 U	10 **U**
	3/22/2007	641.34	4.19	637.15	**8 J**	**4 J**	10 **U**	10 **U**	**90**	1 J	10 U	10 **U**
	6/14/2007	641.34	4.72	636.62	**8 J**	**2 J**	20 **U**	20 **U**	**270**	20 U	20 U	20 **U**
	9/12/2007	641.34	7.97	633.37	**5 J**	**1 J**	10 **U**	10 **U**	**140**	10 U	10 U	10 **U**

Table 5
Byron Barrel and Drum Site
Historic Groundwater Quality Table - Select Analytes
ECOR Solutions, Inc.

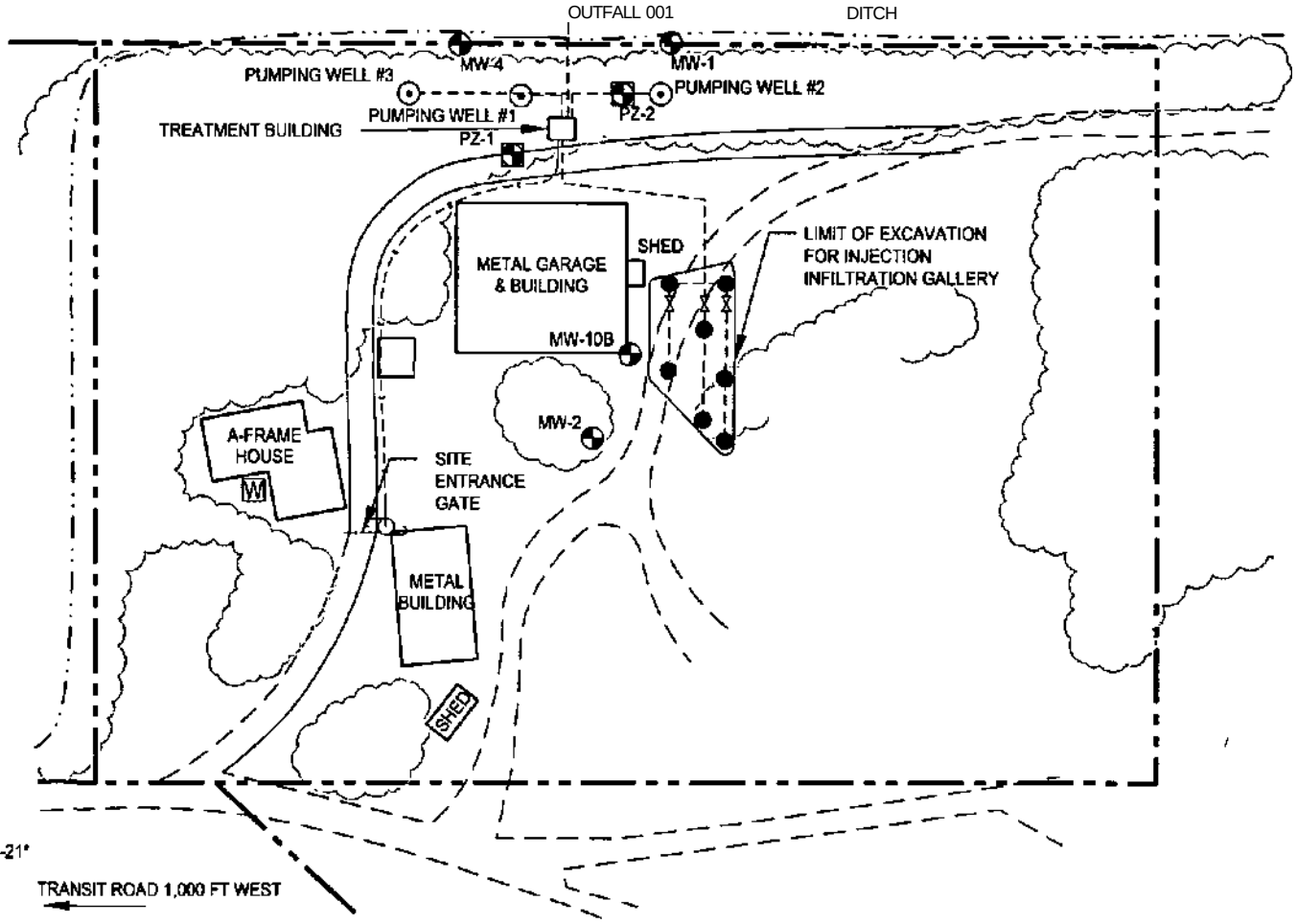
Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	2
PW-3	12/27/2001	NA	NA	**NA**	**5 U**	5 U	5 U	5 U	**16**	1.7 J	5 U	5 U
	3/20/2002	641.11	NM	**NM**	**5 U**	5 U	5 U	5 U	**8**	1 J	5 U	5 U
	6/12/2002	641.11	NM	**NM**	**5 U**	5 U	5 U	5 U	**6**	5 U	5 U	5 U
	9/18/2002	641.11	**NM**	**NM**	**5 U**	5 UJ	5 U	5 UJ	**4 J**	5 U	5 U	5 U
	12/18/2002	641.11	19.90	621.21	**5 U**	5 U	5 U	5 U	**4 J**	5 U	5 U	5 U
	4/30/2003	641.11	19.46	621.65	**5 U**	5 U	5 U	5 U	**3 J**	5 U	5 U	5 U
	6/23/2003	641.11	18.55	622.56	**5 U**	5 U	5 U	5 U	**3 J**	5 U	5 U	5 U
	9/24/2003	641.11	20.97	620.14	**5 U**	5 U	5 U	5 U	**2 J**	5 U	5 U	5 U
	12/3/2003	641.11	20.28	620.83	**5 U**	5 U	5 U	5 U	**3 J**	5 U	5 U	5 U
	3/30/2004	641.11	20.52	620.59	**5 U**	5 U	5 U	5 U	**2 J**	5 U	5 U	5 U
	6/16/2004	641.11	19.65	621.46	**5 U**	5 U	5 U	5 UJ	**2 J**	5 U	5 U	5 U
	9/14/2004	641.11	20.91	620.20	**5 U**	5 U	5 U	5 U	**2 J**	5 U	5 U	5 U
	12/14/2004	641.11	18.33	622.78	**5 U**	5 U	5 U	5 U	**2 J**	5 U	5 U	5 U
	3/22/2005	641.11	22.17	618.94	**5 U**	5 U	5 U	5 U	**2 J**	5 U	5 U	5 U
	6/7/2005	641.11	20.30	620.81	**5 U**	5 U	5 U	5 U	**5 U**	5 U	5 U	5 U
	9/13/2005	641.11	21.52	619.59	**5 U**	5 U	5 U	5 U	**1 J**	5 U	5 U	5 U
	12/19/2005	641.11	20.36	620.75	**5 U**	5 U	5 U	5 U	**1 J**	5 U	5 U	5 U
	3/26/2006	641.11	22.31	618.80	**5 U**	5 U	5 U	5 U	**1 J**	5 U	5 U	5 U
	6/22/2006	641.11	20.72	620.39	**5 U**	5 U	5 U	5 U	**1 J**	5 U	5 U	5 U
	9/14/2006	641.11	6.53	634.58	**5 U**	5 U	5 U	5 U	**2 J**	5 U	5 U	5 U
	12/7/2006	641.11	7.81	633.30	**6 DJ**	2 DJ	5 U	5 U	**170**	1 J	5 U	5 U
	3/22/2007	641.11	5.45	635.66	**7**	4 J	5 U	5 U	**210**	1 J	5 U	5 U
	6/14/2007	641.11	5.18	635.93	**9 J**	3 J	20 U	20 U	**260**	20 U	20 U	20 U
	9/12/2007	641.11	7.73	633.38	**4 J**	1 J	10	10	**130**	10 U	10 U	10 U

Notes:
All concentrations in micrograms per liter (ug/L)
Exceedences of the groundwater cleanup standard are indicated in bold.
NM = Not Measured
NA = Not Available

Table 6
Schedule of Sampling and Analysis
Byron Barrel & Drum Site
Byron, New York

Month	Event	Monitoring Well to be Sampled	Constituents to be Analyzed
March	First Quarter Monitoring Event	MW-1 MW-4 MW-1 OB MW-21 MW-Residential	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
June	Second Quarter Monitoring Event	MW-1 and MW-4	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
September	Third Quarter Monitoring Event	MW-1 and MW-4 MW-1 OB	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride
December	Fourth Quarter Monitoring Event	MW-1 and MW-4	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl Chloride

FIGURES



LEGEND

«	MONITORING WELL
	FORMER RESIDENTIAL WELL
	PIEZOMETER WELL
	INJECTION GALLERY PIEZOMETER WELL
X	INJECTION GALLERY VALVE
©	PUMPING WELL
	UTILITY POLE
	PROPERTY LINE
	FENCE
	TREELINE
	NEW GRAVEL ROAD
	PRE-EXISTING GRAVEL ROAD
	DITCH
	ELECTRIC & PHONE LINE
	REINJECTION PIPIING

•NOTE: UW-21 IS J0O FEET WEST OF PROPERTY LINE

SOURCE: EHM C1O SERVICES

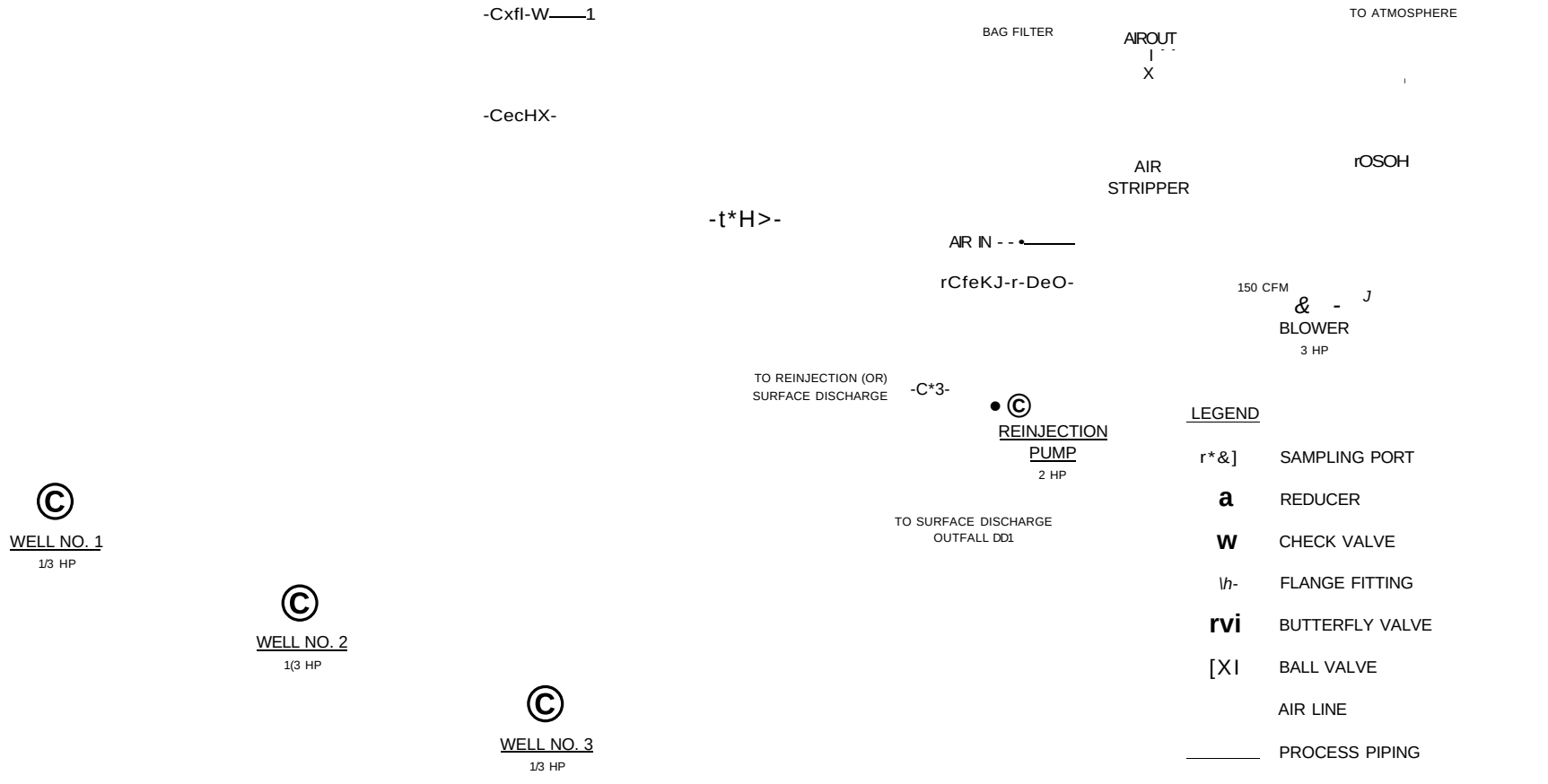
SITE PLAN

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
	07-25-06	1

ECOR



GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I. West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
	09-02-05	2

SOURCE: ERM C*D SERVICES

Figure 3
Byron Barrel and Drum Site
Influent Concentration (Total VOCs) Vs. Time
July 2001 to Present

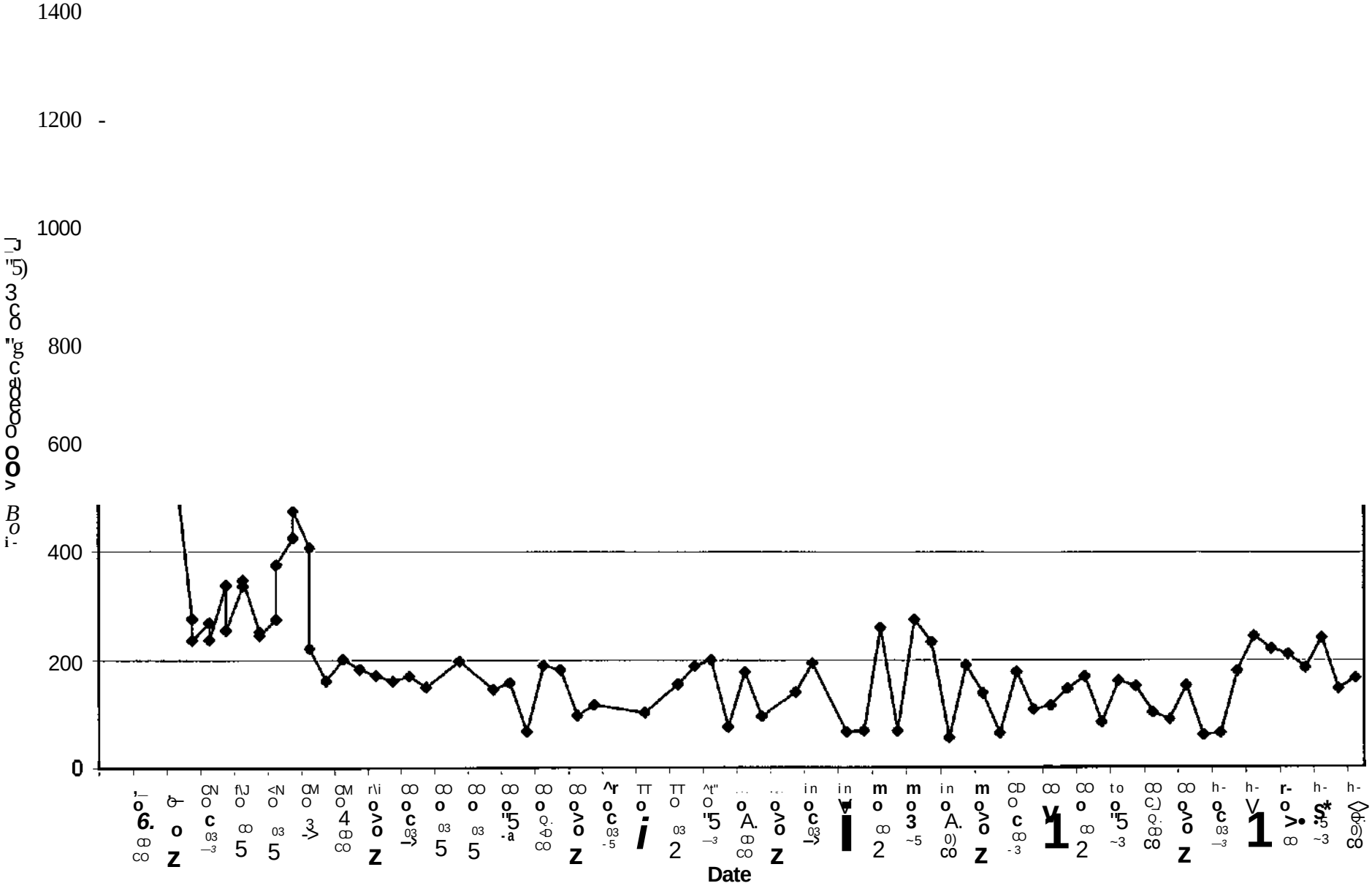
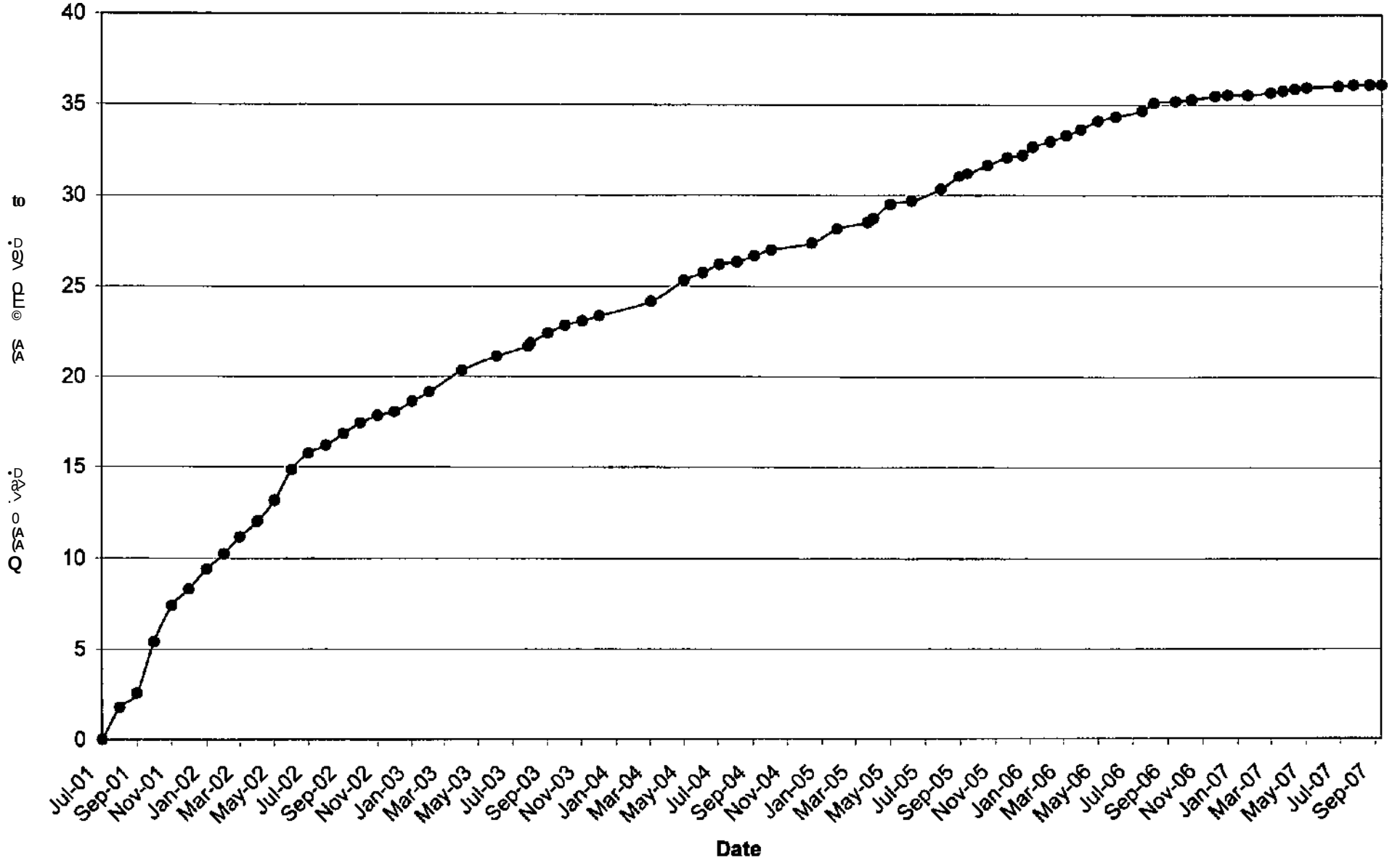
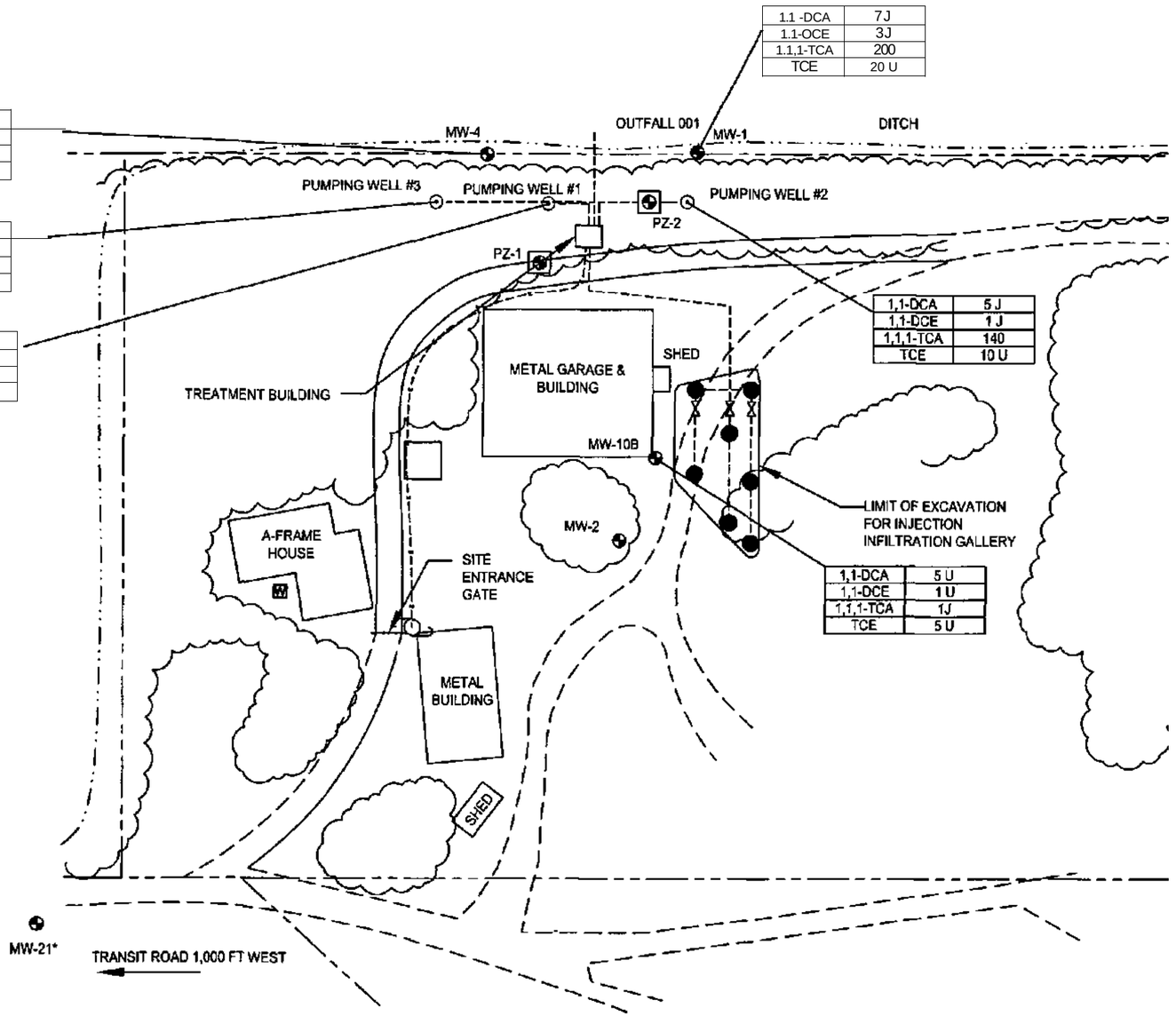


Figure 4
Byron Barrel and Drum Site
Cumulative Dissolved-phase Mass Removed (Total VOCs)
July 2001 To Present





LEGEND

- ® MONITORING WELL
- *m* FORMER RESIDENTIAL WELL
- **a** PIEZOMETER WELL
- • INJECTION GALLERY PIEZOMETER WELL
- *i* INJECTION GALLERY VALVE
- © PUMPING WELL
- *<u** UTILITY POLE
- PROPERTY LINE
- --' TREELINE
- NEW GRAVEL ROAD
- PRE-EXISTING GRAVEL ROAD
- FENCE
- DITCH
- ELECTRIC & PHONE LINE
- REINJECTION PIPIING

1,1-DCA	1,1-DICHLOROETHANE
1,1-DCE	1,1 DICHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
TCE	TRICHLOROETHENE

INDICATES THE PARAMETER WAS NOT DETECTED AT OR ABOVE REPORTED LIMIT

ESTIMATED VALUE

EXCEEDENCES

•NOTE: MW-21 IS 200 FEET WEST OF PROPERTY LINE

GROUNDWATER QUALITY MAP
12 SEPTEMBER 2007
BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET 60 | DATE 12-12-07 | FIGURE 5

APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: <f~a*<n

Job #: 01501.002

Sample ID: Al*/- /•? / t v ?3

Well ID: /"\«/- t Time onsite: Time Offsite:

Samplers: P.t ,+Jk

U.&v

Depth of Weil (from top of casing) V - ^ ' / * Time: //J*""

Static water level (from top of casing) 6 *S£ Time: telX

Purging Viet hod:
Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tes>ts:

Time	Rowrate (mUmin) / purge volume (mL)		Temp. °C	ORP mV	pH 3td. Units	TDS	DO mg/L	Spec. Cond. mS/cm
10 SO	3 o /*t /&**		13.1	33	1.01	0*&	3-il.	121
iosr			13.6	3?	7.07	o.s	3»3$	7=2/
// oo			I2>,£	it?	~7,ol	0.*	3*s&	72X
jlpf			I3.Z	io	I . P I	0-?	3,^1	T3LZ
ft to			/3r3	39	I . e I	O ^	3*3 x.	723
It If			/3-Y	io	7,06	&<f	3. Jo	1*3
I\A*	\	/	t3S	Ho	7.*1	o.s-	3<*#	7*3

Sampling:

Time of Sample Collectio */1£0*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other

Observations:

Weather/Temperature: ***6£'*** *&vfAC4sr*

Sample Description: ***clc***

Free Product?	Yes	No >C	Descript:
Sheen?	Yes	No %	Descript.:
Odor?	Yes	**No X**	Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: f-/^-'*?

Job #: 01501.002

Sample ID: /* o -fag- ? /f** - XI

Well ID: A] ** -f°6 Time onsite: Time Offsite:

Samplers: fil*J**< $_{\mu 3}$f $_{f}$^Qp

Depth of Well (from top of casing) aa?Z Time: fZ2o

Static water level (from top of casing) l&.^S Time: A?JT

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmin) / purge volume (mL)	Temp. °C	ORP mV	pH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
fclf	f/O / t t / / w	13. t	y*	-j.33	o.f	2.1°	67Y
lZJ^{c}	1	IZ.S	Hl	l.ff	o.^{L}/	3.-61	£•72
13.5?		IH.S'	Ho	7.*?	O.f	Jl.CY	£73
13*°		n-*	3<i	1-01	0></	7..M	/ 7 J
llof		IZC	3°>	1.01	O.i	3.-62.	£73
131°		IZ(>	32>	7°9	o.i	•z.to	67*
I3if	S /	an	3B	7*1	o.y	a-sn	£-73.

Sampling:

Time of Sample Collects *m£_*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: *WW CfisT £$°*

Sample Description:

Free Product? Yes_____ No *sX* Descript.:

Sheen? Yes_____ No °^ Descript.:

Odor? Yes_____ No ^ Descript.:

Comments:

^ *SAX*-** *A/* /*»/**

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum **Date:** ***9.-n-»l***

Job #: 01501.002

Sample ID: */yji^* ***H-9/^^-zs***

Well ID: *fxwy* Time onsite: Time Offsite:

Samplers: */< t**f-'t*

Depth of Well (from top of casing) ***//.S*v*** Time: *ijt/f*

Static water level (from top of casing) *S, ** Time://-*>

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mL)		Temp. °C	ORP mV	pH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
//V*	y*/£«v		*13.0*	*H3*	*7.4**	*o.f*	*3.&0*	*133*
*itf**			***an***	**va**	*141*	*0*5**	3,77	***nao***
*us**			*fiS*	***n***	*l.W*	*0,=>*	*3.1**	***nit***
us?			*IZ*H*	***Vz***	*l-if*	*o*S*	*1*il*	*7tr*
13.0 0			*I3S*	*HI*	*l.tt*	*a,^~*	*3 no*	*110*
*lie**			*13.**	*V**	*7,6">*	*#.r*	*3<6S*	*lio*
*1*1**	X		*I3.C*	*i/O*	*1*6S*	*O'S'*	*?,Cl*	*-111*

Sampling:

Time of Sample Collects A3A>

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other

Observations:

Weather/Temperature: *£>v?AcAjr &S*

Sample Description: cV*v-~

Free Product?	Yes	No x	Descript.:
Sheen?	Yes	No y	Descript.:
Odor?	Yes	**No y**	Descript.:

Comments:

*/*j //»us sj**fi«* & ^^ -y*

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator

Date: *<j~12-dl*

Pumping Wells	DTW	TOC Elevation	GW Elevation	TD	WC.ft.
PW-1	?>VJ	642.82	£33,3?	.	_
PW-2	1.11	641.34	633*31	_	_
PW-3	1*73	641.11	£33-33	.	.
Monitoring Wells					
MW-1	<r.jr£	639.63	g33.c>l	II. Co	S.*1
MW-2	ii-iz.	646.36	633.W	iS-et	5./y
MW-4	S.Jo	638.56	£33.2*	f*so	C*c>
MW-10B	/&,?$	644.44	€33^H	3.°.?*	<?-3y
MW-21	%31	642.52	£33**3	31.n	fe-9&
Residential	/7-V1	650.78	{33-3C	3?Jt	n,iy
Piezometers					
PZ-1	9<ZX	643.11	633*8?	zII.cX	n.$o
PZ-2	fr<?0	642.39	CZ3.W	zn.aS'	I$.21

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Pumping Well Field Chemistry Parameters

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS 9/L	DO mg/L	Spec. Cond. mS/cm
PW-1/GW_3J	/J3*	ns	3*	7, £/	o-f	& *	11/
PW-2/GW«£5	i3iy	Hi	39	1.C3	0.^	8'*'	7/Y
PW-3/GWJ22	iw*	US	* /	7,7?	0.f	g'°1	V oj-

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

Jb ***&f*t<*i->*** ***f-*.i*** ***&tc<*** ***7^<^*** ***JZsn&'-S***

APPENDIX B
Data Validation Report

Project: Byron Barrel and Drum Site
Laboratory: Severn Trent Laboratories
Sample Delivery Group: A07-A220/A07-A301
Fraction: Organic
Matrix: Aqueous
Report Date: 11/27/2007

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Severn Trent Laboratories.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report. The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

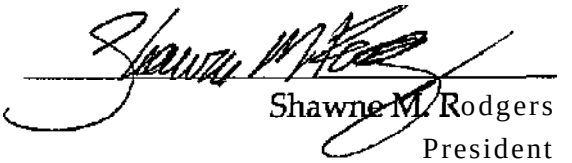
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HW-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

X	Data Completeness
X	Chain of Custody Documentation
X	Holding Times
X	Instrument Performance
X	Initial and Continuing Calibrations
X	Laboratory and Field Blank Analysis Results
X	Surrogate Compound Recoveries
X	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	Field Duplicate Analysis Results
X	Laboratory Control Sample Results
X	Internal Standard Performance
X	Qualitative Identification
X	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

11/27/2007

Date

DATA COMPLETENESS

The data package was complete.

CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

HOLDING TIMES

The holding times were met for all analyses.

INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

LABORATORY AND FIELD BLANK ANALYSIS RESULTS

The positive methylene chloride result reported for sample INF-8/1GW is qualitatively invalid due to the presence of this compound in associated laboratory method blank. USEPA protocol requires positive results for common contaminants, such as methylene chloride, that are less than or equal to ten times the associated blank contamination level, to be considered qualitatively invalid. The result has been replaced by the quantitation limit.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples MW-4-9/GW-23 and DUP-9/GW23 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Table 2. Precision is evaluated by calculating the relative percent difference (%RPD) between duplicate pair results. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses and internal acceptance criteria of twenty percent for volatile detected compounds to evaluate field duplicate samples.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

13.0 QUANTTTATION/REPORTING UMJTS

The samples presented below were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples.

Sample	Dilution Factor
INF-8/1GW	2.0
MW-1-9/GW-23	4.0
PW-l/GW-23	2.0
PW-2/GW-23	2^0

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs), have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, and revisions

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples Collected September 2007
Severn Trent Laboratories Sample Delivery Group A07-A220

SAMPLE I.D.	LABORATORY I.D		DATE COLLECTED	MATRIX	ANALYSES PERFORMED VOC	TSS
MW-1-9/GW-23	A7A22001	1	9/12/2007	Groundwater	X	
MW-4-9/GW-23	A7A22002	2	9/12/2007	Groundwater	X	
DUP-9/GW-23	A7A22003	3	9/12/2007	Groundwater	X	
MW-10B/GW-23	A7A22004	4	9/12/2007	Groundwater	X	
PW-l/GW-23	A7A22005	5	9/12/2007	Groundwater	X	X
PW-2/GW-23	A7A22006	6	9/12/2007	Groundwater	X	X
PW-3/GW-23	A7A22007	7	9/12/2007	Groundwater	X	X
Trip Blank	A7A22008	8	9/12/2007	Trip Blank	X	

VOC Volatile Organic Compounds
TSS Total Suspended Solids

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples Collected September 2007
Severn Trent Laboratories Sample Delivery Group A07-A301

SAMPLE I.D.	LABORATORY I.D		DATE COLLECTED	MATRIX	ANALYSES PERFORMED VOC
INF-8/1GW	A7A30101	1	9/12/2007	Groundwater	X
EFF-47/GW	A7A30102	2	9/12/2007	Groundwater	X
Trip Blank	A7A30103	3	9/12/2007	Trip Blank	X

VOC: Volatile Organic Compounds

Table 2 Field Duplicate Sample Results for Organic Analyses
Duplicate Samples MW-4-9/GW-23 and DUP-9/GW23

	MW-4-9/GW-23 (Kg/U		DUP-9/GW23 (Mg/L)		RPD	Comments
1,1,1-Trichloroethane	14		1	j	173.3	
Trichloroethene	2	J	ND		NC	

ECOR SOLUTIONS
ECOR SOLUTIONS - BXRON BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client Kb.

DUP-9/GW-23

Lab Name: STL Buffalo Contract:

Tab *Code:* RECNY Case No.: SAS No.: SDGNo.: 091207

Matrix: (soil/water) WATER Lab Sample ID: A7A22003

Sample wt/vol: 5.00 (g/rriL) ML Lab File ID: G9087.RR

Level.* (low/med) LOT Date Samp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/19/2007

GC Column: ZB-624 ID: 0.18 (nrn) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: <uL)

CAS NO.	COMPOUND	ODNC£fca[RATICN UNITS: (ug/L or ug/Kg) UG/L	
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	1	J
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	Chlorobenzene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachlorcethene	5	U
67-66-3	Chloroform	5	U
75-27-4	BrcmDdichloroTTiethane	5	U
124-48-1	Dibrcnxxhloromethane	5	U
78-93-3	2-Butanone	10	U
56-23-5	Carbon Tetrachloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

EGCR SOLUTIONS
EODR SOLUTIONS - BYRON BARREL & EKUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

MW-1-9/GW-23

Lab Name: STL Buffalo Gontract:

Lab Code: RECNY Case No.: _____ SAS No.: SDGNb.: 091207

Matrix: (soil/water) WATER Lab Sample ID: A7A22001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G9070.RR

Level: (low/med) LOT Date Samp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____Heated Purge: N Date Analyzed: 09/19/2007

GC Column: ZB-624 ID: 0.18 (nm) Dilution Factor: 4.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CX2K3NTRATICN UNITS: (ug/L or ug/Kg) IX3/L	Q
75-34-3	1,1-Dichloroethane	7	J
75-35-4	1,1-Dichloroethene	3	J
75-09-2	Methylene chloride	20	U
108-88-3	Toluene	20	U
71-55-6	1,1,1-Trichloroethane	200	
79-01-6	Trichloroethene	20	U
75-01-4	Vinyl chloride	20	U
71-43-2	Benzene	20	U
1330-20-7	Total Xylenes	60	U
108-90-7	Chlorobenzene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
107-06-2	1,2-Dichloroethane	20	U
127-18-4	Tetrachlorcethene	20	U
67-66-3	Chloroform	20	U
75-27-4	Bromodichlorcrrethane	20	U
124-48-1	Dibromochlorcmethane	20	U
78-93-3	2-Butanone	40	U
56-23-5	Carbon Tetrachloride	20	U
95-50-1	1,2-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U

BOOR SOLUIKONS
BOOR SOUJTIONS - BYRON BARREL & DKDM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DA3A SHEET

Client No.

MW-4-9/OJ-23

Lab Name: SIL Buffalo Contract:

Lab Code: RBCNY Case No.: SAS No.: SDG No.: 091207

Matrix: (soil/water) WATER Lab Sample ID: A7A22002

Sample wt/vol: 5.00 (g/iriL) ML Lab File ID: G9071.RR

Level: (low/med) LOT Date Sanp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/19/2007

GC Column: ZB-624 ID: 0,18 (itm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	OONCENIRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	14	
79-01-6	Trichloroethene	2	J
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	Chlorcbenzene	5	U
79-00-5	1,1,2-Trichlorcethane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
67-66-3	Chloroform	5	U
75-27-4	Bromcdicnloromethane	5	U
124-48-1	DibrcrnochlorGmethane	5	U
78-93-3	2-Butanone	10	U
56-23-5	-Carbon Tetrachloride	5	U
95-50-1	1,2-Dichlorcbenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

EOOR SOLUTICNS
ECOR SOUJTICWS - BYRCN BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DA3A SHEET

Client No.

Mtf-10B/Gtf-23

Lab Name: STL Buffalo Contract:

Lab Code: RECSTY Case No. SAS No.: SDGNo.: 091207

Matrix: (soil/water) WATER Lab Sample ID: A7A22004

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G9073.RR

Level: (low/med) LCW Date Sarrp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/19/2007

GC Column: ZB-624 ID: 0.18 (irm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	O&CENTRATICN UNITS: (ug/L or ug/K£) UG/L	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	1	J
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	Chlorobenzene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
67-66-3	Chloroform	5	U
75-27-4	Baxmodichloromethane	5	U
124-48-1	Dibromoc^oromethane	5	U
78-93-3	2-Butanone	10	U
56-23-5	Carbon Tetrachloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

EOOR SOLUTIONS
ECDR SOLUTIONS - BYRON BARREL & DRLM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

PH-l/GW-23

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: ___ SAS No.: SDG No.: 091207

I^trix: (soil/water) WATER Lab Sample ID: A7A22005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: G9088.RR

Level: (low/med) LOW Date Samp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/19/2007

GC Column: ZB-624 ID: 0.18 (nm) Dilution Factor: 2.00

Soil Extract Volums:_____(uL) Soil Aliquot Volume:_____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/K£) UG/L	Q
75-34-3	1,1-Dichloroethane	5	J
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-l,2-Dichloroethene	10	U
75-09-2	Methylene chloride	10	U
108-88-3	-Toluene	10	U
71-55-6	1,1,1-Trichloroethane	130	
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U

BOOR SOLUITCNS
EOOR SOHJHCNS - BYRCN BARREL & DRUM SITE
AQUEDUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

FW-2/GW-23

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: ___ SAS No.: SPG No.: 091207

Matrix: (soil/water) WATER Lab Sarrple ID: A7A22006

Sarrple wt/vol: 5,00 (g/mL) ML Lab File ID: G9089.RR

Level: (low/med) I£W Eate Samp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/20/2007

GC Coluitn: ZB-624 ID: 0.18 (mm) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

03CENTRATICN IKCTS:

CAS NO.	CCMEOUND	(ua/L or ua/Ka) UG/L	Q
75-34-3	1,1-Dichloroethane	5	J
75-35-4	1,1-Dichloroethene	1	J
156-59-2	cis-l,2-Dichloroethene	10	U
75-09-2	Methylene chloride	10	U
108-88-3	Toluene	10	U
71-55-6	l,l,l-Trichloroet±ane	140	
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U

11/27/2007

ECOR SOLUTIONS
ECOR SOLUTIONS - BXRQN BARREL & DRUM SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMPDS
ANALYSIS DATA SHEET

Client No.

PW-3/GW-23

Lab Narre: STL Buffalo Contract:

Lab *Code:* RECNY Case No.: SAS No.: SDGNb.: 091207

Matrix: (soil/water) WfEXER Lab Sartple ID: A7A22007

Sarrple wt/vol: 5.00 {g/rriL) ML Lab File ID: G9090.RR

Level: (low/mad) LOW Date Sarrp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/20/2007

GC Column: ZB-624 ID: 0.18 (mti) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/l^) UG/L	Q
75-34-3	1,1-Dichloroethane	4	J
75-35-4	1,1-Dichloroethene	1	J
156-59-2	cis-l^-Dichloroethene	10	U
75-09-2	Methylene chloride	10	U
108-88-3	Toluene	10	U
71-55-6	1,1,1-Trichloroethane	130	
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U

*

B33R SOLUTIONS
BOOR SOLUTIONS - BYRCN BARREL & DRUM SITE
AQUB3US ASP 2000/8260 - SELECT LIST-TABLE 5
AK&LYSIS DATA SHEET

Client No.

Trip Blank

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDGNo.: 09120?

Matrix: (soil/water) WffTER Lab Sample 3D: A7A22008

Sanple wt/vol: 5.00 (g/mL) ML Lab File ID: G9077.RR

Level: (low/msd) I£W Date Sanp/Recv: 09/12/2007 09/12/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/19/2007

GC Column: ZB-624 ID: 0.18 (rnm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) XJG/L.	Q
75-34-3	1,1-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
75-01-4	Vinyl chloride	5	U
71-43-2	Benzene	5	U
1330-20-7	Total Xylenes	15	U
108-90-7	Chlorobenzene	5	U
79-00-5	1,1/2-Trichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
67-66-3	Chloroform	5	U
75-27-4	BromDddchloromsthane	5	U
124-48-1	Dibromochloromethane	5	U
78-93-3	2-Butanone	10	U
56-23-5	Carbon Tetrachloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

PW-l/GW-23

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.: 091207

Matrix (soil/vater): WATER Lab Sample ID: A7A22005

% Solids: 0.0 Date Sartp/Recv: 09/12/2007 09/12/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			160.2	09/13/2007

Comments:

JAIMI

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample Ifo.

EW-2/Grf-23

lab Name: STL Buffalo Ctotract:

lab Code: RECNY Case No.: SAS No.: SDG No.: 091207

Matrix (soil/vater): MATER lab Sample ID: A7A22006

% Solids: 0^0 Date Samp/Recv: 09/12/2007 09/12/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	4.0	U			160.2	09/13/2007

Qarnnents:

Ecor Solutions
Ecor Solutions - Byron Barrel & Drum Site
Wet Chemistry Analysis

Client Sample No.

FW-3/GA-23

Lab Name: STL Buffalo Ctmtract:

Lab ODde: RECNY Case No.: SAS ND. : SDGNo.: 091207

Matrix {soil/water}: WATER Lab Sample ID: A7A22007

% Solids: 0.0 Date Samp/Recv: 09/12/2007 09/12/2007

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	M3/L	20.8				160.2	09/13/2007

Ocmments:

SMR 11/21/2007

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0301)

Client	Project Manager J*J	Date	Chain of Custodv Number
Eco/l		9-/2-<n	343522
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page / of**
City / State / Zip Code	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Project Name and Location (State)	**Carrier/Waybill Number**		**Special Instructions/ Conditions of Receipt**
Contract/Purchase Order/Quote No. A/vz/10 7 JS. y			

Sample I.D. No. and Description (Containers tor each sample may ba combined on one line)	Data	Time	Matrix	Containers S Preservatives	0 0 ?
TA,/f /fC/f^A	f~n~<n	Cgoo	1 * 3	I i 15 I 15	X
IW*I-I-? I^AI--2.T		II3C			1
stwy-f/Sts-ZS		\o\IO			^
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Possible Hazard identification

• Non-Hazard • Flammable Q Skin Irritant • Poison 8 • Unknown • Return To Client U Disposal By Lab D Archive For . Months

Sample Disposal

(A fee may be assessed if samples are retained ifcger than 1 month}

Turn Around Time Required

D 21 Hours D 18 Hours O 7 Days • M Days • 21 Days • Otfier,

OC Requirements (Specify)

t. Relinquish c&czz:	Date	Time	t. Received By	Date	Time
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2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

SUi c_

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DISTRIBUTION; WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK • Field Copy

EOOR SOLUTIONS
EOOR SOLUTIONS - BYRON B&RREL & DRUM SITE
UNISYS - METfCD 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

INF-8/1GW

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: _____ SAS No.: SD3NO.:

Matrix: (soil/water) WATER Lab Sanple ID: A7A30101

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: O3904.RR

Level: (low/msd) LOW Date Sairp/Recv: 09/12/2007 09/13/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/25/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 2.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CONCENTRATION UNITS:

CAS NO.	OCMPOUND	{ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	7.1	J
75-35-4	1,1-Dichloroethene	10	U
156-59-2	cis-l^-Dichloroethene	10 u M	u
75-09-2	Methylene chloride		
71-55-6	1,1,1-Trichloroethane	160	
79-01-6	Trichloroethene	10	U
108-88-3	Toluene	10	U
75-01-4	Vinyl chloride	10	U

(J-

11/27/2007

BOOR scmncNS
ECQR SOLUTIONS - BYROJ BARREL & IMJM SITE
UNISYS - MEIHCD 8260 - 8 CIMPOUNDS
ANALYSIS DATA SHEET

Client No.

EFF-47/GW

Lab Name: STL Buffalo Gantract:

Lab Code: RECNY Case No.: _____ SAS No.: SDGNb.:

Matrix: (soil/water) WATER Lab Sample ID: A7A30102

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 03905.RR

Level: (low/med) LOT Date Samp/Recv: 09/12/2007 09/13/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/25/2007

GC Column: 2B-624 ID: 0.25 (nm) Dilution Factor: 1.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____<uL)

CAS KD.	CXMPOUND	03SICENIRATICN UNITS: (ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

BOOR SOLUTIONS
ECDR SOLUTIONS - BYRCN BARRED & DRUM SITE
UNISYS - METER© 8260 - 8 COMPOUNDS
ANALYSIS DATA SHEET

Client No.

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Lab Name: STL Buffalo Contract:

Lab Code: RECOSAY CaseNb.:_____ SAS No.: SDGNo.:

Matrix: (soil/vater) WATER Lab Sample ID: A7A30103

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: O3906.RR

Level: (lcw/ned) *UM* Date Samp/Recv: 09/12/2007 09/13/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 09/25/2007

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: (uL) Soil Aliquot Volurre:_____(uL)

CCIONrRATICN UNITS:

GAS NO.	OCMPOUND	(ug/L or ug/Kg) UG/L	Q
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroetnene	5.0	U
156-59-2	cis-l,2-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
108-88-3	Toluene	5.0	U
75-01-4	Vinyl chloride	5.0	U

Environmental
Construction
Operations &
Remediation

ECOR Solutions, Inc.
!075 Andrew Drive, Suite 1
West Chester, PA 19380
Main (610)431-8731
Phone (610) 840-9200
Fax (610)431-2852

March 28, 2008

ECOR
Solutions, Inc.

Mr. George Jacob
Remedial Project Manager
Central New York Remediation Section
Emergency & Remedial Response Division
USEPA Region 2
290 Broadway Avenue, 20th Floor
New York, New York 10007-1866

Re: Fourth Quarter /Annual 2007Report
Byron Barrel & Drum Site - Byron, New York

Dear Mr. Jacob,

Enclosed is the report for remedial activities at the Byron Barrel & Drum Area 2 Site for the Fourth Quarter of 2007. This report is submitted on behalf of the Potentially Responsible Parties, who are jointly fulfilling the requirements of the Administrative Order. The report also summarizes the remedial activities for the calendar year of 2007.

If you have any questions regarding this report, or any other questions regarding activities at the Site, please contact me at (484) 887-7510, extension 207.

Sincerely,
ECOR Solutions, Inc.

Matthew Lapp
Project Engineer

cc: Mr. John Grathwol -NYSDEC
Mr. Chris Rockwell - Garlock Sealing Technologies
Mr. Terry Etter, P.E. - Unisys Corporation
Mr. R. William Stephens - Stephens & Stephens, LLP (General Railway Signal)
Keith Rapp - ECOR Solutions
Project File - ECOR Solutions

Final

BYRON BARREL & DRUM SITE

QUARTERLY/ANNUAL REPORT

FOURTH QUARTER 2007

Byron Barrel & Drum Site
Area 2
Byron, New York

March 28, 2008

Prepared for:

BYRON BARREL & DRUM PRP GROUP

Prepared by:

ECOR Solutions, Inc.
1075 Andrew Drive, Suite I
West Chester, PA 19380

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1.0 INTRODUCTION

This report of remedial activities at the Byron Barrel & Drum, Area 2 Site (Site) presents data obtained through the fourth quarter 2007. The purpose of this report is to summarize and document ongoing remedial and monitoring activities at the Site conducted during the fourth quarter of 2007, as well as, an annual summary for the calendar year 2007. The report also includes a preliminary evaluation of the In-Situ Remediation Technology (ISRT) bio-injection (Injection) performed in September 2007. The preliminary evaluation is based on the analytical results of samples collected in December 2007 in addition to routine quarterly samples. A brief description of the background of the Site is included, as well as, information regarding remedial activities and monitoring activities planned for the next quarter.

/./ SITE BACKGROUND

The Byron Barrel and Drum Area 2 Site is located at 6065 Transit Road, in Byron Township, Genesee County, NY. The Site is set back approximately 1,000 feet from the east side of Transit Road. In 1982, two drum disposal locations were discovered at the Site. New York State Department of Environmental Conservation's (NYSDEC) subsequent investigation led to the Site's inclusion on the Superfund National Priorities List (April 1984). A Site plan is provided as Figure 1.

A remedial investigation and feasibility study (RI/FS) was conducted, which identified three areas of concern at the Site. Based on the findings of the RI, it was concluded that further action in two of the areas, Area 1 and Area 3, was not warranted. However, the RI detected volatile organic compounds (VOCs); including trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) in groundwater samples collected from locations in Area 2.

The remedial activities discussed in this report include only activities for Area 2. The selected remedy for Area 2 was in-situ soil flushing and groundwater pumping, treatment, and discharge. The remedial action construction was performed during the summer of 2001. The implementation of the remedial design included excavation and characterization of potentially impacted soil, and installation of additional two groundwater pumping wells (PWs) to supplement the one previously installed (PW-1), a ground water treatment system, and an infiltration gallery.

1.2 CHRONOLOGY OF EVENTS

The chronology of events regarding the investigation and remediation of the Site are summarized below:

Event or Document	**Date**	**"Notes**
Record of Decision (ROD)	Sept. 29, 1989	EPA/ROD/R02-89-089
Consent Decree	January 5, 1995	89-CV-748A Unisys Corp. and Garlock, Inc., settling defendants
Draft Explanation of Significant Differences	February, 1999	
Pre-Remedial Design Investigation and Remedial Design Report	December, 1999	
100 Percent Remedial Design Submittal	December, 1999	
Remedial Action Work Plan	September, 2001	
Construction Health and Safety Plan	December, 2001	
Quality Assurance Project Plan	June, 2001	
RA Construction Mobilization	June 11, 2001	
RA Construction	June 11 -July 15,2001	
Initial UZ Soil Sampling Event	June 27,2001	
EPA RA Pre-Final Inspection	July 19,2001	
GWTS Performance Testing	July 29, 2001	
GWTS Startup Testing	August, 2001	Extended Startup & Testing
GWTS Continuous 0 & M	October 1,2001	Continuous Operation
EPA Interim Inspection	July 17,2002	
Second UZ Soil Sampling Event	August 14,2002	
RA Report	September, 2002	Final RA for Site Soils Interim RA for Site GW
EPA RA Approval	September, 2002	
Effluent Sampling reduced to Quarterly	September, 2002	
Discontinuation of SVOC Sampling	May 23, 2003	
EPA Site Inspection	May 2, 2007	5 year review
GWTS Shut down for In-situ Bioremediation	September 12,2007	
In-Situ Bioremediation Injection Event	September 18-20,2007	
Preliminary Injection monitoring samples collected in addition to groundwater VOC samples	December 19-21,2007	

2.0 CONSTRUCTION OF REMEDIAL DESIGN

Remediation system installation and activation was completed in July 2001. A Pre-Final inspection was performed on July 19,2001. A few action items were itemized during the Pre-Final inspection as summarized in the First Quarter 2002 Quarterly Report (ECOR, May 2001) and the Remedial Action Report (ECOR, September 2002). The action items were completed during late 2001 and early 2002. An Interim Inspection was completed by the Environmental Protection Agency (EPA) on July 17,2002. No major problems were discovered during the inspection.

The system operated intermittently until September 2001 due to initial system debugging during the start up phase. Since September 2001, the system has operated almost continuously. Use of the infiltration gallery was discontinued in August 2002 upon regulatory approval. During this reporting period (Fourth Quarter 2007), no significant activities occurred relative to the remedial design.

3.0 OPERATION OF GROUNDWATER TREATMENT SYSTEM

During routine operation, groundwater recovered from the three pumping wells (PW-1, PW-2, and PW-3) is treated through one bag filter and an air stripper prior to discharge. The bag filter removes suspended solids greater than 50 microns in diameter. The low-profile air stripper removes the VOCs from the groundwater. Following air stripping, the groundwater is discharged to surface water. Figure 1 illustrates the PW locations and the Groundwater Treatment System (GWTS). A Flow Diagram of the GWTS equipment and process piping is presented in Figure 2.

3.1 ROUTINE OPERATION AND MAINTENANCE

Scheduled Operation & Maintenance (O&M) activities include weekly Site visits by the local Chief Operator, Steve Rodland. The Chief Operator is the first responder to autodialer alarms from the Site. Weekly Site visits include performing an overall Site inspection, GWTP system inspection, including checking the bag filter for solids loading, gauging air flow through the stripper, and noting flow rates and totalized flow. Preventive maintenance items performed by the operator include monthly inspections of the air stripper blower, and air stripper trays are inspected for sediment and mineral deposits. The trays require cleaning on a quarterly basis as a preventative maintenance and system operation performance item.

3.2 SYSTEM OPERATIONS AND MONITORING HISTORY THROUGH FOURTH QUARTER 2007

A total of 20,572,110 gallons of groundwater and approximately 38.0 pounds of dissolved-phase VOCs have been recovered via the pumping well network since system activation. All of this groundwater was treated in the GWTS. Of that total, 19,748,110 gallons, or 96.0% of the total flow, was discharged to the surface water, into the drainage ditch that flows adjacent to the Site. The remaining 824,000 gallons, or 4.0 % of the total, was directed to the Infiltration Gallery. Soil flushing through the Infiltration Gallery ceased in August of 2002. In September of 2002, EPA concurred with the conclusion presented in the Final RA Report stating that Site soil has been effectively remediated. Therefore, there are no plans to re-initiate operation the Infiltration Gallery.

At the beginning of 2002, Treatment System Influent and Effluent were sampled and analyzed on a twice-monthly basis, as per the initial DEC discharge approval document. The Treatment System sampling schedule was reduced to quarterly during the third quarter 2002 following approval of the

NYSDEC. Effluent samples have been collected and analyzed during subsequent quarterly sampling events. The analytical results of the effluent have consistently met the DEC's Effluent Limitations, and have generally had non-detectable concentrations of VOCs. **Tables 1** and **2** summarize influent and effluent analytical data for the system since startup. **Figure 3** presents a graph of the influent VOC concentrations over time. Cumulative dissolved-phase mass recovered is depicted on Figure 4. This data indicates that the influent VOC concentration has reached asymptotic levels. Quarterly effluent compliance sampling events coincide with the quarterly groundwater monitoring events.

On May 2, 2007 a Site inspection was performed by the EPA's George Jacob as part of the project's Five Year Review. Also in attendance were Richard Krauser (EPA), John Grathwol (DEC), Chris Rockwell (PRP Group), Matt Lapp and Will Torres (ECOR). No issues were identified during the inspection.

3.3 OPERATIONAL PROBLEMS ENCOUNTERED

Due to a partial closing of the effluent discharge pipe caused from scale buildup pumping well PW-1 has routinely maintained a steady flowrate while PW-2 and PW-3 have typically have been turned off and cycled intermittently during operation. The system was operated in this manner from January through September 2007 with maintaining a final influent flowrate of 1.2 gpm. The system had an operational runtime of approximately 100%. While pumping flowrates and operational time have decreased, VOC concentrations continue to remain low, approaching asymptotic levels.

3.4 CURRENT SYSTEM STA TUS

The GWTS was temporarily shut down on September 12, 2007 to allow for the ISRT Injection to occur. The system will remain shut down awaiting the results and final evaluation of the Injection. A preliminary evaluation is presented in Section 4.4.

4.0 QUARTERLY SITE MONITORING EVENT

4.1 MONITORING WELL SAMPLING EVENT

The quarterly sampling event occurred on December 19 and 21, 2007 and was conducted in accordance with the agreed upon modifications to the QAPP (May 23,2003). Groundwater samples were collected from monitoring wells MW-1, MW-4, MW-10B, MW-21 and pumping wells PW-1 and PW-2 using EPA's low-flow sampling procedures, in accordance with the QAPP. PW-3 could not be sampled because there was no power to the pump. A summary of the field parameter measurements is presented in **Table 3.** A summary of Site groundwater elevations is provided in **Table 4.** A copy of field notes collected during the sampling event is included in **Appendix A.** The preserved groundwater samples were collected and analyzed by Test America, Inc, Buffalo, New York.

4.2 LABORATORY ANALYSIS/GROUNDWATER SAMPLING RESULTS

Recent and historical groundwater quality data for monitoring and pumping wells (2001 to present) for select compounds is summarized in **Table 5.** The sample specific analysis performed included VOC analysis in accordance with USEPA SW-846 Method 8260B. The groundwater samples (MW-1, MW-4, MW-10B and MW-21) were analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichIoroethene (1,1-DCE), methylene chloride (MeCl), toluene, 1,1,1-trichloroethane (TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichIorobenzene. The pumping well samples (PW-1 and PW-2) were analyzed for the following eight (8) compounds: 1,1 -DCA, 1,1 -DCE, MeCl, TCA, TCE, toluene, VC and cis-1,2-dichloroethene. A review of the previous data indicates that the primary compounds of concern detected at the Site are: TCA and degradation products 1,1-DCA and 1,1-DCE. The concentrations of these VOCs range from non-detect to 1,300 micrograms per liter (ug/L) (TCA at monitoring well MW-10B). Currently, only TCA is present above the applicable clean up standards at the Site.

The groundwater cleanup standards are summarized below:

Chemical	Groundwater Cleanup Level (ug/L)
1,1 -Dichloroethane	5
1,1 -Dichlloroethene	5
Toluene	5
Methylene chloride	5
1,1,1 -Trichloroethane	5
Trichloroethene	5
Vinyl Chloride	2

Groundwater quality data is depicted on Figure 5 with those constituents detected above the applicable clean-up standard are highlighted in yellow.

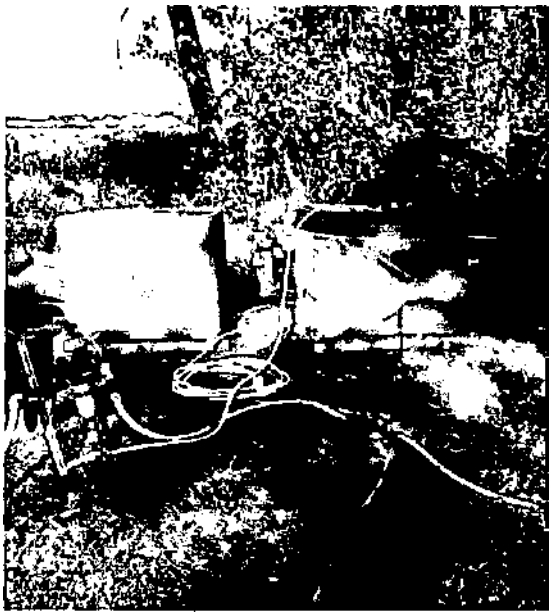
4.3 DATA VALIDATION

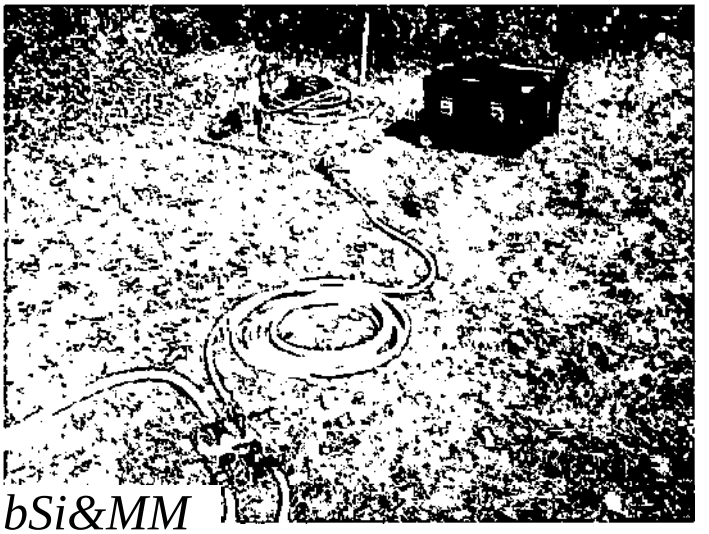
As per Section 4.0 of the QAPP, the data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the SAP, the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, September 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment. The Data Validation Report is included in **Appendix** B.

4.4 ISRT PRELIMINARY EVALUATION

ECOR submitted an in-situ bioremediation applicability study to the PRP group for review. The PRP Group requested an independent assessment of the data and recommendation prior to implementation. The independent assessment was completed during June 2006. The findings indicate that an in-situ remediation technology known as Enhanced Reductive Dechlorination (ERD), may be effective at carrying out final remediation at the Site. A work plan was prepared and approved by the EPA. The Injection was performed on September 18-20,2007, and consisted of metering the carbon amendment from totes and pails containing the Newman's Zone, mixed with potable water and injection down each

well as a dilute solution. The Newman's Zone amendment is a concentrated source of electron donors, with an electron equivalent dose for the lactate, soybean oil, and food grade additives over 175 electron equivalents per kilogram. The Material Safety Data Sheet (MSDS) for the Newman's Zone is provided in **Appendix F.**





bSi&MM

The sequence of injection is summarized below

Injection Well	Date	Emulsion + Water (gallons)	Average Injection Rate (SP^m)
MW-10B	18-Sep	340	
	19-Sep	1,614	
	Total	**1,954**	**2.8**
PW-2	18-Sep	237	
	19-Sep	1,230	
	20-Sep	836	
	Total	**2,303**	**1.9**
PW-1	19-Sep	565	
	20-Sep	1,260	
	Total	**1,825**	2.3

total emulsion + water (gallons) =6,082
total weight of emulsion (lbs) =5,349
total gals of emulsion =654

Several parameters are sampled as part of the program to monitor progress of the Injection, including Iron (Total and Dissolved), Manganese (Total and Dissolved), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Chloride, Nitrate-Nitrite, Sulfate and Sulfide, Total Kjeldahl Nitrogen, Total Organic Carbon (TOC), Total Phosphorous, and dissolved gasses Ethane, Ethene, Methane, and Carbon Dioxide. **Table** 3 provides a summary of the field parameters measured during the December 2007 Quarterly Sampling Event. Analytical data is presented in **Appendix** E.

The December 2007, sampling event was the initial post-injection sampling and is the beginning of the monitoring. For example TOC is monitored in the groundwater environment to determine if anaerobic metabolism of VOCs is possible through the addition of a hydrocarbon substrate. Oxidation Reduction Potential (ORP) is monitored to confirm the prevailing groundwater environment (aerobic and oxidizing vs. anaerobic and reducing). Alkalinity is analyzed as an indicator of the aquifers ability to buffer against variations in pH, and as an additional indicator of enhanced microbial activity. The pH is monitored to keep the groundwater in optimal range for reductive dechlorination as some bacterial populations are sensitive to low pH conditions (e.g., *Dehalococcoides).* The presence of reduced electron acceptors provides another measure of the primary microbial respiration processes controlling the groundwater environment. The presence and relative concentrations of VOC degradation end-products provides confirmation that the ERD process is being driven to completion. Dissolved gasses (methane\ethane\ethene) are monitored as they measure breakdown of the VOCs in a strongly reducing (methanogenic) environment, particularly around the injection wells. Chloride is monitored as a relative indicator that VOCs have been destroyed, leaving innocuous end-products. This performance monitoring is a critical portion of the in-situ ERD.

The December 2007, sampling event shows limited development of the ERD zone, however, this sampling event was conducted only 3-months after the initial injection, and several positive indicators are developing, including the distribution of TOC, and the change in some areas of the groundwater environment to anaerobic conditions. The TOC concentrations were plotted on **Figure 13,** which indicates good distribution of the Newman's Zone amendment from the upgradient injection well MW-10B downgradient past injection wells PW-1 and PW-2. The overlap of the groundwater impacted with VOCs above the NYSDEC Groundwater Criteria and the TOC is shown on **Figure 15.** One primary objective of the ERD program is to keep the TOC concentrations elevated in this area.

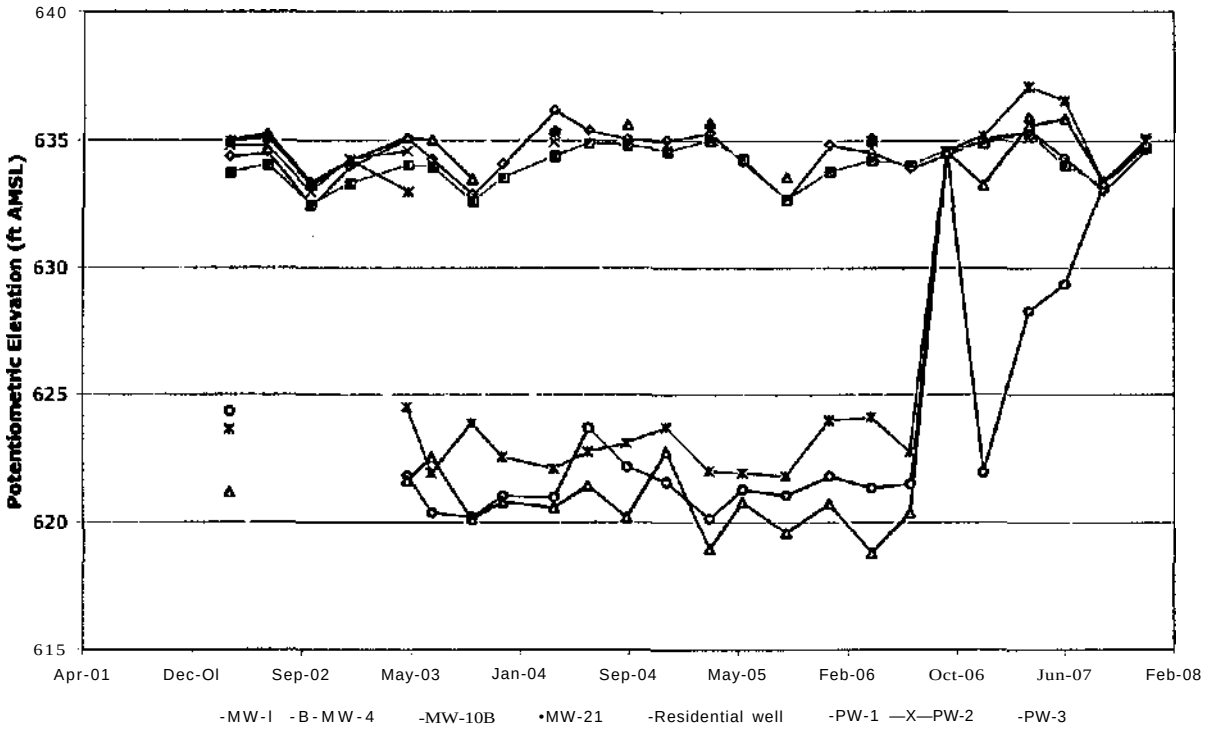
To date, the area near PW-1 began to shift toward strongly anaerobic conditions with the December 19, 2007, measurement of -258 mV ORP, accompanied by a reduction in dissolved oxygen (DO), as shown

on **Figure 14.** This shift is shown graphically on **Figure 16,** which depicts the DO and ORP change since the initial injection. In terms of dissolved gasses, ethane and ethene were detected at MW-lOB at a concentration of 5.3 and 8.7 mg/I, respectively, and methane was detected at MW-1 at a concentration of 37 mg/I **(Table 3).** Data generated previously from the BioTrap samplers confirmed that methanotrophs were detected at relatively high numbers (7×10^{46} and $1 \times 10^{+7}$ cells/bead). Methanotrophs are ubiquitous aerobic microorganisms that require methane as their sole source of carbon. The enzyme that initially oxidizes methane is also oxidized 1,1,1-TCA, 1,1-DCA, 1,1-DCE, TCE and other chlorinated VOCs. These microorganisms will degrade these compounds cometabolically under aerobic conditions in the presence of methane without the production of the lesser chlorinated daughter products (e.g. 1,1-DCA, chloroethane). These data indicate that methanotrophic degradation is still a major natural attenuation process at the Site. Further groundwater sampling will determine trends in these parameters, and suggest any modifications necessary to the ERD program. It is anticipated that with the addition of the hydrocarbon amendment the number and population of methanotrophs and solvent degraders will increase, further accelerating the rate of biodegradation, however, further biological sampling would be required to determine the rate and extent of indigenous biological populations.

5.0 *ANNUAL PROJECT SUMMARY Y*

Groundwater monitoring for potentiometric levels were collected concurrent with water quality samples on March 22, June 14, September 12, and December 19, 2007. In 2007 the groundwater levels in monitoring wells MW-1, MW-4, MW-10B, the Residential well, and MW-21 remained consistent with historical trends. With the restrictions in the GWTP effluent piping resulting in a reduction of flow to the treatment system and thus pumping at PW-1, PW-2, and PW-3, the potentiometric levels rebounded to pre-pumping levels, as shown on the chart below.

Well Hydrographs - Byron Barrel & Drum Site



Groundwater levels started rebounding in PW-2 and PW-3 in the fall-2006, and with progressively less groundwater extraction throughout 2007, water levels in all pumping wells returned to static, resulting in low hydraulic gradients by the end of 2007. Early in 2007 groundwater extraction occurred at PW-2, but on January 24, 2007, the pumping changed from PW-2 to PW-1, which was the primary groundwater extraction well for the rest of 2007. As the groundwater extraction volume progressively declined the water levels in PW-1 increased to essentially equivalent with the other extraction wells. As the chart above shows, the horizontally hydraulic gradient at the site is extremely low.

Groundwater flowpaths over the course of 2007 changed from previous years, as the result of the collapse of the cone-of-depression created by the past pumping of the extraction wells. **Figure** 5, Potentiometric Elevation Contour Map - March 22,2007, shows a familiar capture zone centered around PW-1, but narrower than past monitoring events as PW-2 and PW-3 were not pumping, and the cone-of-depression does not extend laterally east-west around each well. As the groundwater pumping diminished by June 2007, the cone-of-depression migrated further inward toward PW-1, and the horizontal hydraulic gradient flattened further, as shown of **Figure 6.** The system was shutdown on September 12,2007, in preparation for the Injection, and by the time water levels were measured on the same day, the cone-of-depression completely collapsed. Groundwater flow reverted to pre-pumping static conditions with flow from the south across the site and off-site to the north-northeast, as shown on **Figure 7.** For 2007, September 12, was the last day of groundwater extraction. By the fourth quarter groundwater sampling event conducted December 19, 2007, the groundwater flowpath continues to be generally northward across the Site with a very low hydraulic gradient (0.0008125 ft/ft), as depicted on **Figure 8.** A summary of 2007 potentiometric levels are provided below, as well as **Table 4.**

Summary Table of 2007 Potentiometric Levels

Date	MW-1	MW-4	MW-10B	MW-21	Residential	PW-1	PW-2	PW-3
3/22/07	635.44	635.32	636.00	635.14	635.69	628.32	637.15	635.66
6/14/07	634.33	634.06	nm	nm	nm	629.39	636.62	635.93
9/12/07	633.07	633.26	633.46	nm	nm	633.39	633.37	633.38
12/19/07	634.68	634.77	634.90	635.14	nm	634.87	635.03	nm

Elevations in ft AMSL

5.1 GROUNDWATER QUALITY SAMPLING

The 2007 groundwater sampling program was completed pursuant to the July 2002 QAPP. The first quarterly groundwater sampling event was conducted on March 22, 2007, and included wells MW-1, MW-4, MW-10B, MW-21, the Residential monitoring well, PW-1, PW-2, and PW-3. The second quarterly groundwater sampling event was conducted June 14,2007, and included wells MW-1, MW-4, PW-1, PW-2, and PW-3. The third quarterly groundwater sampling event was conducted September 12, 2007, and included wells MW-1, MW-4, MW-10B, PW-1, PW-2, and PW-3. The fourth quarterly groundwater sampling event was conducted December 19,2007, and included wells MW-1, MW-4, MW-10B, MW-21, PW-1, and PW-2.

Groundwater monitoring well samples were collected during each sampling event for VOC analysis in accordance with EPA SW-846 Method 8260B, specifically analyzed for the following twenty (20) project specific compounds: 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (c-DCE), methylene chloride (MEC), toluene, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), vinyl chloride (VC), benzene, total xylenes, chlorobenzene, 1,1,2-trichloroethane (1,1,2-TCA), 1,2-dichloroethane (1,2-DCA), tetrachloroethene, chloroform, bromodichloromethane, dibromochloromethane, 2-butanone, carbon tetrachloride, 1,2-dichlorobenzene and 1,4-dichlorobenzene. The pumping well samples (PW-1, PW-2, and PW-3) were analyzed for the following eight (8) compounds: 11DCA, 11DCE, MEC, 111TCA, TCE, toluene, VC and cDCE.

A review of the historic data indicates that the primary compounds of concern detected at the Site have been 1,1,1-TCA and degradation products 1,1-DCA and 1,1-DCE. In 2007 these compounds were detected, along with minor detections of c-DCE and TCE. The concentrations of these VOCs in 2007 range from non-detectto 1,300 micrograms per liter (ug/L) for 1,1,1-TCA at monitoring well MW-10B.

In the first quarter groundwater sampling event the primary VOCs detected were 1,1,1-TCA and 1,1-DCA. There were no VOCs detected at or above the laboratory method detection limit (MDL) at MW-21 and the Residential well. 1,1,1-TCA was detected at MW-1 with a concentration of 100 ug/1, at MW-4 with a concentration of 10 ug/1, MW-10B with a concentration of 6 ug/I, PW-1 with a concentration of 170 ug/1, PW-2 with a concentration of 90 ug/1, and at PW-3 with a concentration of 210 ug/1. 1,1-DCA was detected at MW-1 with a concentration of 2 J ug/I, at PW-1 with a concentration of 6 ug/1, at PW-2 with a concentration of 8 ug/1, and PW-3 with a concentration of 7 ug/1. **Figure 9** provides the Groundwater Quality Map for the sampling event conducted March 22, 2007. As noted on **Figure 9,** the

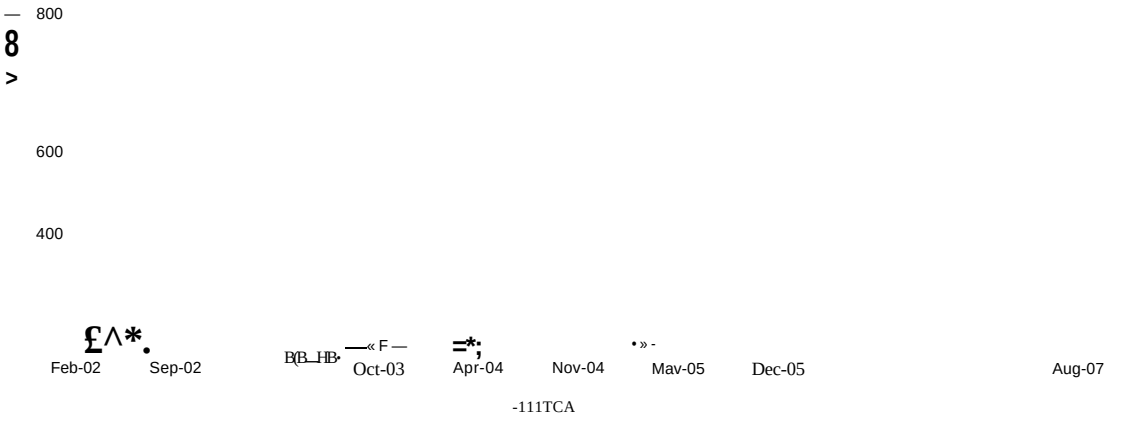
primary center of total VOCs is centered around the groundwater extraction wells (PW-1, PW-2, PW-3) and extending downgradient to MW-1.

The second quarter groundwater sampling event monitored five (5) wells, MW-1, MW-4, PW-1, PW-2, and PW-3. 1,1,1-TCA was detected at MW-1 with a concentration of 200 ug/1, at MW-4 with a concentration of 10 ug/1, at PW-1 with a concentration of 280 ug/1, at PW-2 with a concentration of 270 ug/1, and at PW-3 with a concentration of 260 ug/1. 1,1-DCA was detected at MW-1 with a concentration of 6 ug/1, at PW-1 with a concentration of 9 J ug/1, at PW-2 with a concentration of 8 J Ug/1, and at PW-3 with a concentration of 9 J ug/1. Estimated (J) values below the laboratory MDL of 5 Ug/1 were detected for 1,**1** -DCE at MW-1, PW-1, PW-2, and PW-3, and for TCE at MW-**1**, MW-4 and PW-1. **Figure 10** provides the Groundwater Quality Map for the sampling event conducted June 14, 2007.

The third quarter groundwater sampling event monitored six (6) wells, MW-1, MW-4, MW-10B, PW-1, PW-2, and PW-3. 1,1,1-TCA was detected at MW-1 with a concentration of 200 ug/1, at MW-4 with a concentration of 14 ug/1, at MW-10B with a concentration of 1 J ug/1, at PW-1 with a concentration of 130 ug/1, at PW-2 with a concentration of 140 ug/1, and at PW-3 with a concentration of 130 ug/1. 1,1-DCA was detected at MW-1 with a concentration of 7 J ug/1, at PW-1 with a concentration of 5 J jxg/1, at PW-2 with a concentration of 5 J ug/1, and at PW-3 with a concentration of 4 J ug/I. Estimated (J) values below the laboratory MDL of 5 ug/1 were detected for 1,1 -DCE at MW-1, PW-2, and PW-3, and for TCE at MW-4. **Figure 11** provides the Groundwater Quality Map for the sampling event conducted September 12, 2007.

The fourth quarter groundwater sampling event monitored six (6) wells, MW-1, MW-4, MW-10B, MW-21, PW-1, and PW-2. 1,1,1-TCA was detected at MW-1 with a concentration of 200 ug/1, at MW-4 with a concentration of 16 ug/1, and at MW-10B with a concentration of 1,300 ug/1. 1,1-DCA was detected at MW-1 with a concentration of 10 ug/1, and at MW-10B with a concentration of 64 J ug/1. Estimated (J) values below the laboratory MDL of 5 ug/I were detected for 1,1 -DCE at MW-1, and for TCE at MW-1 and MW-4. **Figure** 12 provides the Groundwater Quality Map for the sampling event conducted December 19,2007. The principle difference in the fourth quarter groundwater sampling event is the significant increase in VOCs, primarily 1,1,1-TCA at MW-10B, after the initial injection from the ERD program, as noted in the chart below.

Groundwater Monitoring Well MW-10B



Currently, 1,1-DCA and 1,1,1-TCA are present above the applicable clean up standards. In 2007, the 1,1,1-TCA groundwater standard of 5 ug/1 was exceeded at MW-1, MW-4, MW-10B, PW-1, PW-2 and PW-3. The 1,1-DCA groundwater standard of 5 u.g/1 was exceeded at MW-1, MW-10B, PW-1, PW-2, and PW-3. A summary of the historical water quality data is provided on Table 5.

5.2 TREND ANALYSIS OF GROUNDWATER CONCENTRATIONS

A trend analysis of groundwater concentrations presented as natural log [In] of the concentration over time reduces concentration variations and provides easier trend determination. It should be noted that the slope of a linear trend line was used to provide a uniform assessment of trends in total VOC concentrations. Visual inspection of these graphs reveals that, although the slope may indicate an increasing or decreasing trend, the actual fluctuation of analyte concentrations over time may show that an overall increasing or decreasing trend cannot be correctly applied to the VOC in question. The use of a linear trend line represents one of many approaches that can be used to determine trends in concentrations. To analyze the validity of the trend line, taking the fluctuations in data into account, the R^2 value was calculated for each linear model. R^2 is a unit less fraction between 0 and 1 that quantifies the accuracy of fit of the data set to the linear trend line. A high R^2 value (close to 1) indicates a more

accurate trend line, while a low value (close to zero) is a sign that the model may not be an accurate representation of the quarterly data. If influent groundwater concentrations continue to decrease over time, the trend analysis will indicate a higher level of reliability of the decreasing data (e.g. a R^2 value greater than 0.9).

Trend analyses for total VOC concentrations are presented in Figures 17 through 20 for select monitoring wells (MW-1 and MW-4) and pumping wells (PW-1 and PW-2). After initial total VOC concentration fluctuations, the total VOC levels at monitoring well MW-1 (a downgradient well) are stabilizing with a slight decreasing trend. A high R^2 value of 0.7069 indicates an accurate trend line. Concentrations of total VOCs at monitoring well MW-4 (also a downgradient well) are demonstrating an overall decreasing trend (2004-2006), but total VOC concentration variations are still observed. Prior to 2004, significant fluctuations in total VOC concentrations were observed. An R^2 value of 0.5572 indicates a fairly accurate trend line. Monitoring well MW-10B (an upgradient well) is sampled semi-annually, and a total VOC concentration trend is not apparent at this time but appears to be decreasing. MW-21 (an upgradient well) is only sampled once per year and concetrations of VOCs have consistently been non detect.

Pumping well PW-1 has a low calculated R^2 value (0.1946). Total VOC concentrations have fluctuated over time at pumping well PW-1, and a trend is not apparent from the data set. Pumping well PW-2 demonstrates a more predictable total VOC trend (calculated R^2 value of 0.3234). Total VOC concentrations at pumping well PW-2 show an overall decrease followed by a slight increase in 2007 most likely due to the inactivity of this pumping well.

5.3 STATISTICAL EVALUATION OF GROUNDWATER TRENDS

The VOC concentration trends over time for the last 10 sampling events were evaluated using the Mann-Kendall statistical test **(Appendix** C). The Mann-Kendall test is a non-parametric test that can be used to assess concentrations exhibiting either increasing or decreasing trends over time to a specified level of confidence. Unlike the R^2 value in linear regression analysis, this test evaluates "trend" only, not linearity, and is independent of the order-of-magnitude changes in concentration.

The Mann-Kendall test was performed using a modified spreadsheet developed by the State of Wisconsin. The test requires a minimum of four (4) and a maximum often (10) sampling events. This analysis used the data for the most recent 10 sampling events. Values below the detection limits are entered as the detection limit; however, in order to prevent "trending of detection limits", all detection limits for a given trend series are entered as a single value. This test was not performed for wells or compounds for which the majority of results were reported below the detection limit. The results are provided as "Increasing", "Decreasing", or "No Trend" at an 80% confidence level. The results of this analysis are provided in **Appendix** C, and summarized below.

The groundwater monitoring wells were analyzed for the commonly detected compounds 1,1-DCA, 1,1-DCE, MEC, 1,1,1-TCA, TCE, and TVOCs. The pumping wells were analyzed for 1,1-DCA, 1,1-DCE, cDCE, 1,1,1-TCA, TCE, and TVOCs, and due to high MDLs the December 2007, sampling event is not included in this analysis.

- MW-1 depicts a stable or decreasing trend at 80% confidence level for 1,1-DCA, 1,1-DCE, MEC, 1,1,1-TCA, TCE, and TVOCs (all compounds).

- MW-4 depicts a stable or decreasing trend at 80% confidence level for all compounds.

- MW-10B depicts a stable or decreasing trend at 80% confidence level for 1,1-DCE, MEC, 1,1,1-TCA, TCE and TVOCs, and an undetermined non-stable trend (coefficient of variation >1) for 1,1-DCA.

- PW-1 depicts a stable or decreasing trend at 80% confidence level for 1,1-DCA, 1,1-DCE, and c-DCE, and an increasing trend at 80% confidence level for 1,1,1-TCA, TCE and TVOCs.

- PW-2 depicts a stable or decreasing trend at 80% confidence level for 1,1-DCE, c-DCE, and TCE, and an increasing trend at 80% confidence level for 1,1 -DCA, 1,1,1 -TCA and TVOCs.

- PW-3 depicts a stable or decreasing trend at 80% confidence level for 1,1-DCE, c-DCE, and TCE, and an increasing trend at 80% confidence level for 1,1 -DCA, 1,1,1 -TCA and TVOCs.

A summary of the statistical analysis shows generally increasing trends for 1,1,1 -TCA and 1,1 -DCA in the recovery wells, and stable or decreasing trends for the other compounds in the monitoring wells, as summarized in the table below.

	Decreasing Trend (80% CI), all compounds	Stable or Decreasing Trend (80% CI)	Undetermined non-stable trend	Increasing Trend (80% CI)
MW-1	**X**	—	~	—
MW-4	**X**	—	_.	—
MW-10B		1,1-DCE,MEC, **1,1,1**-TCA, TCE	11 DCA	
PW-1	~	1,1-DCA, 11 DCE, c-DCE	—	1,1,1-TCA, TCE
PW-2	—	1,1-DCE, c-DCE, TCE	—	1,1-DC A, 1,1,1-TCA
PW-3	-	1,1-DCE, c-DCE, TCE	--	1,1-DC A, 1,1,1-TCA

The increase in 1,1,1-TCA corresponds to the decrease in pumping rate of each well. This is primarily caused by the collapse of the cone-of-depression and re-saturation in the soils and area surrounding the wells, coupled with a re-equilibrating of the groundwater flowfields upgradient and within the former capture zone. **Appendix** C contains the spreadsheets for each well.

6.0 PLANS FOR NEXT QUARTER

It is recommended the GWTP remain shut-down until after a second round of post-injection sampling is conducted and evaluated. This means the GWTP will not be operational for the 1st Quarter 2008. However, quarterly groundwater sampling will continue to be collected in accordance with the QAPP and described in **Table** 6. The first quarter 2008 sampling is scheduled for March 26, 2008. At this time the additional post-injection samples will also be collected. The first quarter report should provide additional analysis regarding the progress of the ERD and whether it will be necessary to resume GWTP operation.

Based on the results of the groundwater monitoring program, it is recommended that second round of BioTrap samplers could be installed in MW-1 and MW-10B in early-2008 to further demonstrate the progress of ERD through establishing the population of methanotrophs and genetic analysis of chlorinated solvent degraders, and shifts in the indigenous bacteria as the result of the hydrocarbon injection.

TABLES

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Influent pH, std pH units			7.87	7.57	7.55	7.5
Total Suspended Solids, mg/L	6.5	4.0 U	4.0 U	4.0 U	4.0 U	4
1,1-Dichloroethane, ug/L	23	47	60	19J	58 D	43 J
1,1-Dichloroethene, ug/L	5.1	12	16	12 J	16 DJ	50 U
Cis -1,2 - Dichloroethene, pg/L	1.0J	1.4J	1.0 J	50 U	50 U	50 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
1,1,1 - Trichloroethane, pg/L	460 E	840 E	1200 E	1100	1100 D	780
Trichloroethene, pg/L	1.9J	3.0 J	4.7 J	50 U	50 U	50 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	50 U	50 U	50 U
Total Confident VOCs, pg/L	499	899	1276	1124	1174	823

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Influent pH, std pH units	7.39	7.57	7.42	7.43	7.54	7.64
Total Suspended Solids, mg/L	4.0 U	7	15	4.0 U		4.0 U
1,1-Dichloroethane, pg/L	46 J	32 J	20 J	13	9.3	11
1,1-Dichloroethene, pg/L	13J	13 J	9.4 J	4.2 J	4.6 J	4.3 J
Cis-1,2- Dichloroethene, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	50 U	50 U	25 U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	1200	580	530	260	220 E	250 E
Trichloroethene, pg/L	50 U	50 U	25 U	3.3 J	4.2 J	4.9 J
Toluene, pg/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Vinyl Chloride, pg/L	50 U	50 U	25 U	10U	5.0 U	5.0 U
Total Confident VOCs, pg/L	1259	635	559	277	237	270

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Influent pH, std pH units	7.71	7.84	7.48	7.79	7.72	7.09
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	16	10	11	11	10
1,1-Dichloroethene, pg/L	4.0 J	5.2 J	3.5 J	3.7 J	4.1 J	2.5 J
Cis -1,2 - Dichloroethene, pg/L	10 U	10U	5.0 U	5.0 U	5.0 U	10 U
Methylene Chloride, pg/L	10U	10U	5.0 U	5.0 U	1.8 BJ	10U
1,1,1 -Trichloroethane, pg/L	220	320	240 E	320 E	330 E	240
Trichloroethene, pg/L	4.3 J	3.2 J	3.3 J	3.4 J	3.4 J	3.3 J
Toluene, pg/L	10U	10U	3.3 J	5.0 U	5.0 U	10U
Vinyl Chloride, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	10 U
Total Confident VOCs, pg/L	238	339	256	337	348	253

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Influent pH, std pH units	6.99	7.07	7.41	7.11	7.34	7.19
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, pg/L	10	12	20	19J	18D.J	20
1,1-Dichloroethene, pg/L	2.5 J	2.4 J	3.5 J	25 U	20 U	3.4 J
Cis -1,2 - Dichloroethene, ug/L	10U	10 U	10U	25 U	20 U	10 U
Methylene Chloride, ug/L	15B	10 U	3.1 BJ	16 J	12 B,D,J	8.5 B,J
1,1,1 - Trichloroethane, ug/L	230	260	350	390	360 D	380
Trichloroethene, ug/L	2.8 J	2.7 J	3.3 J	25 U	20 U	3.7 J
Toluene, pg/L	2.6 J	10U	10 U	25 U	20 U	10 U
Vinyl Chloride, pg/L	10 U	10 U	10U	25 U	20 U	10U
Total Confident VOCs, pg/L	246	276	376	425	390	407

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/2002	8/29/2002	9/18/2002	10/29/2002	11/25/2002	12/18/2002
Field Influent pH, std pH units	6.45	6.97	7.74	7.91	6.8	7.25
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	4.0 U
1,1-Dichloroethane, pg/L	9.0 J	8.8	7.7	8.6	9.1 DJ	6.6
1,1-Dichloroethene, pg/L	2.6 J	1.3 J	1.8J	3.0 J	2.4 DJ	2.8 J
Cis-1,2- Dichloroethene, pg/L	10U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
1,1,1 -Trichloroethane, pg/L	210	150	190	170	160 D	150
Trichloroethene, pg/L	10 U	1.9 J	1.9J	2.5 J	10 U	1.9J
Toluene, pg/L	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl Chloride, pg/L	10 U	5.0 U	5.0 U	5.0 U	10U	5.0 U
Total Confident VOCs, pg/L	222	162	202	184	172	161

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	1/17/2003	2/19/2003	4/30/2003	6/23/2003	7/30/2003	8/27/2003
Field Influent pH, std pH units	7.6	6.93	7.06	7.03	7.12	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	8.4	6.2	8.4 DJ	6.6 DJ	7.6	2.4 J
1,1-Dichloroethene, pg/L	5.0 U	2.4 J	10 U	10 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, pg/L	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	10U	10 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	160	140	190 D	140 D	150	66
Trichloroethene, pg/L	2.4 J	1.6 J	10 U	10U	1.2 J	5.0 U
Toluene, pg/L	5.0 U	5.0 U	10 U	10U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	10 U	10U	5.0 U	5.0 U
Total Confident VOCs, pg/L	171	150	198	147	159	68

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event Date	37/GW 9/24/2003	38/GW 10/23/2003	39/GW 11/20/2003	40/GW 12/3/2003	41/GW 1/29/2004	42/GW 3/30/2004
Field Influent pH, std pH units	NA	NA	NA	7.18	NA	6.84
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	8.8 DJ	7.4 DJ	4.7 J	6.1	5.0 U	6.7
1,1-Dichloroethene, pg/L	10U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	10U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	10U	10U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	180 D	170 D	92	110	1.9 J	96
Trichloroethene, pg/L	2.0 DJ	10U	1.1 J	1.6J	5.0 U	1.0J
Toluene, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, pg/L	191	174	98	118	2	104

Sampling Event Date	43/GW 5/20/2004	44/GW 6/16/2004	45/GW 7/15/2004	46/GW 8/26/2004	47/GW 9/14/2004	48/GW 10/28/2004
Field Influent pH, std pH units	NA	7.32	NA	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.5	10 D	7.5	3.3 J	9.1 DJ	4.1 J
1,1-Dichloroethene, pg/L	5.0 U	10 U	2.3 J	5.0 U	10 U	2.3 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
Methylene Chloride, pg/L	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U
1,1,1 -Trichloroethane, pg/L	150	180 D	190	74	170 D	90
Trichloroethene, pg/L	5.0 U	10 U	1.6 J	5.0 U	10 U	1.1 J
Toluene, pg/L	5.0 U	10U	5.0 U	5.0 U	10U	5.0 U
Vinyl Chloride, pg/L	5.0 U	10U	5.0 U	5.0 U	10 U	5.0 U
Total Confident VOCs, pg/L	156	190	201	77	179	97

Sampling Event Date	49/GW 12/14/2004	50/GW 1/27/2005	51 /GW 3/22/2005	52/GW 4/26/2005	53/GW 5/30/2005	54/GW 6/7/2005
Field Influent pH, std pH units	6.23	NA	7.04	NA	NA	7.50
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	7.4	9.8	2.9 J	2.5 J	6.3	2.5
1,1-Dichloroethene, pg/L	2.5 J	3.0 J	5.0 U	5.0 U	1.9	0.84 J
Cis -1,2 - Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
1,1,1 -Trichloroethane, pg/L	130	180	65	67	230	65
Trichloroethene, pg/L	1.6J	2,2 J	5.0 U	5.0 U	1.2 J	0.68 J
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 **u**	1.0U
Total Confident VOCs, pg/L	141.5	195	67.9	69.5	239.4	69.0

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	55/GW	56/GW	57/GW	58/GW	59/GW	60/GW
Date	7/28/2005	8/29/2005	9/13/2005	10/18/2005	11/22/2005	12/19/2005
Field Influent pH, std pH units	NA	NA	7.25	NA	NA	6.85
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	10	9.5 J	2.3 J	7.1J	5.2 J	2.7 J
1,1-Dichloroethene, ug/L	4.8	3.1J	0.64 J	1.5J	2.7 J	0.84 J
Cis -1,2 - Dichloroethene, ug/L	1.0 U	25 U	5.0 U	10 U	20 U	5.0 U
Methylene Chloride, ug/L	1.0 U	2.4 J	5.0 U	10 U	2.0 J	5.0 U
1,1,1 - Trichloroethane, ug/L	260	220	53	180	130	61
Trichloroethene, ug/L	1.7	25 U	0.49 J	2.9 BJ	20 U	0.64 J
Toluene, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	25 U	5.0 U	10U	20 U	5.0 U
Total Confident VOCs, ug/L	276.5	235.0	56.4	191.5	139.9	65.2

Sampling Event	61/GW	62/GW	63/GW	64/GW	65/GW	66/GW
Date	1/19/2006	2/24/2006	3/27/2006	4/20/2006	5/25/2006	6/20/2006
Field Influent pH, std pH units	NA	NA	6.99	NA	NA	NA
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6	4.7 J	4.5 J	5.5 J	6.2 J	3.6 J
1,1-Dichloroethene, ug/L	1.7 J	1.3 J	1.1 J	1.3 J	1.5 J	0.94 J
Cis-1,2- Dichloroethene, ug/L	5.0 U	10 U	5.0 U	10U	10U	5.0 U
Methylene Chloride, ug/L	5.0 U	2.1 BJ	5.0 U	10 U	1.3J	5.0 U
1,1,1 -Trichloroethane, ug/L	170	100	110	140	160	80
Trichloroethene, ug/L	1.3J	0.87 J	0.95 J	1.0J	1.2 J	0.72 J
Toluene, ug/L	5.0 U	10 U	5.0 U	10U	10 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	10 U	5.0 U	10U	10 U	5.0 U
Total Confident VOCs, ug/L	179.0	109.0	116.6	147.8	170.2	85.3

Sampling Event	67	68	69	70	71	72
Date	7/18/2006	8/7/2006	9/14/2006	10/12/2006	11/22/2006	12/14/2006
Field Influent pH, std pH units	NA	7.46	7.5	7.7	7.38	7.56
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	6.3	5.7 J	4.0 J	5.5	9.5 J	2.8 J
1,1-Dichloroethene, pg/L	1.6 J	1.2 J	4.7 J	1.4 J	2.3 J	1.3J
Cis -1,2- Dichloroethene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	2.8 BJ	5.0 U	5.0 U	10.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	155 E	140	94	82 D	140 D	56
Trichloroethene, pg/L	1.1 J	2.2 J	0.83 J	1.0J	1.8J	0.64 J
Toluene, pg/L	5.0 U	10 U	5.0 U	5.0 U	10.0 U	5.0 U
Vinyl Chloride, pq/L	5.0 U	10U	5.0 U	5.0 U	10.0 U	5.0 U
Total Confident VOCs, pg/L	162.4	151.9	103.53	89.9	153.6	60.74

Table 1
Influent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	73	74	75	76	77	78
Date	1/18/2007	2/28/2007	3/21/2007	4/30/2007	5/23/2007	6/27/2007
Field Influent pH, std pH units	7.64	7.62	7.53	7.61	7.52	7.69
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.8J	5.6 DJ	6.2 J	8.2	8.7	5.0
1,1-Dichloroethene, ug/L	0.64 J	2.7 DJ	1.5J	2.8 J	2.0 J	0.88 J
Cis -1,2 - Dichloroethene, ug/L	5.0 U	10U	10 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	1.0 DJ	10 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	62	170 D	230	210 D	200 D	180 D
Trichloroethene, ug/L	0.78 J	1.3 DJ	10 U	1.1 J	1.2 J	0.67J
Toluene, ug/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, uq/L	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Total Confident VOCs, ug/L	65.22	180.6	245.5	222.1	211.9	186.55

Sampling Event	79	80	81	82
Date	7/24/2007	8/22/2007	9/12/2007	12/07
Field Influent pH, std pH units	7.57	7.85	7.65	NS
Total Suspended Solids, mg/L	NA	NA	NA	NS
1,1-Dichloroethane, ug/L	6.6	5.9	7.1	NS
1,1-Dichloroethene, ug/L	5.2	1.0 J	10 U	NS
Cis -1,2 - Dichloroethene, ug/L	5.0 U	5.0 U	10 U	NS
Methylene Chloride, ug/L	5.0 U	5.0 U	10 U	NS
1,1,1- Trichloroethane, ug/L	230 D	140 D	160	NS
Trichloroethene, pg/L	0.82 J	0.81 J	10 U	NS
Toluene, ug/L	5.0 U	5.0 U	10 U	NS
Vinyl Chloride, ug/L	5.0 U	5.0 U	10 U	NS
Total Confident VOCs, ug/L	242.62	147.71	167.1	NS

NA= Not Applicable
NS = Not Sampled
Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.
E - CC excedes calibration range. D - Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	01/GW	02/GW	03/GW	04/GW	05/GW	06/GW
Date	7/28/2001	8/8/2001	8/18/2001	9/18/2001	9/27/2001	10/5/2001
Field Effluent pH, std pH units	8.44	8.44	8.5	8.38	8.38	8.32
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.5 J	5,0 U	1.5J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	07/GW	08/GW	09/GW	10/GW	11/GW	12/GW
Date	10/17/2001	11/8/2001	11/28/2001	12/13/2001	12/27/2001	1/18/2002
Field Effluent pH, std pH units	8.35	8.35	8.29	8.43	8.30	8.38
Total Suspended Solids, mg/L	4.0 U	4.0 U	8.0	4.0 U	4.0 U	4.0U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Cis-1.2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
1.1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Toluene, ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U
Vinyl Chloride. ug/L	5.0 U	5.0 U	5.0U	5.0 U	5.0 U	5.0U

Sampling Event	13/GW	14/GW	15/GW	16/GW	17/GW	18/GW
Date	1/30/2002	2/13/2002	2/23/2002	3/8/2002	3/20/2002	4/8/2002
Field Effluent pH, std pH units	8.39	8.31	8.22	8.39	8.47	8.05
Total Suspended Solids, mg/L	4.0U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane. ug/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	1.3J	2.8 B,J
1,1,1 -Trichloroethane, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0U	5.0 U	2.5J	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	19/GW	20/GW	21/GW	22/GW	23/GW	24/GW
Date	4/24/2002	5/8/2002	5/21/2002	6/4/2002	6/13/2002	7/11/2002
Field Effluent pH, std pH units	8.0	8.08	8.23	8.23	8.16	8.06
Total Suspended Solids, mg/L	4.0 U	4.0	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichioroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	7.6 B	5.0 U	1.2 BJ	1.1 J	1.7 B,J	2.6 B,J
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.2 J	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	25/GW	26/GW	27/GW	28/GW	29/GW	30/GW
Date	7/23/02	9/18/02	12/18/02	4/30/03	6/23/03	9/24/03
Field Effluent pH, std pH units	6.66	7.11	7.22	7.72	7.68	7.81
Total Suspended Solids, mg/L	4.0 U	4.0 U	4.0 U	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichioroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	31/GW	32/GW	33/GW	34/GW	35/GW	36/GW
Date	12/2/03	3/30/04	6/16/04	9/14/04	12/14/04	3/22/05
Field Effluent pH, std pH units	7.63	7.47	7.86	7.61	6.93	6.97
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis-1,2- Dichioroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 -Trichloroethane, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, pg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table 2
Effluent Analytical Results
Groundwater Treatment System
Byron Barrel and Drum Site
Byron, NY

Sampling Event	37/GW	38/GW	39/GW	40/GW	41/GW	42/GW
Date	6/7/2005	9/13/2005	12/19/2005	3/27/2006	6/20/2006	9/14/2006
Field Effluent pH, std pH units	8.01	7.95	7.64	7.74	7.71	8.4
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cis -1,2 - Dichloroethene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1 - Trichloroethane, ug/L	1.0 U	5.0 U	0.58 J	5.0 U	5.0 U	5.0 U
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride, ug/L	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Sampling Event	43/GW	44/GW	45/GW	47/GW	48/GW
Date	12/14/2006	3/21/2007	6/27/2007	9/12/2007	12/07
Field Effluent pH, std pH units	8.36	8.44	8.39	8.63	NS
Total Suspended Solids, mg/L	NA	NA	NA	NA	NA
1,1-Dichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,1-Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
Cis-1,2- Dichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
Methylene Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,1,1 -Trichloroethane, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
Trichloroethene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
Toluene, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS
Vinyl Chloride, ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NS

NA= Not Applicable

NS = Not Sampled

Data Qualifiers: U - Undetectable at listed detection limit. J - Estimated value, less than the detection limit.

E - CC excedes calibration range. D • Identified in the secondary dilution factor. B - Analyte found in blank as well as sample.

Table 3
Field Parameters
Quarterly Sampling Event
December 19-21, 2007
Byron Barrel and Drum Site
Byron, NY

Parameter / Units	Time	Temp. ℃	ORP mV	pH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-1-9/GW24	1015	9.5	31	7.32	0.6	3.01	848
	1020	9.3	30	7.30	0.6	2.98	839
	1025	9.1	31	7.28	0.6	2.94	821
	1030	9.0	32	7.28	0.6	2.90	811
	1035	9.0	32	7.27	0.6	2.87	800
	1040	8.8	32	7.26	0.6	2.84	797
	1045	8.7	32	7.24	0.6	2.82	795
MW-4-9/GW24	1050	7.6	139	7.40	0.5	2.74	715
	1055	7.9	142	7.42	0.5	2.70	710
	1100	7.8	145	7.42	0.5	2.67	705
	1105	8.2	147	7.42	0.5	2.60	698
	1110	8.3	149	7.44	0.5	2.55	694
	1115	8.7	150	7.43	0.5	2.50	690
	1120	8.5	150	7.43	0.5	2.48	690
MW-10B-9/GW24	1250	8.0	13	7.10	0.5	3.16	1100
	1255	8.3	12	7.13	0.5	3.11	1098
	1300	8.1	10	7.15	0.5	3.07	1090
	1305	8.0	10	7.17	0.5	3.04	1089
	1310	8.0	8	7.20	0.5	3.00	1087
	1315	8.3	7	7.22	0.5	2.97	1084
	1320	8.1	7	7.24	0.5	2.95	1080

Table 3
Field Parameters
Quarterly Sampling Event
December 19-21, 2007
Byron Barrel and Drum Site
Byron, NY

Parameter Units	Time	Temp. °C	ORP mV	PH Std. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
MW-21-9/GW24	1340	8.9	10	7.36	1.1	3.39	1578
	1345	8.4	13	7.27	1.1	3.33	1567
	1350	9.6	14	7.22	1.1	3.30	1560
	1355	8.7	16	7.15	1.1	3.27	1557
	1400	8.7	17	7.18	1.1	3.24	1550
	1405	8.6	20	7.09	1.1	3.20	1547
PW-1/GW24	1150	8.7	-249	7.20	1.3	1.77	205
	1155	8.7	-250	7.23	1.3	1.70	205
	1200	8.7	-251	7.25	1.3	1.67	205
	1205	8.8	-255	7.30	1.3	1.60	205
	1210	8.8	-257	7.33	1.3	1.56	205
	1215	8.8	-258	7.35	1.3	1.53	205
	1220	8.7	-258	7.37	1.3	1.50	205
PW-2/GW24	1100	6.5	72	7.19	1.4	4.71	222
	1105	6.5	69	7.11	1.4	4.00	22
	1110	6.5	67	7.07	1.4	3.62	225
	1115	5.9	65	7.00	1.4	3.00	226
	1120	6.0	60	7.00	1.4	2.78	226
	1125	6.4	58	7.00	1.4	2.75	227
	1130	6.4	57	7.01	1.4	2.70	226
	1135	6.5	56	7.00	1.4	2.68	228
PW-3/GW24	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: Flow through cell was calibrated for all chemistry parameters prior to gauging.

N/A = Not Available

Table 4
Groundwater Elevations
December 2007 Sampling Event
Byron Barrel and Drum Site
Byron, NY

Operator: **P. Little**

Date: **12/19/2007**

Pumping Wells	DTW	Elevation	Elevation	TD	WC.ft.
PW-1	**7.95**	**642.82**	**634.87**	—	*m*
PW-2	**6.31**	**641.34**	**635.03**	—	*m*
PW-3	**6.23**	**641.11**	**634.88**	*	m
Monitoring Wells					
MW-1	**4.95**	**639.63**	**634.68**	**11.60**	**6.65**
MW-2	**11.42**	**646.36**	**634.94**	**15.06**	**3.64**
MW-4	**3.79**	**638.56**	**634.77**	**11.50**	**7.71**
MW-10B	**9.54**	**644.44**	**634.90**	**20.32**	**10.78**
MW-21	**7.81**	**642.52**	**634.71**	**27.86**	**20.05**
Residential	**15.94**	**650.78**	**634.84**	**35.17**	**19.23**
Piezometers					
PZ-1	**7.72**	**643.11**	**635.39**	**27.02**	**19.30**
PZ-2	**7.56**	**642.39**	**634.83**	**27.25**	**19.69**

Table 5
Historic Groundwater Quality - Select Analytes
Byron Barrel and Drum Site
Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	**5**	**5**	**5**	5	**2**
MW-1	3/20/2002	639.63	5.24	634.39	**86**	**49**	**NA**	**5 U**	**1700**	**2 J**	5 U	**2 J**
	6/12/2002	639.63	5.07	634.56	**81**	**38**	**NA**	**5 U**	**1600**	**3 J**	5 U	**5 U**
	9/18/2002	639.63	7.15	632.48	**13**	13 **J**	**NA**	**5 UJ**	**350**	**5 U**	5 U	**5 U**
	12/18/2002	639.63	5.62	634.01	**42**	37 **J**	**NA**	25 **U**	**1200**	**5 J**	25 U	25 **U**
	4/29/2003	639.63	4.53	635.10	**57**	**34**	**NA**	25 **U**	**1300 J**	25 **U**	25 U	25 **U**
	6/24/2003	639.63	5.36	634.27	**32**	**24**	**NA**	**5 U**	**720**	**4 J**	5 U	**5 U**
	9/24/2003	639.63	6.72	632.91	24 **J**	17 **J**	**NA**	25 **U**	**580**	25 **U**	25 U	25 **U**
	12/3/2003	639.63	5.53	634.10	33 **J**	28 **J**	**NA**	40 **U**	**860 J**	40 **U**	40 U	40 **U**
	3/30/2004	639.63	3.40	636.23	30 **J**	**31**	**NA**	25 **U**	**830 J**	25 **UJ**	25 U	25 **U**
	6/16/2004	639.63	4.20	635.43	**26**	22 **J**	**NA**	25 **UJ**	**870**	25 **U**	25 U	25 **U**
	9/14/2004	639.63	4.56	635.07	**28**	**26**	**NA**	25 **U**	**730**	25 **U**	25 U	25 **U**
	12/14/2004	639.63	4.61	635.02	**31**	**26**	**NA**	25 **U**	**760**	25 **UJ**	25 U	25 **U**
	3/22/2005	639.63	4.32	635.31	**41**	**110**	**NA**	**5 U**	**830**	**5**	5 U	**5 U**
	6/7/2005	639.63	5.45	634.18	10 **J**	14 **J**	**NA**	13 **J**	**340**	50 **U**	50 UJ	50 **U**
	9/13/2005	639.63	6.89	632.74	**14**	**16**	**NA**	**5 U**	**410**	**2 J**	5 UJ	**5 U**
	12/20/2005	639.63	4.78	634.85	24 **J**	24 **J**	**NA**	40 **U**	**580**	40 **U**	40 U	40 **U**
	3/26/2006	639.63	5.07	634.56	**29**	**24**	**NA**	**5 U**	**540**	**4 J**	5 U	**5 U**
	6/22/2006	639.63	5.68	633.95	**7**	**9**	**NA**	**5 U**	**220**	**2 J**	5 U	**5 U**
	9/14/2006	639.63	5.15	634.48	**5 J**	**6 J**	**NA**	10 **U**	**190**	**2 J**	10 U	10 **U**
	12/7/2006	639.63	4.54	635.09	**6 J**	**9 J**	**NA**	10 **U**	**170**	**2 J**	10 U	10 **U**
	3/22/2007	639.63	4.19	635.44	**2 J**	**4 J**	**NA**	10 **U**	**100**	**2 J**	10 U	10 **U**
	6/14/2007	639.63	5.30	634.33	**6**	**3 J**	**NA**	**5 U**	**200**	**2 J**	5 U	**5 U**
	9/12/2007	639.63	6.56	633.07	**7 J**	**3 J**	**NA**	20 **U**	**200**	20 **U**	20 U	20 **U**
	12/19/2007	639.63	4.95	634.68	**10**	**2 J**	**NA**	10 **U**	**200**	**2 J**	10 U	10 **U**

Table 5
Historic Groundwater Quality - Select Analytes
Byron Barrel and Drum Site
Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	NA	**5**	**5**	5	5	**2**
MW-4	3/20/2002	638.56	**4.79**	633.77	**17 J**	14 **J**	NA	25 **U**	**450**	10 J	25 U	25 **U**
	6/12/2002	638.56	4.48	634.08	**3 J**	**2 J**	NA	**5 U**	**83**	8	5 U	**5 U**
	9/18/2002	638.56	6.04	632.52	**5 U**	**5 UJ**	NA	**5 UJ**	**27**	5	5 U	**5 U**
	12/18/2002	638.56	5.22	633.34	**40**	**24**	NA	**5 U**	**200**	8	5 U	**5 U**
	4/29/2003	638.56	4.50	634.06	**31**	13 **J**	NA	25 **U**	**530**	25 U	25 U	25 **U**
	6/24/2003	638.56	4.58	633.98	**5 UJ**	**5 UJ**	NA	**5 U**	**17 J**	4 J	5 U	**5 UJ**
	9/24/2003	638.56	5.91	632.65	**35**	**9 J**	NA	10 **U**	**240**	8 J	10 U	10 **U**
	12/3/2003	638.56	4.98	633.58	**65**	17 **J**	NA	20 **U**	**550**	11 J	20 U	20 **U**
	3/30/2004	638.56	4.15	634.41	**12**	**5**	NA	**5 U**	**130**	3 J	5 U	**5 U**
	6/16/2004	638.56	3.64	634.92	15 **J**	25 **UJ**	NA	25 **UJ**	**150**	25 U	25 U	25 **U**
	9/14/2004	638.56	3.71	634.85	11 **J**	25 **U**	NA	25 **U**	**87**	25 U	25 U	25 **U**
	12/14/2004	638.56	3.97	634.59	11 **J**	25 **U**	NA	25 **U**	**67**	25 U	25 U	25 **U**
	3/22/2005	638.56	3.55	635.01	50 **U**	50 **U**	NA	50 **UJ**	**87**	50 U	50 U	50 **U**
	6/7/2005	638.56	4.25	634.31	**5 U**	**5 U**	NA	**5 U**	**8**	1 J	5 U	**5 U**
	9/13/2005	638.56	5.84	632.72	**5 U**	**5 U**	NA	**5 U**	**11**	2 J	5 U	**5 U**
	12/20/2005	638.56	4.75	633.81	**4 J**	25 **U**	NA	25 **U**	**48**	25 U	25 U	25 **U**
	3/25/2006	638.56	4.32	634.24	**5 U**	**5 U**	NA	**5 U**	**8**	1 J	5 U	**5 U**
	6/22/2006	638.56	4.50	634.06	**5 U**	**5 U**	NA	**5 U**	**9**	1 J	5 U	**5 U**
	9/14/2006	638.56	3.92	634.64	**5 U**	**5 U**	NA	**5 U**	**13**	2 J	5 U	**5 U**
	12/7/2006	638.56	3.64	634.92	25 **U**	25 **U**	NA	25 **U**	**6 J**	25 U	25 U	25 **U**
	3/22/2007	638.56	3.24	635.32	**5 U**	**5 U**	NA	**5 U**	**10**	1 J	5 U	**5 U**
	6/14/2007	638.56	4.50	634.06	**5 U**	**5 U**	NA	**5 U**	**10**	1 J	5 U	**5 U**
	9/12/2007	638.56	5.30	633.26	**5 U**	**5 U**	NA	**5 U**	**14**	2 J	5 U	**5 U**
	12/19/2007	638.56	3.79	634.77	**5 U**	**5 U**	NA	**5 U**	**16**	1 J	5 U	**5 U**

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Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			**5**	**5**	**NA**	5	**5**	5	**S**	2
MW-10B	3/21/2002	644.44	9.43	635.01	**5 U**	**5 U**	**NA**	5 U	**42**	5 U	5 U	5 U
	6/12/2002	644.44	9.12	635.32	**5 U**	**5 U**	**NA**	5 U	**11**	5 U	5 U	5 U
	9/18/2002	644.44	11.05	633.39	**5 U**	**5 UJ**	**NA**	5 UJ	**7**	5 U	5 U	5 U
	12/18/2002	644.44	10.20	634.24	**5 U**	**5 U**	**NA**	5 U	**52**	5 U	5 U	5 U
	4/30/2003	644.44	9.28	635.16	**5 U**	**5 U**	**NA**	5 U	**8**	5 U	5 U	5 U
	6/23/2003	644.44	9.39	635.05	**5 U**	**5 U**	**NA**	5 U	**3 J**	5 U	5 U	5 U
	9/24/2003	644.44	10.93	633.51	**5 U**	**5 U**	**NA**	5 U	**7**	5 U	5 U	5 U
	3/30/2004	644.44	8.99	635.45	**5 U**	**5 U**	**NA**	5 U	**17**	5 U	5 U	5 U
	9/14/2004	644.44	8.76	635.68	**5 U**	**5 U**	**NA**	5 U	**14**	5 U	5 U	5 U
	3/22/2005	644.44	8.69	635.75	**5 U**	**5 U**	**NA**	5 U	**11**	5 U	5 U	5 U
	9/13/2005	644.44	10.84	633.60	**5 U**	**5 U**	**NA**	5 U	**5**	5 U	5 U	5 U
	3/25/2006	644.44	9.28	635.16	**5 U**	**5 U**	**NA**	5 U	**6**	5 U	5 U	5 U
	9/14/2006	644.44	9.82	634.62	**5 U**	**5 U**	**NA**	5 U	**6**	5 U	5 U	5 U
	3/22/2007	644.44	8.44	636.00	**5 U**	**5 U**	**NA**	5 U	**6**	5 U	5 U	5 U
	9/12/2007	644.44	10.98	633.46	**5 U**	**5 U**	**NA**	5 U	**1 J**	5 U	5 U	5 U
	12719/2007	644.44	9.54	634.90	64 **J**	120 **U**	**NA**	31 J	**1300**	120 U	120 U	120 U

Table 5
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Byron Barrel and Drum Site
Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	**5**	**NA**	**5**	5	5	5	**2**
MW-21	3/26/1999	NA	NA	NA	1 U	**1 U**	**1 U**	**2 U**	1 U	1 U	1 U	**1 U**
	3/21/2002	642.52	7.70	634.82	25 U	25 **U**	**NA**	25 **U**	25 U	25 U	25 U	**25 U**
	6/12/2002	642.52	7.69	634.83	25 U	25 **U**	**NA**	25 **U**	25 U	25 U	5 BJ	**25 U**
	9/17/2002	642.52	9.50	633.02	5 U	**5 UJ**	**NA**	**5 UJ**	5 U	5 U	5 U	**5 U**
	12/17/2002	642.52	8.23	634.29	5 U	**5 UJ**	**NA**	**5 U**	5 UJ	5 U	5 U	**5 U**
	4/30/2003	642.52	7.91	634.61	25 U	25 **U**	**NA**	25 **U**	25 U	25 U	25 U	**25 U**
	3/30/2004	642.52	7.56	634.96	5 UJ	**5 UJ**	**NA**	**5 UJ**	5 UJ	5 UJ	5 UJ	**5 UJ**
	3/22/2005	642.52	7.42	635.10	25 U	25 **U**	25 **U**	25 **U**	25 U	25 U	25 U	25 **U**
	3/25/2006	642.52	7.78	634.74	25 U	25 **U**	25 **U**	25 **U**	25 U	25 U	25 U	25 **U**
	3/22/2007	642.52	7.38	635.14	20 U	20 **U**	20 **U**	20 **U**	20 U	20 U	20 U	20 **U**
	12/19/2007	642.52	7.81	635.14	50 U	50 **U**	50 **U**	50 **U**	50 U	50 U	50 U	50 **U**
MW-Residential	3/21/2002	650.78	15.79	634.99	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	6/12/2002	650.78	15.62	635.16	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	9/17/2002	650.78	17.50	633.28	5 U	**5 UJ**	**NA**	**5 UJ**	5 U	5 U	5 U	**5 U**
	12/17/2002	650.78	16.52	634.26	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	4/30/2003	650.78	17.74	633.04	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	3/30/2004	650.78	15.47	635.31	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	3/22/2005	650.78	15.24	635.54	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	3/25/2006	650.78	15.75	635.03	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**
	3/22/2007	650.78	15.09	635.69	5 U	**5 U**	**NA**	**5 U**	5 U	5 U	5 U	**5 U**

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Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	5	5	
PW-1	12/21/1998	**NA**	**NA**	NA	20 U	5 J	20 U	9 BJ	**270**	**11** J	20 U	20 U
	12/27/2001	NA	NA	NA	**15**	**6.2**	5 U	5 U	**280**	**5.2**	5 U	5 U
	3/20/2002	642.82	**NM**	**NM**	**11**	5	5 U	5 U	**320**	3 J	5 U	5 U
	6/12/2002	642.82	NM	**NM**	**18**	3 J	5 U	5 U	**380**	2 J	5 U	5 U
	9/18/2002	642.82	**NM**	**NM**	12	2 J	5 U	5 UJ	**270**	2 J	5 U	5 U
	12/18/2002	642.82	18.43	624.39	8	5	5 U	5 U	**160**	2 J	5 U	5 U
	4/30/2003	642.82	20.96	621.86	**11**	2 J	5 U	5 U	**180**	2 J	5 U	5 U
	6/23/2003	642.82	22.41	620.41	**12**	2 J	5 U	5 U	**190**	2 J	5 U	5 U
	9/24/2003	642.82	22.59	620.23	8	5 U	5 U	5 U	**120**	5 U	5 U	5 U
	12/3/2003	642.82	21.74	621.08	8	2 J	5 U	5 U	**150**	2 J	5 U	5 U
	3/30/2004	642.82	21.80	621.02	6	2 J	5 U	5 U	**150**	5 U	5 U	5 U
	6/16/2004	642.82	19.08	623.74	13	3 J	5 U	5 UJ	**380**	2 J	5 U	5 U
	9/14/2004	642.82	20.62	622.20	**10**	2 J	5 U	5 U	**210**	5 U	5 U	5 U
	12/14/2004	642.82	21.23	621.59	6	2 J	5 U	5 U	**140**	5 U	5 U	5 U
	3/22/2005	642.82	22.65	620.17	15	**23**	5 U	5 U	**200** J	2 J	5 U	. 5 U
	6/7/2005	642.82	21.50	621.32	**10**	2 J	10 U	2 U	**59**	1 J	10 U	10 U
	9/13/2005	642.82	21.73	621.09	3 J	0.9 J	5 U	5 U	**73**	0.5 J	5 U	5 U
	12/19/2005	642.82	20.98	621.84	9	2 J	5 U	5 U	**140**	2 J	5 U	5 U
	3/26/2006	642.82	21.44	621.38	4 J	0.9 J	5 U	5 U	**76**	0.6 J	5 U	5 U
	6/22/2006	642.82	21.28	621.54	4 J	1 J	5 U	5 U	**77**	0.8 J	5 U	5 U
	9/14/2006	642.82	8.23	634.59	9 DJ	25 U	25 U	25 U	**230**	25 U	25 U	25 U
	12/7/2006	642.82	20.82	622.00	6 J	2 J	10 U	10 U	**160**	1 J	10 U	10 U
	3/22/2007	642.82	14.50	628.32	6 J	2 J	10 U	10 U	**170**	1 J	10 U	10 U
	6/14/2007	642.82	13.43	629.39	9 J	2 J	10 U	10 U	**280**	2 J	10 U	10 U
	9/12/2007	642.82	9.43	633.39	5 J	10 U	10 U	10 U	**130**	10 U	10 U	10 U
	12/21/2007	642.82	7.95	634.87	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U

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Byron Barrel and Drum Site
Byron, NY

Sample Location ID	Date	Top of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Groundwater Cleanup Levels (ug/L):			5	5	NA	5	5	[illegible]	5	2
PW-2	12/27/2001	NA	**NA**	NA	**68**	**23**	1.4 J	5 U	**960**	4 J	5 U	1.1 J
	3/20/2002	641.34	**NM**	NM	**24**	**13**	5 U	5 U	**720**	2 J	5 U	5 U
	6/12/2002	641.34	**NM**	**NM**	**18**	**10**	5 U	5 U	**370**	2 J	5 U	5 U
	9/18/2002	641.34	NM	**NM**	5	4 J	5 U	5 UJ	**160**	5 **u**	5 U	5 U
	12/18/2002	641.34	17.68	623.66	**12**	**14**	10 U	10 U	**280**	10 **u**	10 U	10 U
	4/30/2003	641.34	16.82	624.52	**11**	6	5 U	5 U	**200**	2 J	5 U	5 U
	6/23/2003	641.34	19.41	621.93	8	5	5 U	5 U	**180**	5 U	5 U	5 U
	9/24/2003	641.34	17.45	623.89	6	2 J	5 U	5 U	**120**	5 U	5 U	5 U
	12/3/2003	641.34	18.78	622.56	6	3 J	5 U	5 U	**160**	5 U	5 U	5 U
	3/30/2004	641.34	19.24	622.10	4 J	3 J	5 U	5 U	**140**	5 U	5 U	5 U
	6/16/2004	641.34	18.58	622.76	5	5 U	5 U	5 UJ	**120**	5 U	5 U	5 U
	9/14/2004	641.34	18.25	623.09	S	4 J	5 U	5 U	**160**	5 U	5 U	5 U
	12/14/2004	641.34	17.63	623.71	8	5	5 U	5 U	**160**	2 J	5 U	5 U
	3/22/2005	641.34	19.33	622.01	S	**11**	5 U	5 U	**140**	5 U	5 U	5 U
	6/7/2005	641.34	19.40	621.94	3 J	2 J	5 U	5 U	**70**	1 J	5 U	5 U
	9/13/2005	641.34	19.52	621.82	3 J	3 J	5 U	5 U	**94** J	2 J	5 U	5 U
	12/19/2005	641.34	17.35	623.99	1 J	5 U	5 U	5 U	**30**	0.5 J	5 U	5 U
	3/26/2006	641.34	17.22	624.12	5	1 J	5 U	5 U	54	0.8 J	5 U	5 U
	6/22/2006	641.34	18.59	622.75	4 J	2 J	10 U	10 BL	**170**	1 J	10 U	10 U
	9/14/2006	641.34	6.75	634.59	3 DJ	1 DJ	10 U	10 U	**92**	1 DJ	10 U	10 U
	12/7/2006	641.34	6.11	635.23	9 DJ	3 DJ	10 U	10 U	**230**	2 J	10 U	10 U
	3/22/2007	641.34	4.19	637.15	8 J	4 J	10 U	10 U	**90**	1 J	10 U	10 U
	6/14/2007	641.34	4.72	636.62	8 J	2 J	20 U	20 U	**270**	20 U	20 U	20 U
	9/12/2007	641.34	7.97	633.37	5 J	1 J	10 U	10 U	**140**	10 U	10 U	10 U
	12/21/2007	641.34	6.31	635.03	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U

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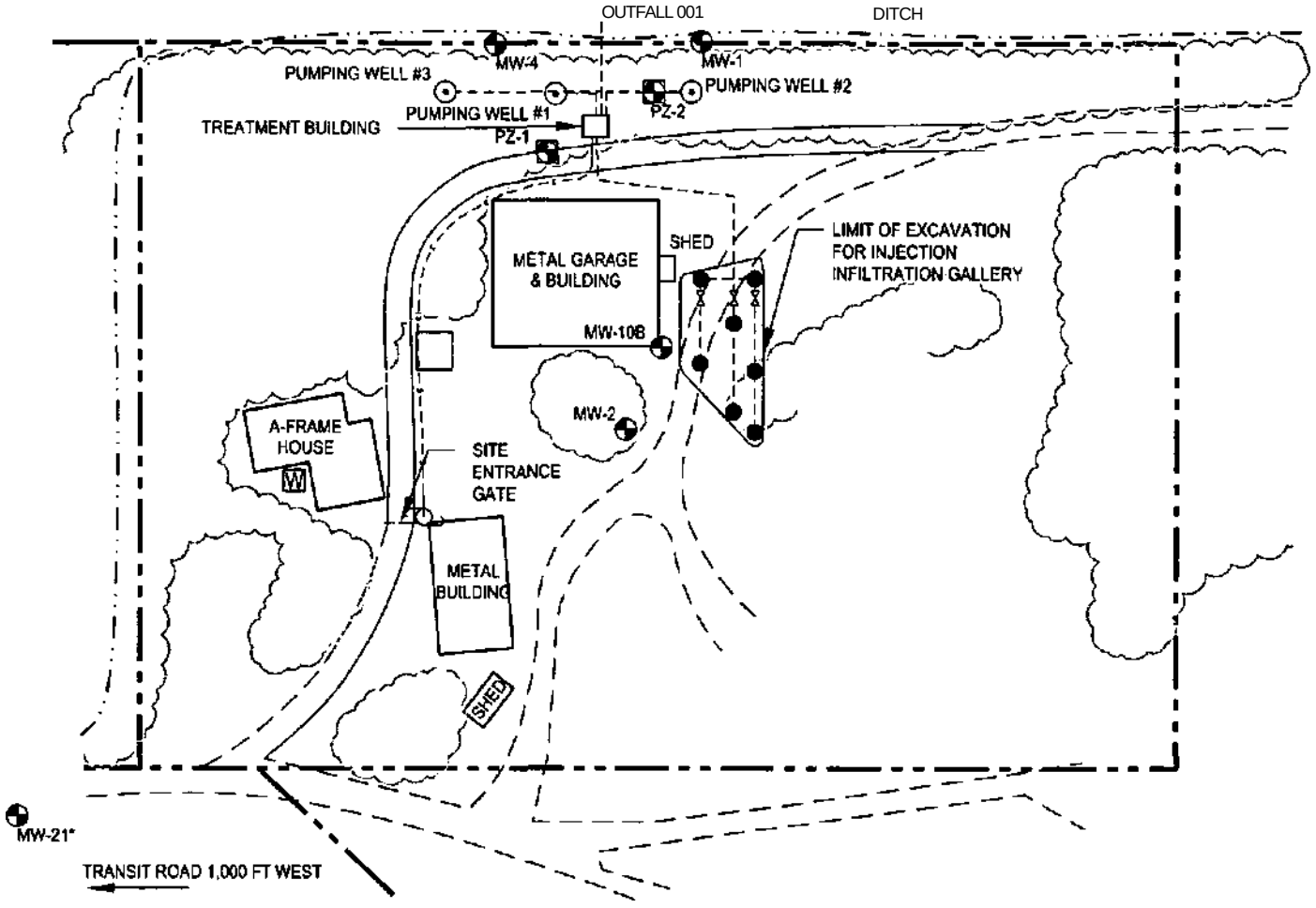
Sample Location ID	Date	Top Of Casing (ft)	Depth to Water (ft)	Groundwater Elevation (ft)								
		Groundwater Cleanup Levels (ug/L):			5	**5**	**NA**	**5**	5	5	**5**	***2***
PW-3	12/27/2001	NA	NA	**NA**	5 U	**5 U**	**5 U**	**5 U**	**16**	1.7 J	**5 U**	5 U
	3/20/2002	641.11	**NM**	**NM**	5 U	**5 U**	**5 U**	**5 U**	8	1 J	**5 U**	5 U
	6/12/2002	641.11	**NM**	**NM**	5 U	**5 U**	**5 U**	**5 U**	6	5 U	**5 U**	5 U
	9/18/2002	641.11	NM	**NM**	5 U	**5 UJ**	**5 U**	**5 UJ**	4 J	5 U	**5 U**	5 U
	12/18/2002	641.11	19.90	621.21	5 U	**5 U**	**5 U**	**5 U**	4 J	5 U	**5 U**	5 U
	4/30/2003	641.11	19.46	621.65	5 U	**5 U**	**5 U**	**5 U**	3 J	5 U	**5 U**	5 U
	6/23/2003	641.11	18.55	622.56	5 U	**5 U**	**5 U**	**5 U**	3 J	5 U	**5 U**	5 U
	9/24/2003	641.11	20.97	620.14	5 U	**5 U**	**5 U**	**5 U**	2 J	5 U	**5 U**	5 U
	12/3/2003	641.11	20.28	620.83	5 U	**5 U**	**5 U**	**5 U**	3 J	5 U	**5 U**	5 U
	3/30/2004	641.11	20.52	620.59	5 U	**5 U**	**5 U**	**5 U**	2 J	5 U	**5 U**	5 U
	6/16/2004	641.11	19.65	621.46	5 U	**5 U**	**5 U**	**5 UJ**	2 J	5 U	**5 U**	5 U
	9/14/2004	641.11	20.91	620.20	5 U	**5 U**	**5 U**	**5 U**	2 J	5 U	**5 U**	5 U
	12/14/2004	641.11	18.33	622.78	5 U	**5 U**	**5 U**	**5 U**	2 J	5 U	**5 U**	5 U
	3/22/2005	641.11	22.17	618.94	5 U	**5 U**	**5 U**	**5 U**	2 J	5 U	**5 U**	5 U
	6/7/2005	641.11	20.30	620.81	5 U	**5 U**	**5 U**	**5 U**	5 U	5 U	**5 U**	5 U
	9/13/2005	641.11	21.52	619.59	5 U	**5 U**	**5 U**	**5 U**	1 J	5 U	**5 U**	5 U
	12/19/2005	641.11	20.36	620.75	5 U	**5 U**	**5 U**	**5 U**	1 J	5 U	**5 U**	5 U
	3/26/2006	641.11	22.31	618.80	5 U	**5 U**	**5 U**	**5 U**	1 J	5 U	**5 U**	5 U
	6/22/2006	641.11	20.72	620.39	5 U	**5 U**	**5 U**	**5 U**	1 J	5 U	**5 U**	5 U
	9/14/2006	641.11	6.53	634.58	5 U	**5 U**	**5 U**	**5 U**	2 J	5 U	**5 U**	5 U
	12/7/2006	641.11	7.81	633.30	6 DJ	**2 DJ**	**5 U**	**5 U**	**170**	1 J	**5 U**	5 U
	3/22/2007	641.11	5.45	635.66	7	**4 J**	**5 U**	**5 U**	**210**	1 J	**5 U**	5 U
	6/14/2007	641.11	5.18	635.93	9 J	**3 J**	20 **U**	20 **U**	**260**	20 U	20 **U**	20 U
	9/12/2007	641.11	7.73	633.38	4 J	**1 J**	10	10	**130**	10 U	10 **U**	10 U
	12/21/2007	641.11	6.23	634.88	NA	**NA**	**NA**	**NA**	NA	NA	**NA**	NA

Notes:
All concentrations in micrograms per liter (pg/L)
Exceedences of the groundwater cleanup standard are indicated in bold.
NM = Not Measured
NA = Not Available

Table 6
Schedule of Sampling and Analysis for 2008
Bryon Barrel and Drum Site
Byron, NY

Month	**Event**	**Monitoring Well to be Sampled**	**Constituents to be Analyzed**
March 2008	First Quarter 2008 Monitoring Event	MW-1 MW-4 MW-10B MW-21 MW-Residential	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride
June 2008	Second Quarter 2008 Monitoring Event	MW-1 and MW-4	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride
September 2008	Third Quarter 2008 Monitoring Event	MW-1 and MW-4 MW-10B	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride
December 2008	Fourth Quarter 2008 Monitoring Event	MW-1 and MW-4	Five VOCs: 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1,1-Trichloroethane, Tnchloroethene, Vinyl Chloride

FIGURES



LEGEND

«	MONITORING WELL		PROPERTY LINE
	FORMER RESIDENTIAL WELL		FENCE
	PIEZOMETER WELL		TREELINE
	INJECTION GALLERY PIE20METER WELL		NEW GRAVEL ROAD
	INJECTION GALLERY VALVE		PRE-EXISTING GRAVEL ROAD
©	PUMPING WELL		DITCH
	UTILITY POLE		ELECTRIC & PHONE LINE
			REINJECTION PIPIING

•NOTE: UW-!1 IS 200 FEET WEST OF PROPERTY LINE

SOURCE. ERM CSO SERVICES

SITE PLAN

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

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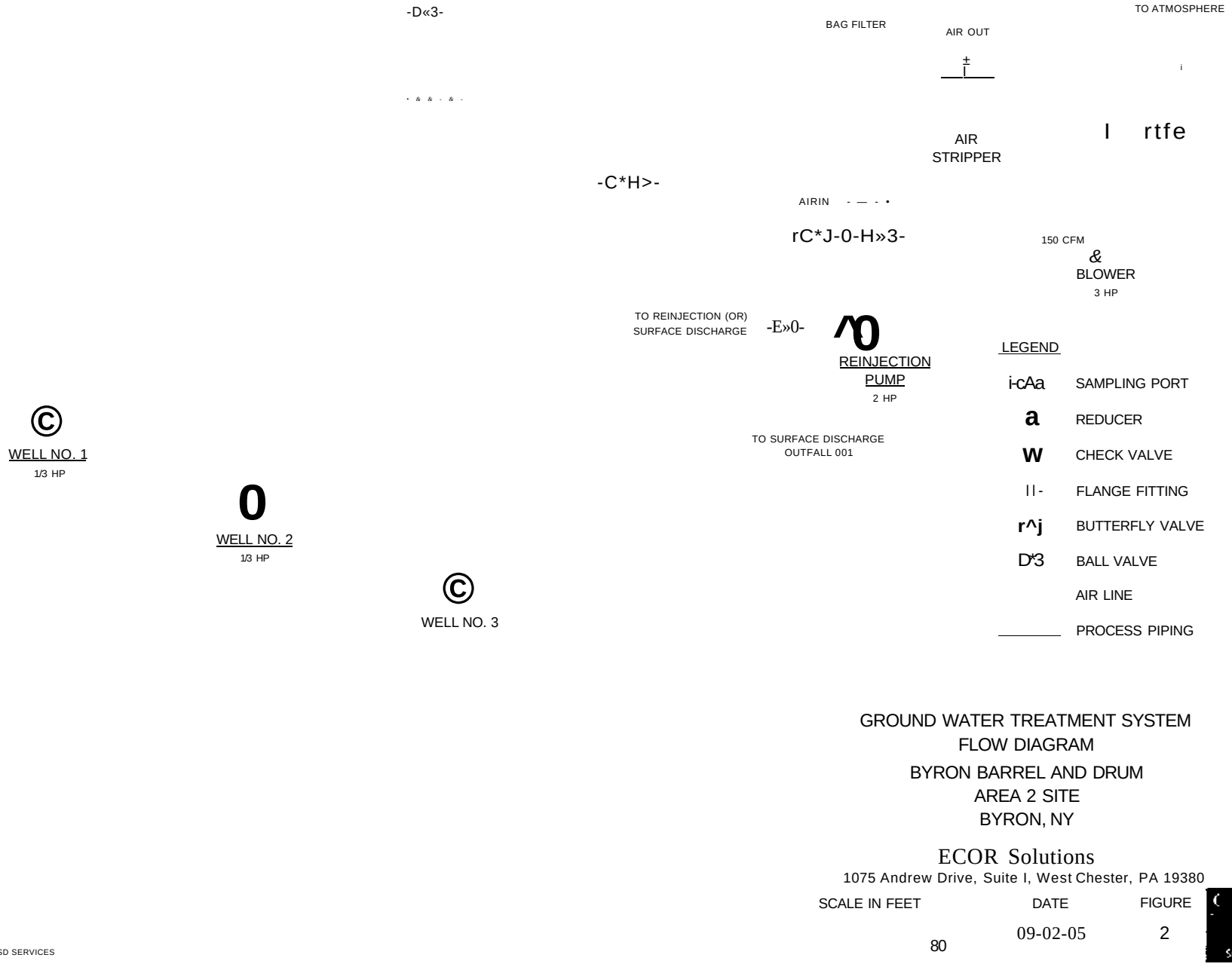
SCALE IN FEET	DATE	FIGURE
	07-25-06	1



GROUND WATER TREATMENT SYSTEM
FLOW DIAGRAM

BYRON BARREL AND DRUM
AREA 2 SITE
BYRON, NY

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SCALE IN FEET	DATE	FIGURE
	09-02-05	2

SOURCE: ERM CSD SERVICES

Figure 3
Influent VOC Concentration vs. Time
July 2001 to Present
Byron Barrel and Drum Site
Byron, **NY**

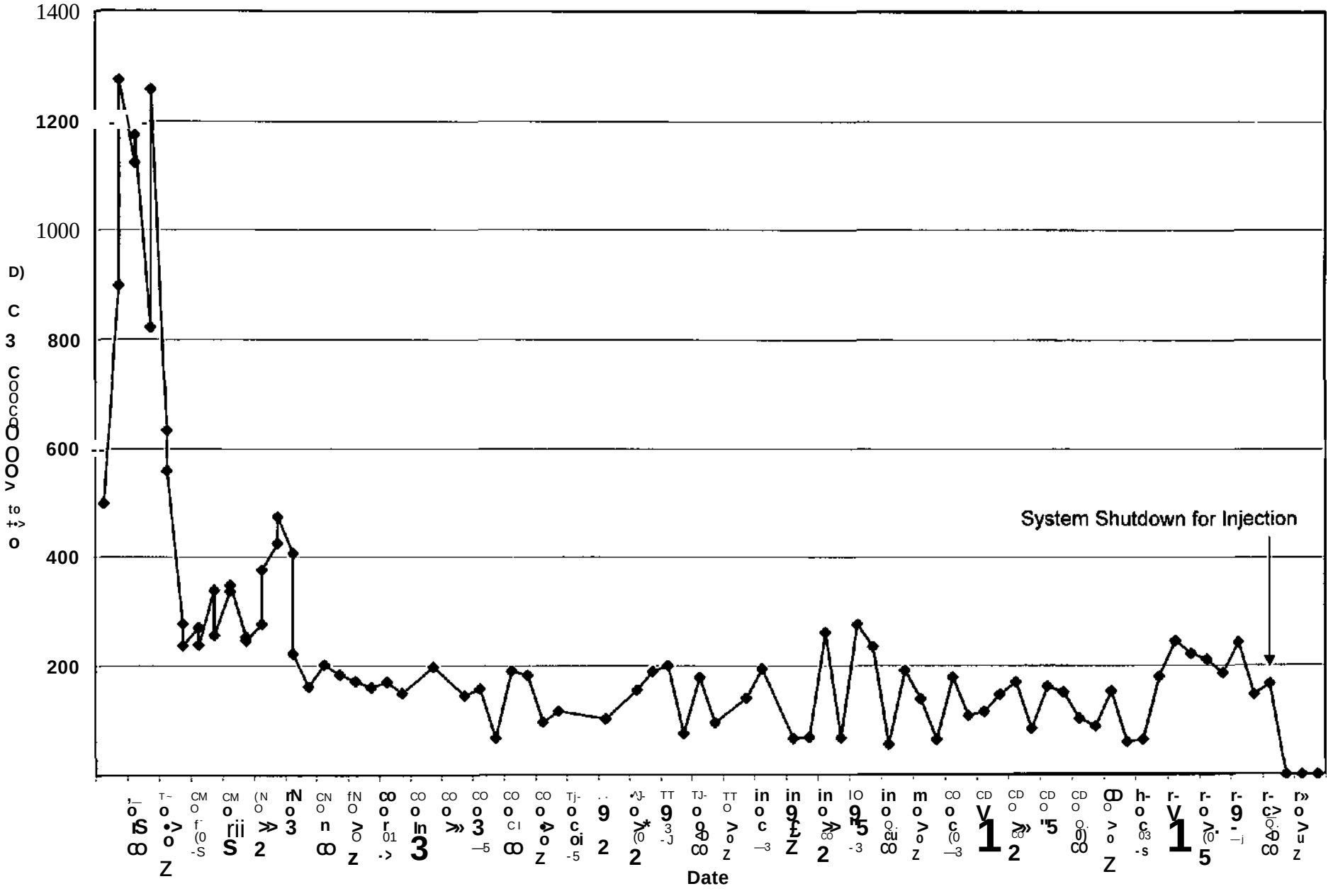
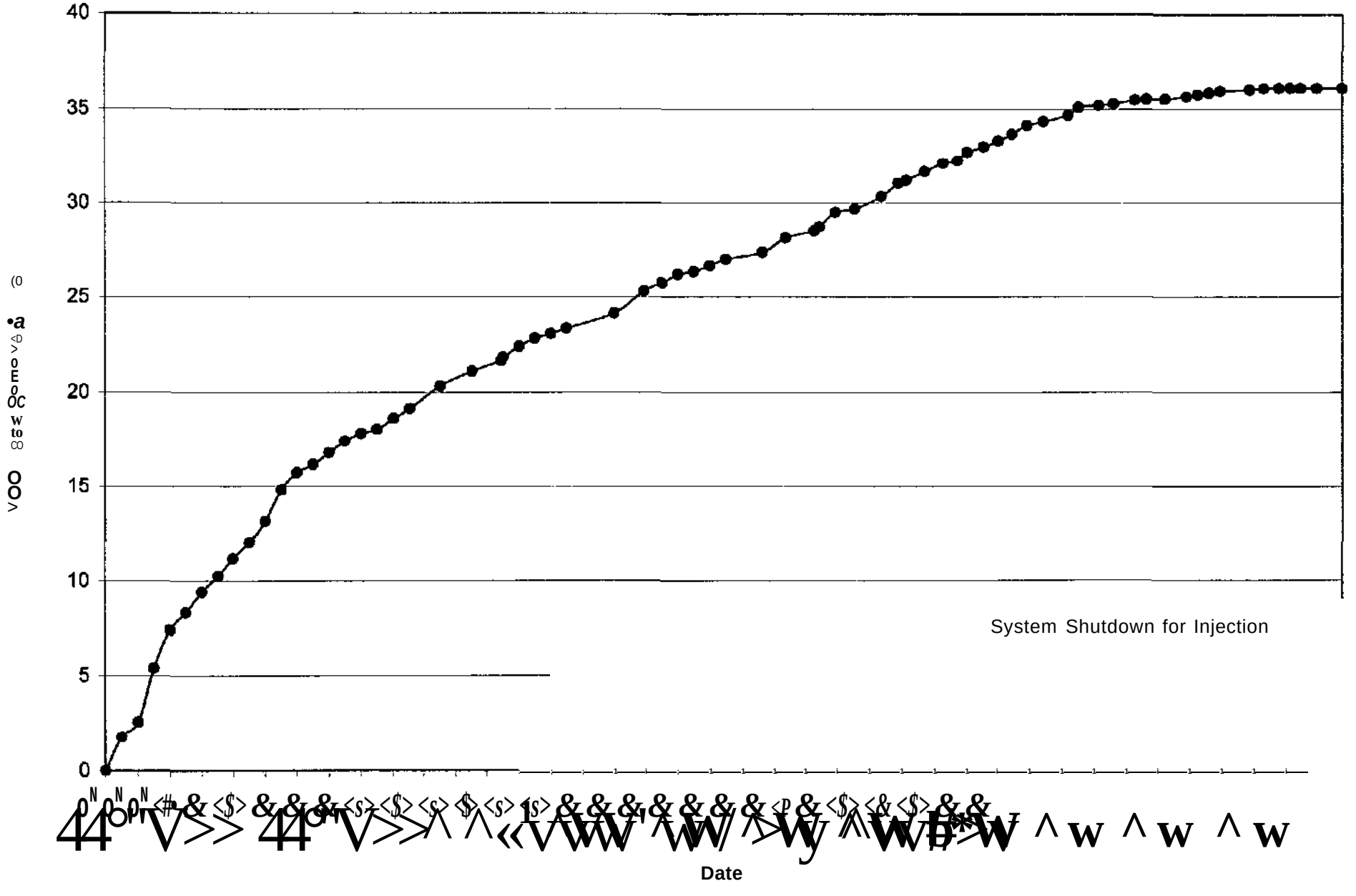
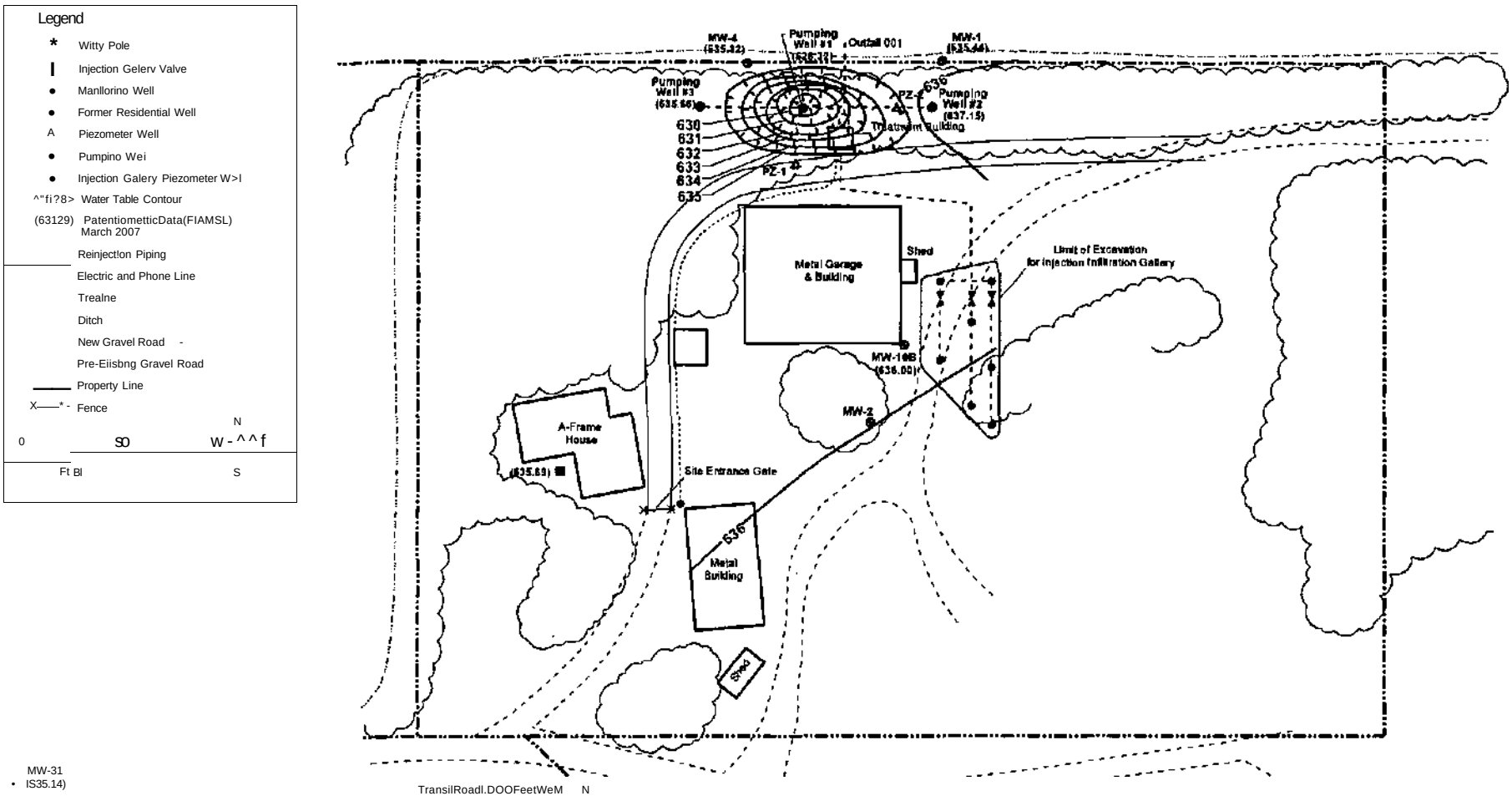


Figure 4
Cumulative VOC Mass Removed
July 2001 to Present
Byron Barrel and Drum Site
Byron, NY





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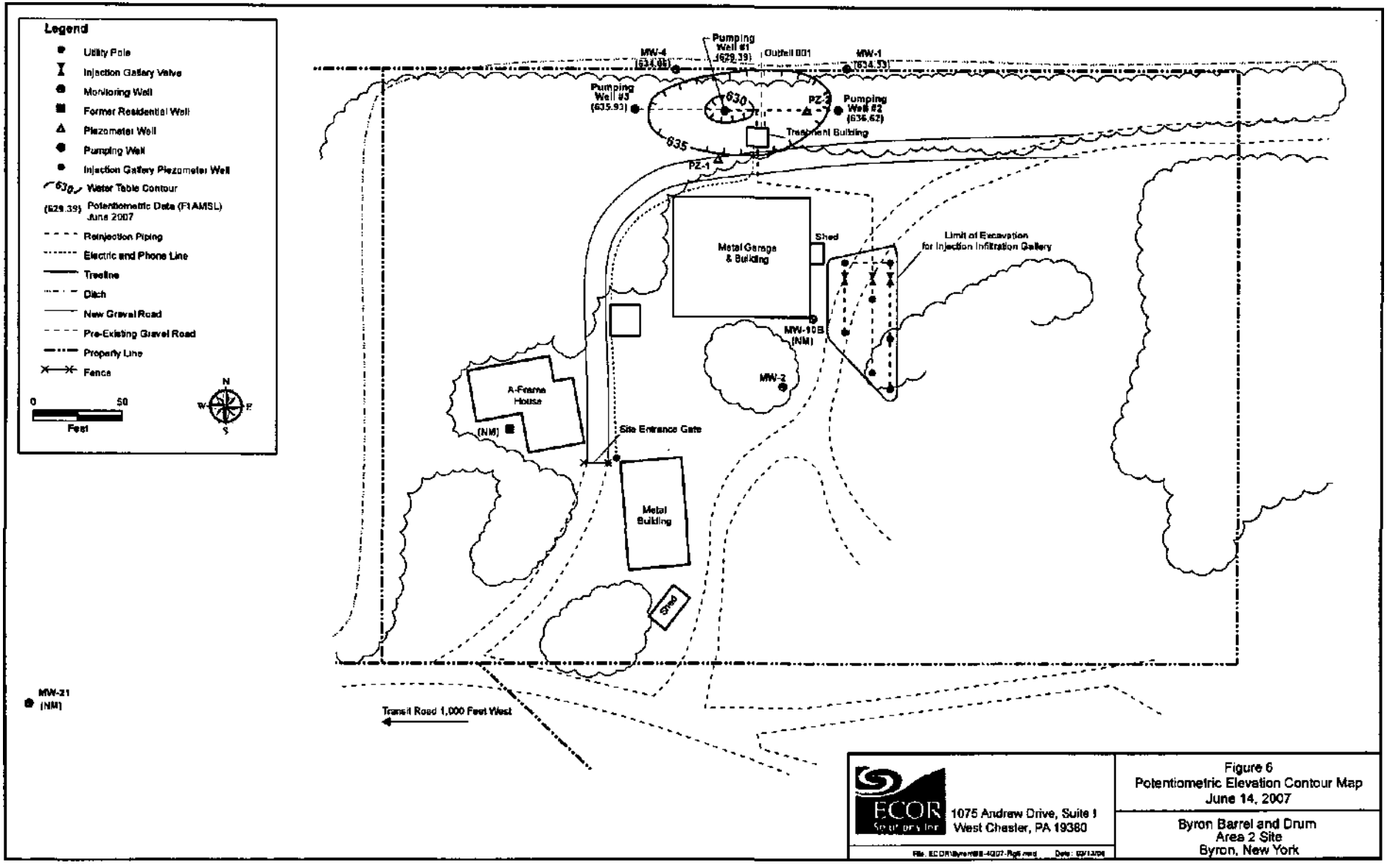
Westchester, PA 19380

Ra. ECOBU»vn>*eB-4O07-HB5ff

Figure 5
Potentiometric Elevation Contour Map
March 22. 2007

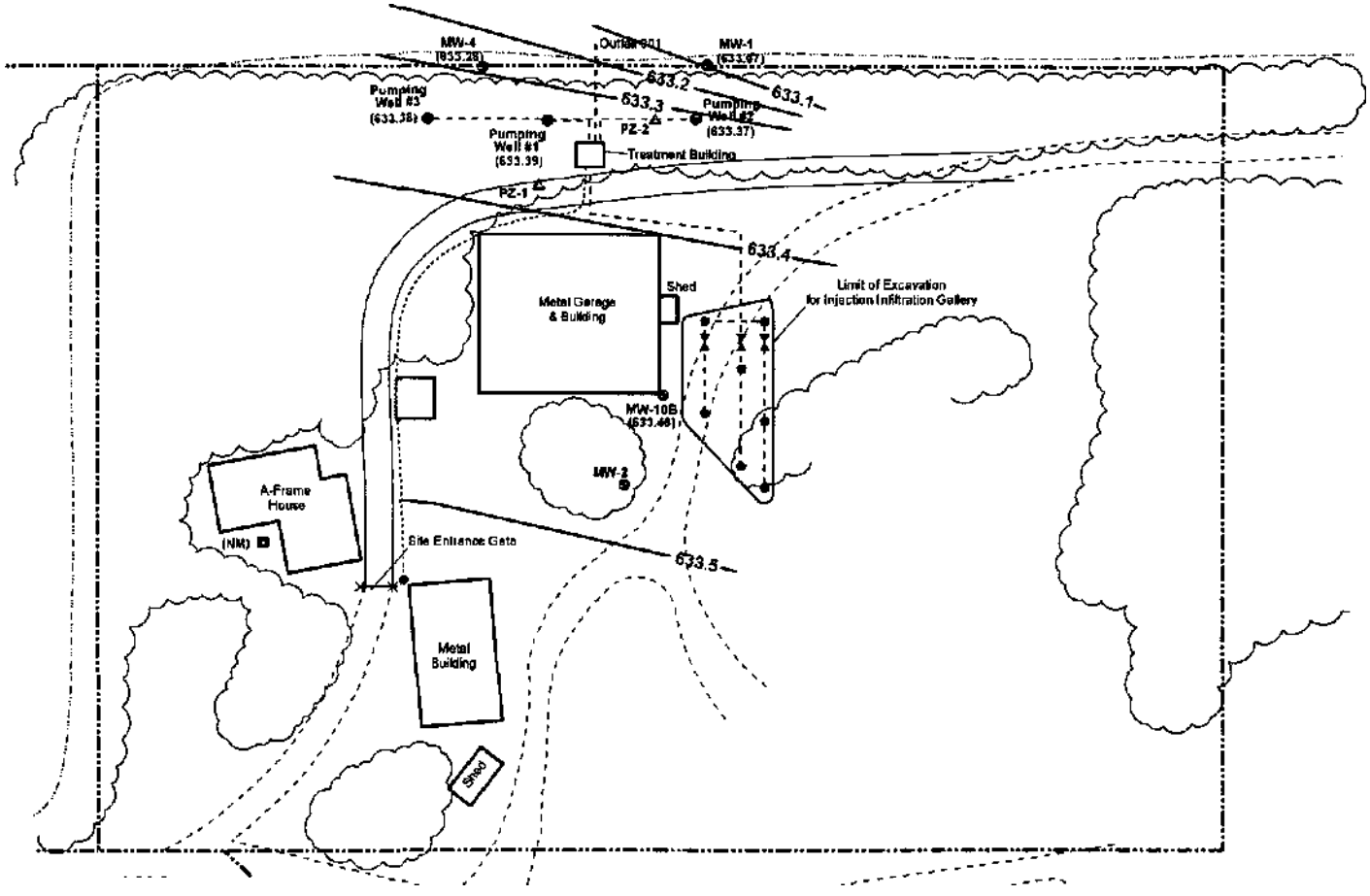
Byron Barrel and Drum
Area 2 Site
Byron, New York


Legend
Utility Pole
Injection Gallery Valve
Monitoring Well
Former Residential Well
Piezometer Well
Pumping Well
Injection Gallery Piezometer Well
630 Water Table Contour
(629.39) Potentiometric Data (FtAMSL) June 2007
Reinjection Piping
Electric and Phone Line
Treeline
Ditch
New Gravel Road
Pre-Existing Gravel Road
Property Line
Fence
0
50
Feet
N
W
E
S
MW-21 (NM)
Pumping Well #1 (629.19)
Outfall 001
MW-4 (634.95)
MW-1 (634.93)
Pumping Well #3 (635.93)
630
PZ-2
Pumping Well #2 (636.62)
Treatment Building
635
PZ-1
Metal Garage & Building
Shed
Limit of Excavation for Injection Infiltration Gallery
MW-10B (NM)
MW-2
A-Frame House
(NM)
Site Entrance Gate
Metal Building
Shed
Transit Road 1,000 Feet West
ECOR Solutions Inc
1075 Andrew Drive, Suite I
West Chester, PA 19380
Figure 6
Potentiometric Elevation Contour Map
June 14, 2007
Byron Barrel and Drum
Area 2 Site
Byron, New York

Legend

- • Utility Pole
- A Injection Gallery Valve
- • Monitoring Well
- • Former Residential Wall
- A Piezometer Well
- • Pumping Well
- • Injection Gallery Piezometer Wen
- ^6 3s_dy Water Table Contour
- (633 07) Potentiometric Data (FtAMSL) September 2007
- " ReinJBCtian Piping
- "" . . . . Electric and Phone Line
- TreeIno
- ———Ditch
- New Gravel Road
- Pre-Eiisting Gravel Road
- — •• — Property Lino
- >*—**- pence

l 50



MW-I1
9 (NM)

Transit Road 1,000 Feet West \

ECOR

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West Chester. PA 19380

eu ECORIB^»~Be^O07-Fij7jiaa

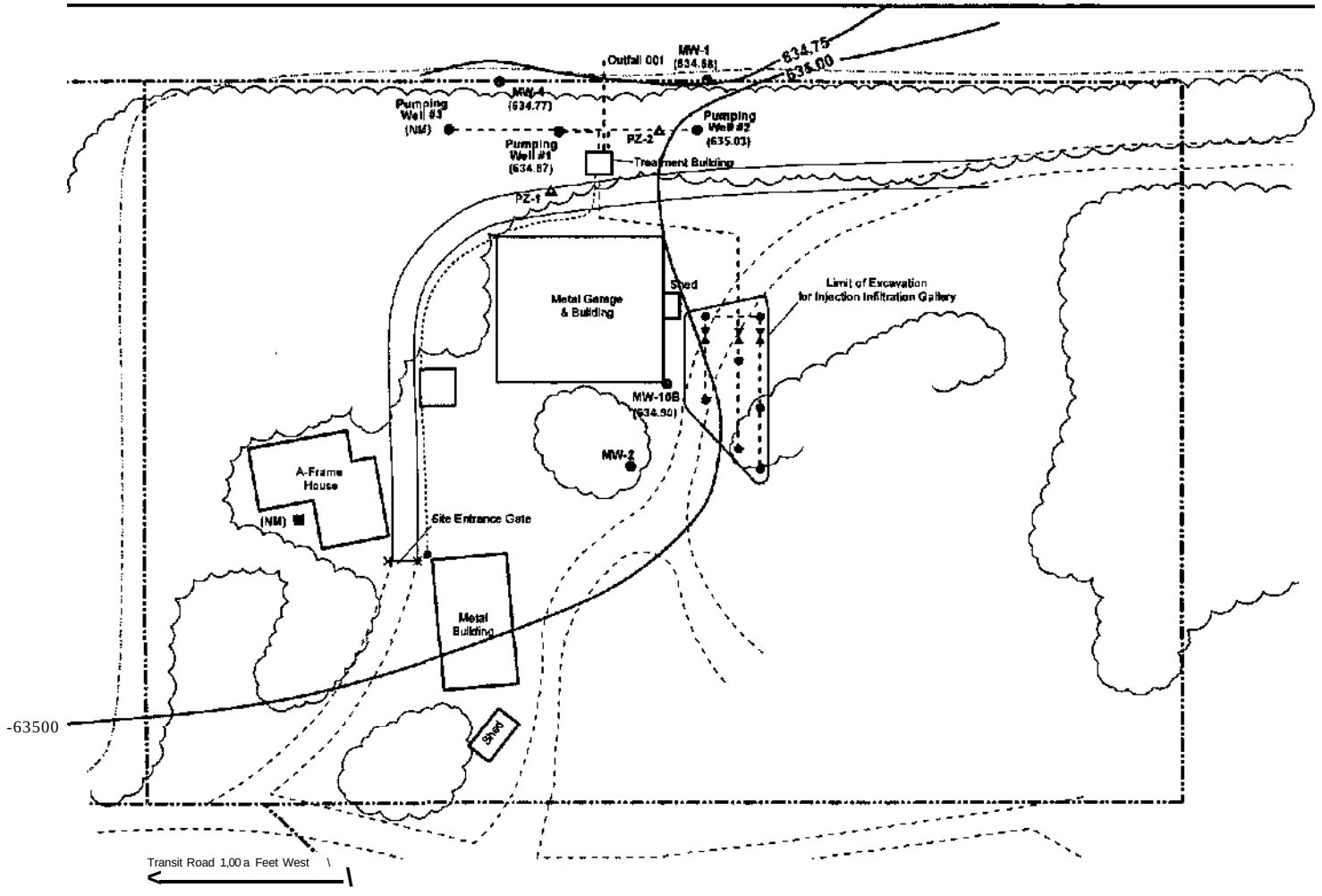
Figure 7
Potentiometric Elevation Contour Map
September 12. 2007

Byron Barrel and Drum
Area 2 Site
Byron, New York

Legend

- • Utility Pole
- X Injection Gallery Valve
- * Monitoring Well
- ' Formal Residential Well
- ^ Piezometer Well
- • Pumping Well
- * Injection Gallery Piezometer Wei
- *833 JS* Water Table Contour
- **(634.9)** PQtenfometric Data (FtAHSL) December 2007
- ReinjecBon Piping
- . . . . . Electric and Phone Line
- Treeine
- ——— Ditch
- Now Gravel Road
- Pre-Existing Gravel Road
- — " — Property Line
- * **" Fence

50



MW-21
a (635.U)

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Westchester. PA 19380

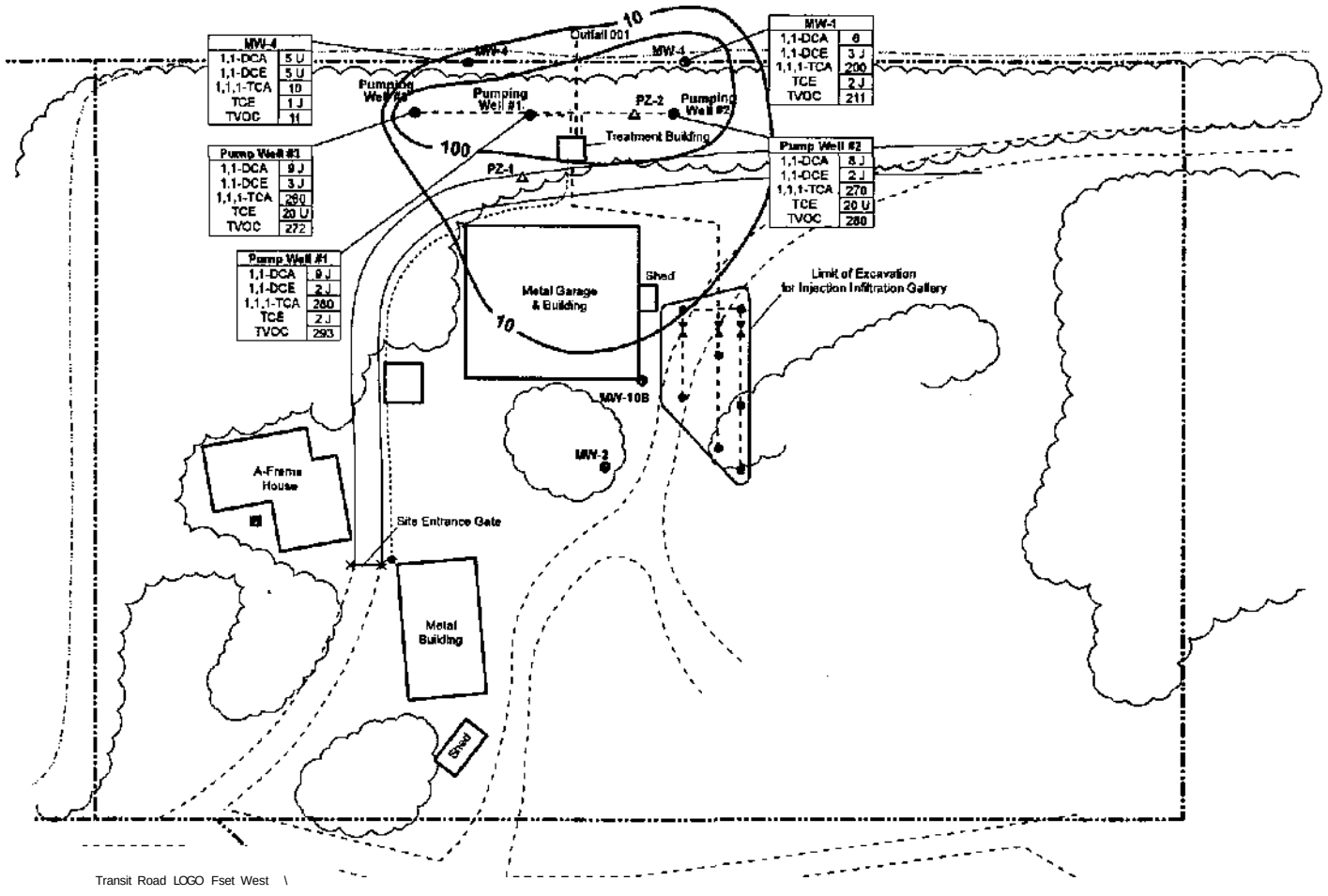
FH. ECC*KByro^BB-4Q07-FtgarTttd P*f P3Ma^0>

Figure 8
Potentiometric Elevation Contour Map
December 19, 2007

Byron Barrel and Drum
Area 2 Site
Byron, New York

Limit of Excavation for Injection Infiltration Gallery
Shed
Metal Garage & Building
MW-10B
MW-2
Treatment Building
Outfall 001
Pumping Well #2
Pumping Well #1
Pumping Well #3
PZ-1
PZ-2
MW-1
MW-4
Site Entrance Gate
Metal Building
A-Frame House
Transit Road 1,000 Feet West
MW-1
1,1-DCA 2 J
1,1-DCE 4 J
1,1,1-TCA 100
TCE 2 J
TVOC 106
Pump Well #2
1,1-DCA 6 J
1,1-DCE 4 J
1,1,1-TCA 80
TCE 1 J
TVOC 103
MW-10B
1,1-DCA 5 U
1,1-DCE 5 U
1,1,1-TCA 6
TCE 5 U
TVOC 6
MW-4
1,1-DCA 5 U
1,1-DCE 5 U
1,1,1-TCA 10
TCE 1 J
TVOC 11
Pump Well #3
1,1-DCA 7
1,1-DCE 4 J
1,1,1-TCA 210
TCE 1 J
TVOC 222
Pump Well #1
1,1-DCA 6 J
1,1-DCE 2 J
1,1,1-TCA 170
TCE 1 J
TVOC 179
Residential
1,1-DCA 5 U
1,1-DCE 5 U
1,1,1-TCA 5 U
TCE 5 U
TVOC 0
NYSDEC Standard
1,1-Dichloroethane 5 ug/l
1,1-Dichloroethene 5 ug/l
1,1,1-Trichloroethane 5 ug/l
Trichloroethene 5 ug/l
Total VOCs
ug/L
he parameter was not
f or above reported limit.
Value
50

22^1



Legend

- Utility Pole
- Injection Gallery Vahre
- Monitoring Wen
- Former Residential Well
- Piezometer Wsll
- Pumping Well
- Injection Gallery Piezometer Well
- Remiection Pining
- Electric and Phone Line
- Tteellne
- Ditch
- New Gravel Road
- Pre-Exiiting Gravel Poad
- Property Line
- Fence

Total VOC lioconc«nti*tion - June 2007

C ^) 10 -100 ug/L

Sample 10	
1,1-OCA	25 U
1,1-DCE	75 II
1,1,1-TCA	25 U
TCE	25 U
TVOC	0

MYSDEC

1,1-Dichtoroethano	5ug/l
7,1 -Dl chlo roethene	5ug/l
1,1,1-TrichloioeBiane	5ug/l
Trichloroethene	Sup/1
Total V O C B	

All results are- in ug/L

U Indicates the parameter was not detected al or above reported imit.

J Estimated Value

I . .J Evceedencefi

0 50

Feel

Transit Road LOGO Fset West \

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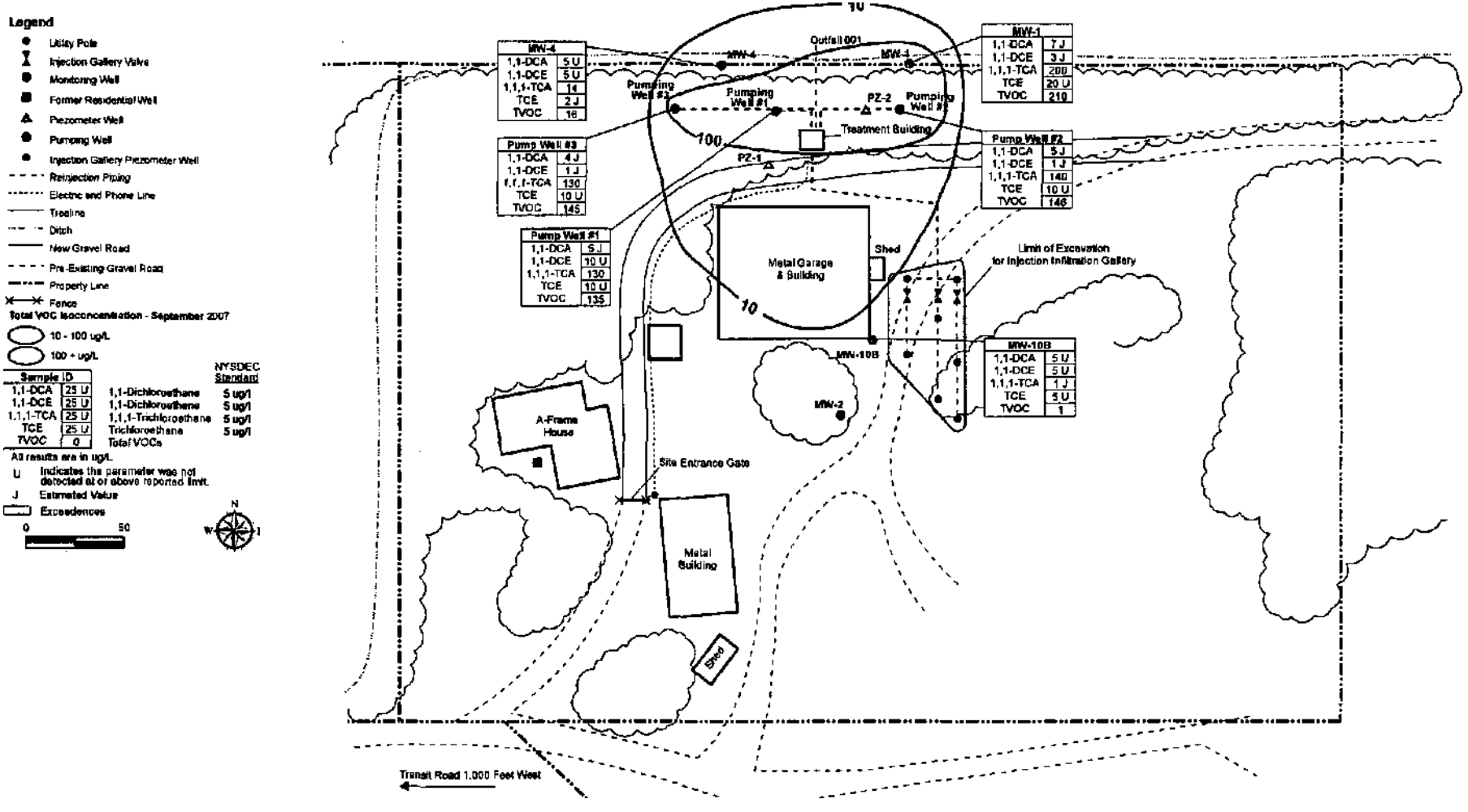
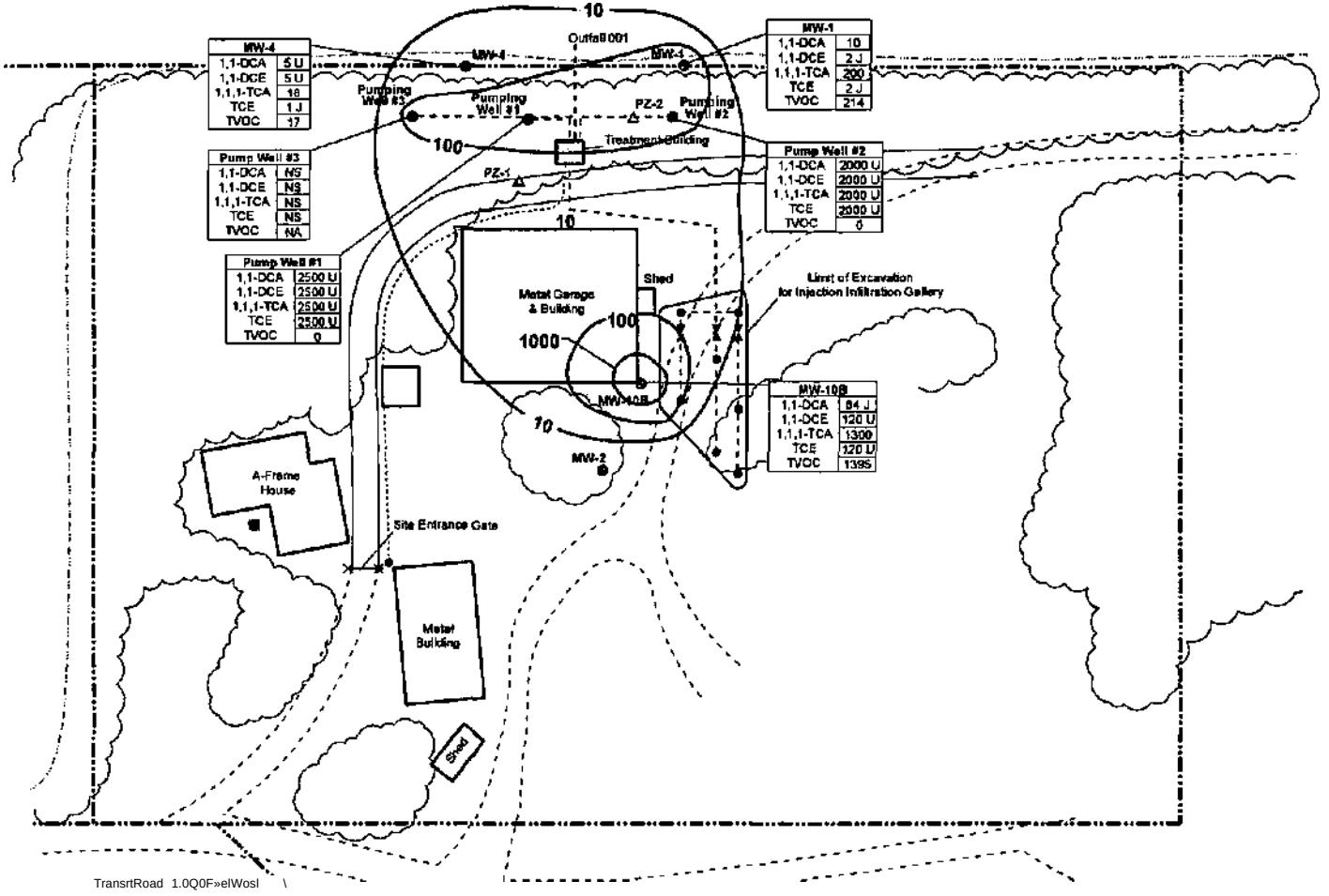
Westchester. PA 19380

FW. ECOR^vfonlBB-JQ07-Flgll Bait; 0JJ1MJ

Figure 10
Groundwater Quality Msp
June 14, 2007

Byron Barrel and Drum
Area 2 Site
Byron, New York


Legend
Utility Pole
Injection Gallery Valve
Monitoring Well
Former Residential Well
Piezometer Well
Pumping Well
Injection Gallery Piezometer Well
Reinjection Piping
Electric and Phone Line
Treeline
Ditch
New Gravel Road
Pre-Existing Gravel Road
Property Line
Fence
Total VOC Isoconcentration - September 2007
10 - 100 ug/L
100 + ug/L
Sample ID
1,1-DCA 25 U
1,1-DCE 25 U
1,1,1-TCA 25 U
TCE 25 U
TVOC 0
NYSDEC Standard
1,1-Dichloroethane 5 ug/l
1,1-Dichloroethene 5 ug/l
1,1,1-Trichloroethane 5 ug/l
Trichloroethane 5 ug/l
Total VOCs
All results are in ug/L.
U Indicates the parameter was not detected at or above reported limit.
J Estimated Value
Exceedences
0
50
N
W
E
MW-4
1,1-DCA 5 U
1,1-DCE 5 U
1,1,1-TCA 14
TCE 2 J
TVOC 16
MW-1
1,1-DCA 7 J
1,1-DCE 3 J
1,1,1-TCA 200
TCE 20 U
TVOC 210
Pump Well #3
1,1-DCA 4 J
1,1-DCE 1 J
1,1,1-TCA 130
TCE 10 U
TVOC 145
Pump Well #2
1,1-DCA 5 J
1,1-DCE 1 J
1,1,1-TCA 140
TCE 10 U
TVOC 146
Pump Well #1
1,1-DCA 5 J
1,1-DCE 10 U
1,1,1-TCA 130
TCE 10 U
TVOC 135
MW-10B
1,1-DCA 5 U
1,1-DCE 5 U
1,1,1-TCA 1 J
TCE 5 U
TVOC 1
Outfall 001
MW-4
MW-1
Pumping Well #2
Pumping Well #1
PZ-2
Pumping Well #3
Treatment Building
100
PZ-1
10
Metal Garage & Building
Shed
Limit of Excavation for Injection Infiltration Gallery
MW-10B
MW-2
A-Frame House
Site Entrance Gate
Metal Building
Shed
Transit Road 1,000 Feet West



Lagend

- Utility Pate
- 1 Injection Gatery \ftVe
- Monitoring Wei
- Former Residential Well
- A Piezometer Well
- Pumping Well
- Injection Gallery Piezometer Well
- Reinfection Piping
- Etectnc and Phone Line
- Treeline
- Dtlcfi
- New Gravel ftosd
- Pre-Eroting Gravel Road
- Properly Line
- X——* Fence

Total VOC lioconcentratlan - Decembar 2007

C7-!^ IO-IOOUOJL

C ^ 100-1000 ugrt.

C "5 100Q + ua/L

8am pit ID			NYSDEC
1,1-DCA	25 U	1,1-OicMoroetriBne	5 ug/l
1.1-DCE	7SII	1,1-Dichloroolhene	5 ug/l
1,1.1-TCA	25 U	1,1,1-Ttichbroelhane	S *ug/l*
TCE	25 U	TrichlofoarJione	5 *ug/l*
TVOC	0	Total VOCi	

AI results ore in ug/L

u Indicates the parameter was no! detected at 01 above reported Imrt

J Estimated Value

i ' Erceedences

0 SO

Feel

UW-2	
1.1-DCA	50 U
1,1-DCE	SOU
1,1,1-TCA	50 U
TCE	SOU
TVOC	0

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Westchester, PA 193B0

Fh ECOmeyr»nIBB-«aa7-FigIln

Figure 12
Groundwater Quality Map
December 19, 2007

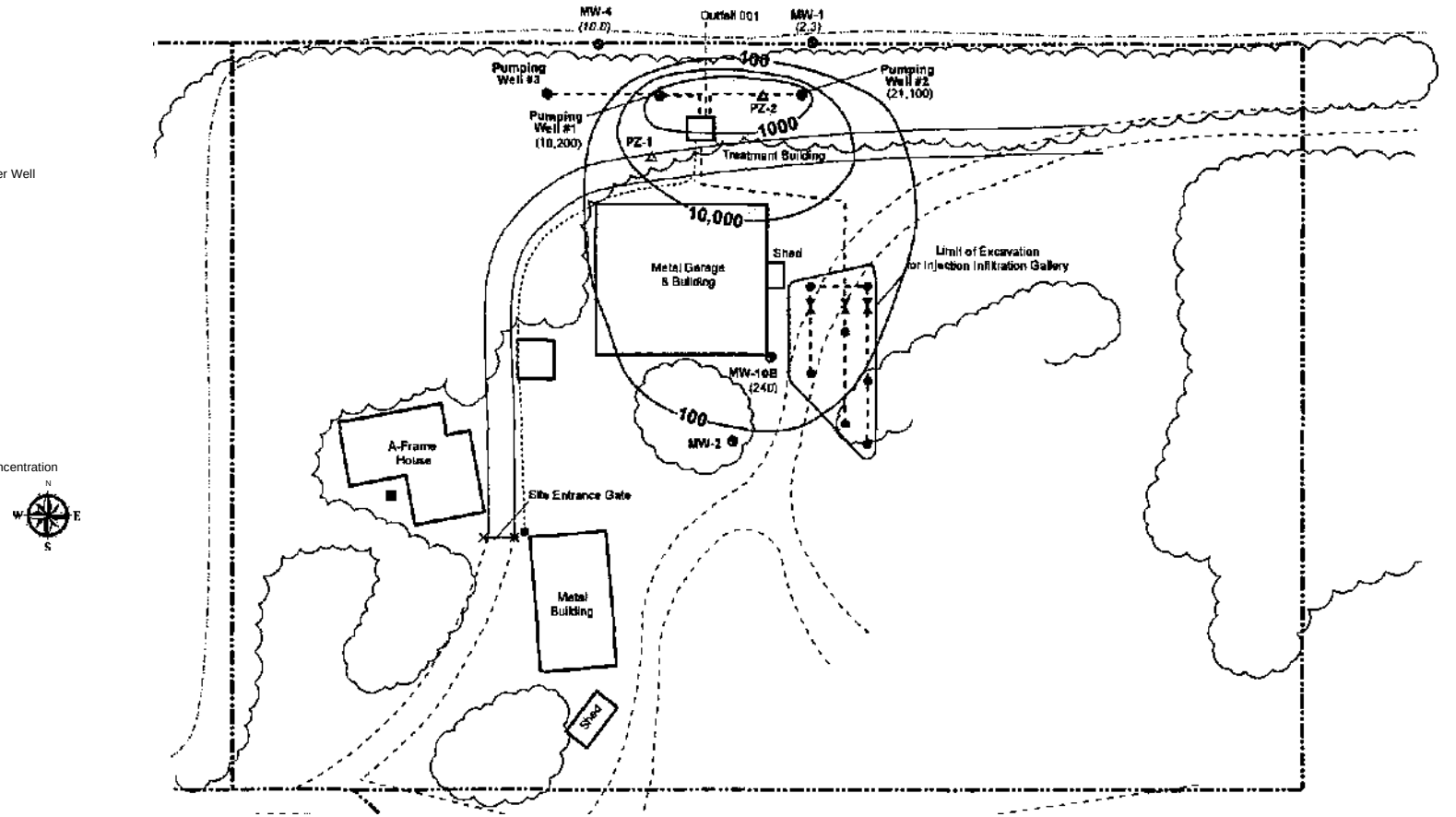
Byron Barrel and Drum
Area 2 Site
Byron, New York

Legend

- * Utility Pole
- X Inject on GaUeiy Value
- • Monitoring Well
- • Former Residential well
- A Piezometer Welt
- • PumpinfjWell
- * Injection Gallery Piezometer Well
- " Reinjeclian Piping
- . . . . . Electric and Phone Line
- Treelne
- ~ ~ Ditch
- New Gravel Road
- Pre-Eiistlna Gravel Road
- *"""""* Property Line
- * **" Fence

Total Organic Carbon (ug/L)

- (^___]) 10,000 +
- (^ ^) 1000-10,000
- C ^) 100-1000
- (240) Total Organic Compound Concentration December 2007 (ug/L)



MW-21
• (1B.7)

Transit Road 1,000 Feet West \

ECOR

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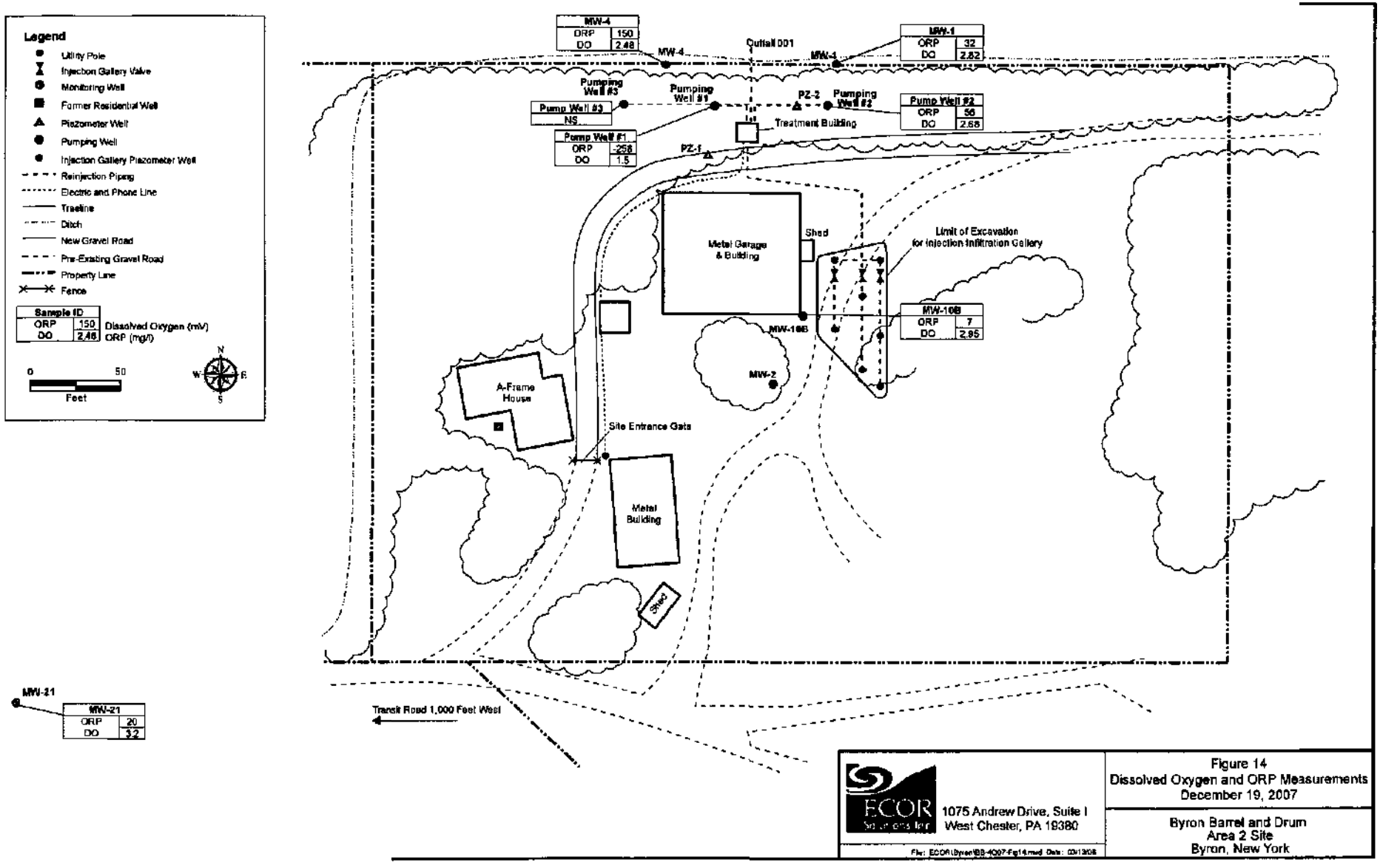
Westchester, PA 19360

Fto. BB-4Q07 Figi: D>»: £QJI7IOt

Figure 13
Total Organic Carbon Concentrations
in Groundwater - December 19, 2007

Byron Barrel and Drum
Area 2 Site
Byron, New York



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West Chester, PA 19380

File: ECOR\Byron\BB-4007-Fig14.mxd Date: 02/13/08

Figure 14
Dissolved Oxygen and ORP Measurements
December 19, 2007

Byron Barrel and Drum
Area 2 Site
Byron, New York

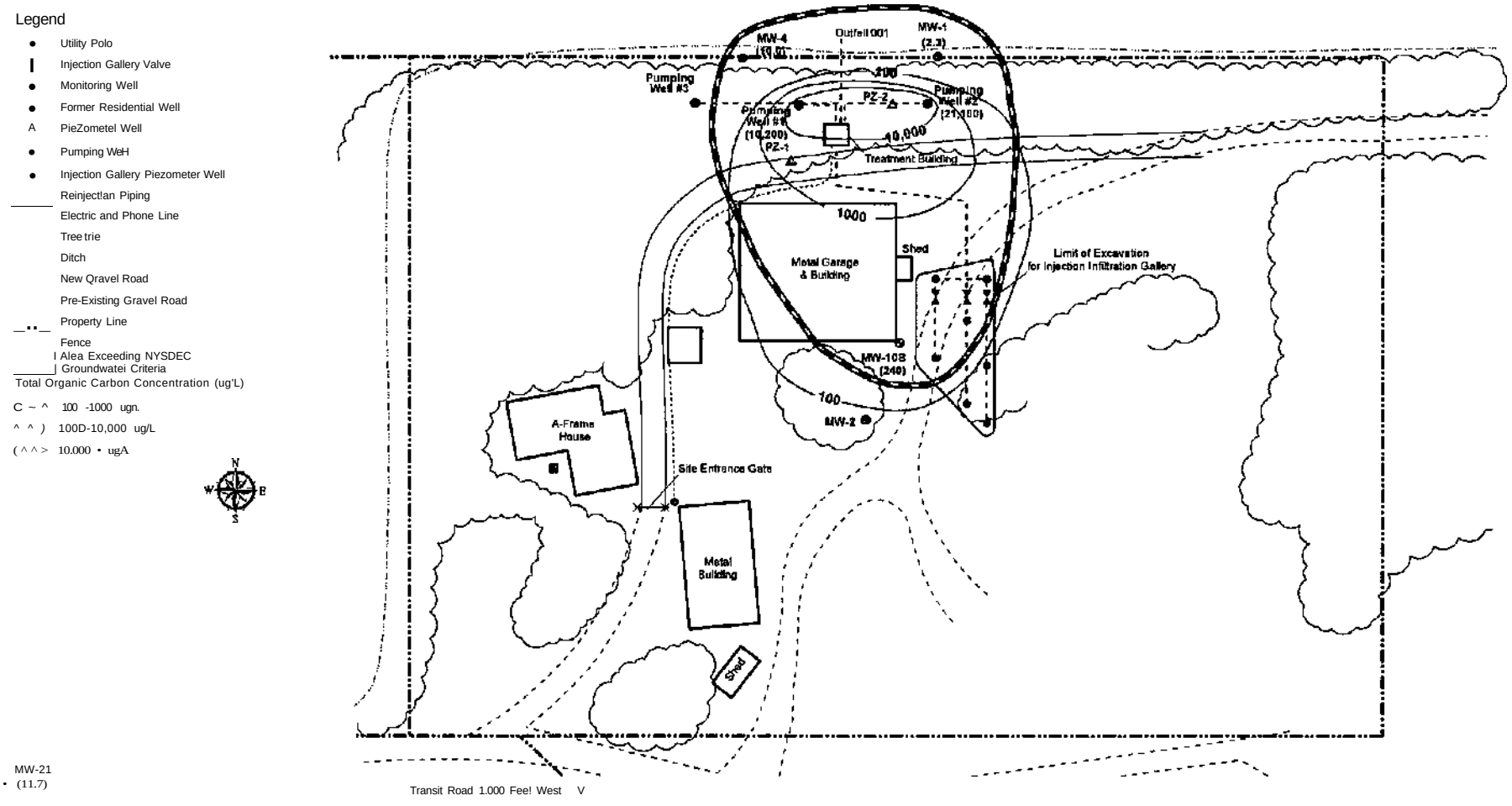


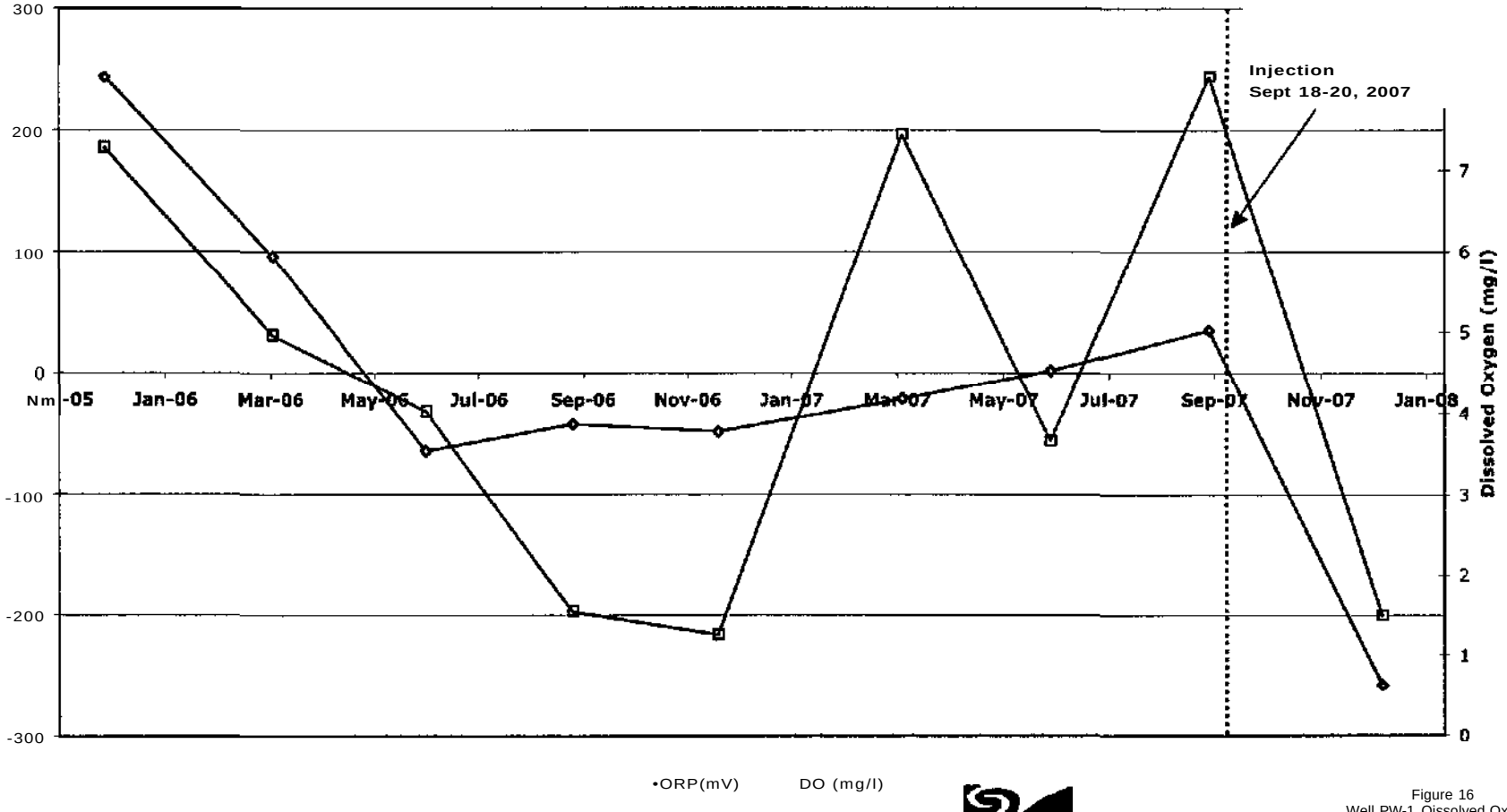
Figure 15
Area Exceeding DEC Groundwater Criteria
2007 with Total Organic Carbon Con centra Sons

Byron Barrel and Drum
Area 2 Site
Byron, New York

ECOR
So is: rjri lr-r
1075 Andrew Drive, Suite I
WestChester, PA 19380

FU. Ba-4QQ7-Ftg1S *mwd* Di». tO*17JO&

Figure 16
Pumping Well PW-1 Field Parameters



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Westchester. PA 19380

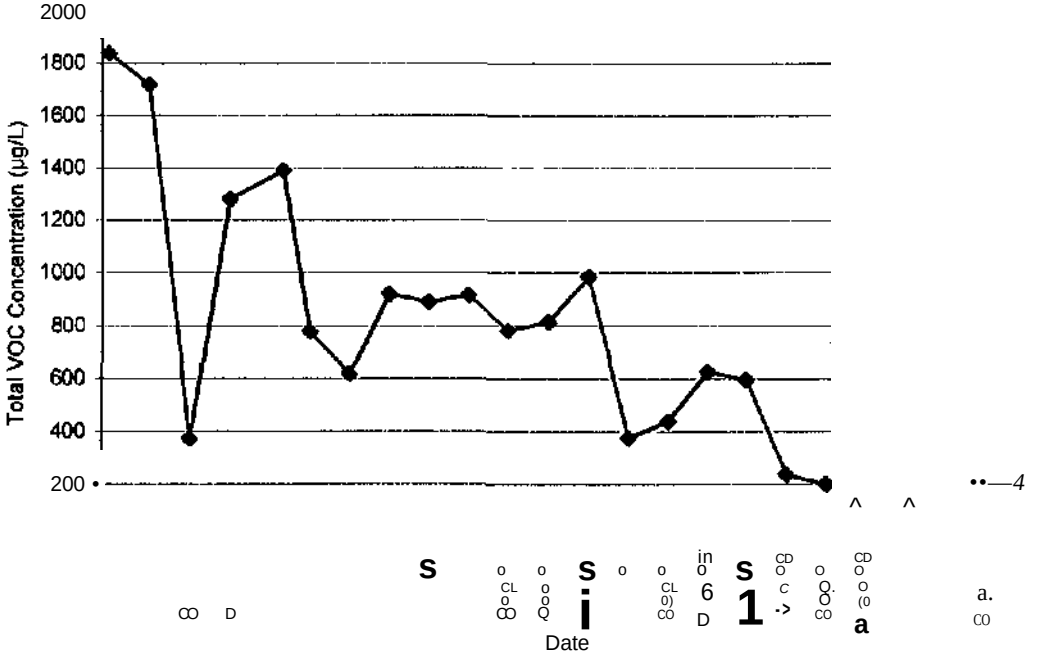
Ffc aB-4O07-Fig16 m«d D»»; IBOftos

Figure 16
Well PW-1 Oissolved Oxygen
and ORP Measurements

Byron Barrel and Drum
Area 2 Site
Byron, New York

Figure 17
Byron Barrel and Drum Site
Monitoring Well MW-1 Total VOC Trend Analysis

Total VOC Concentration at MW-1 Vs. Time



Natural Log Total VOC Concentration at MW-1 Vs. Time

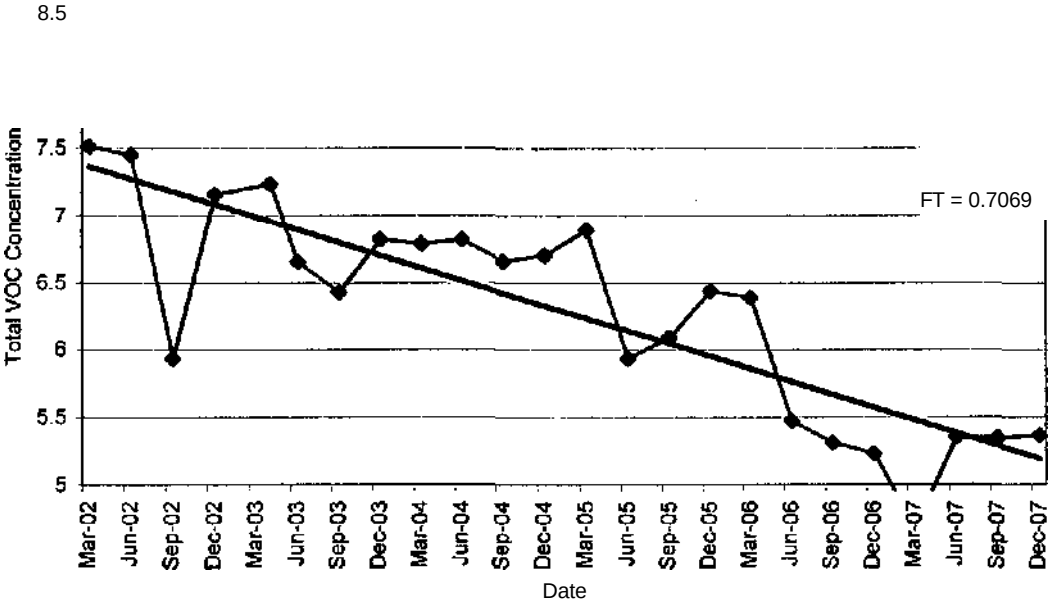
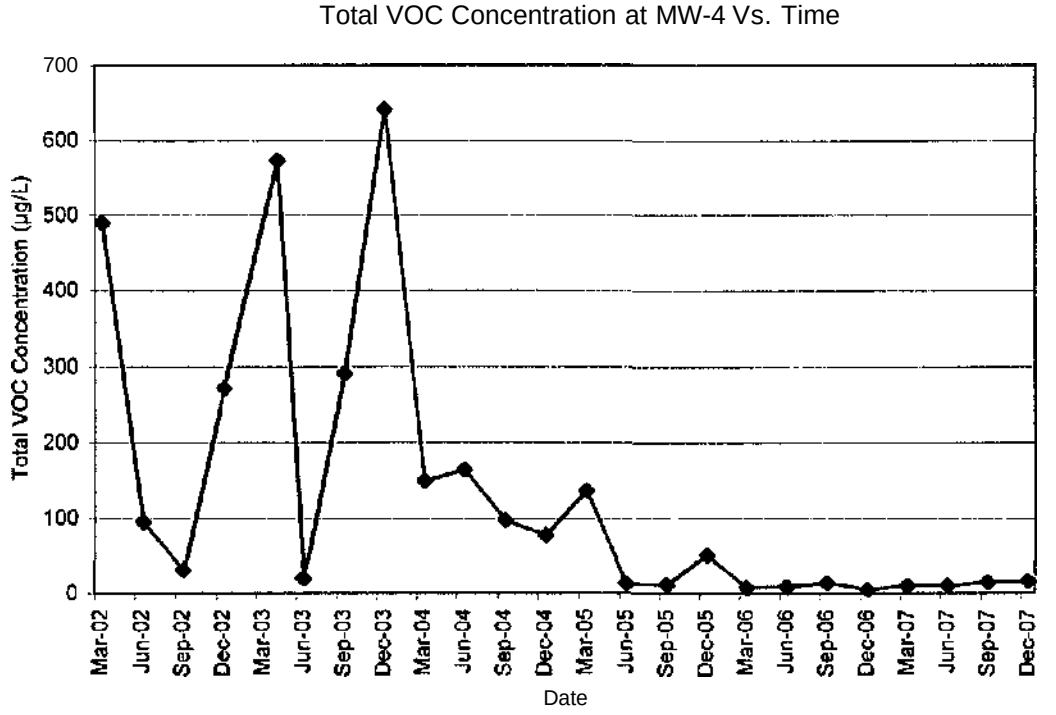


Figure 18
Byron Barrel and Drum Site
Monitoring Well MW-4 Total VOC Trend Analysis



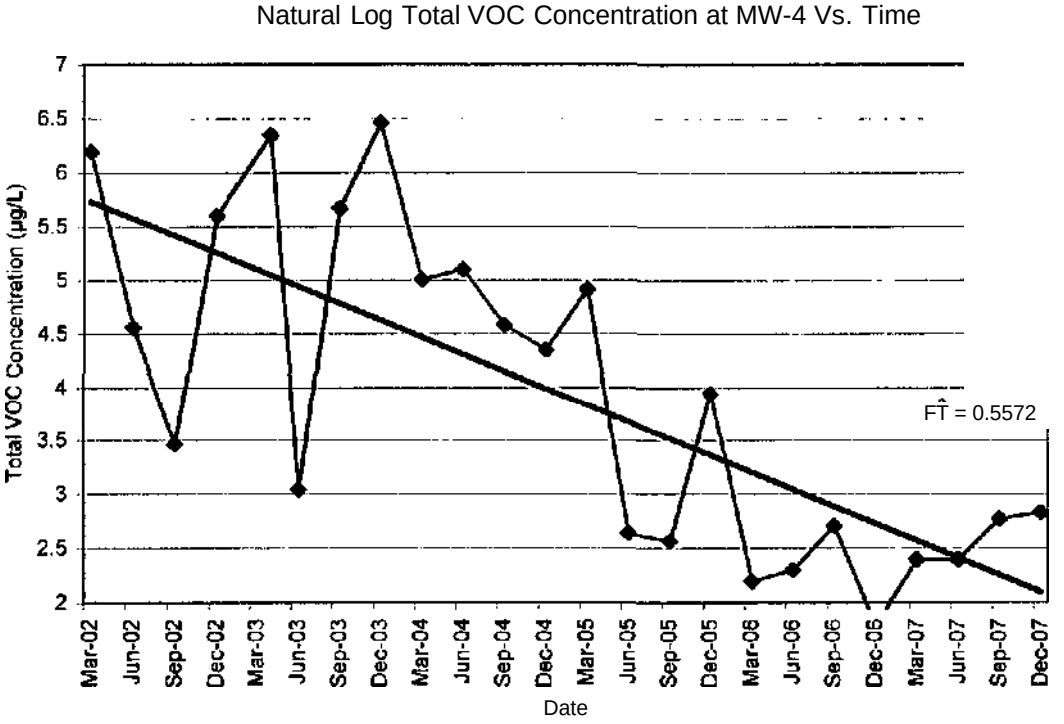
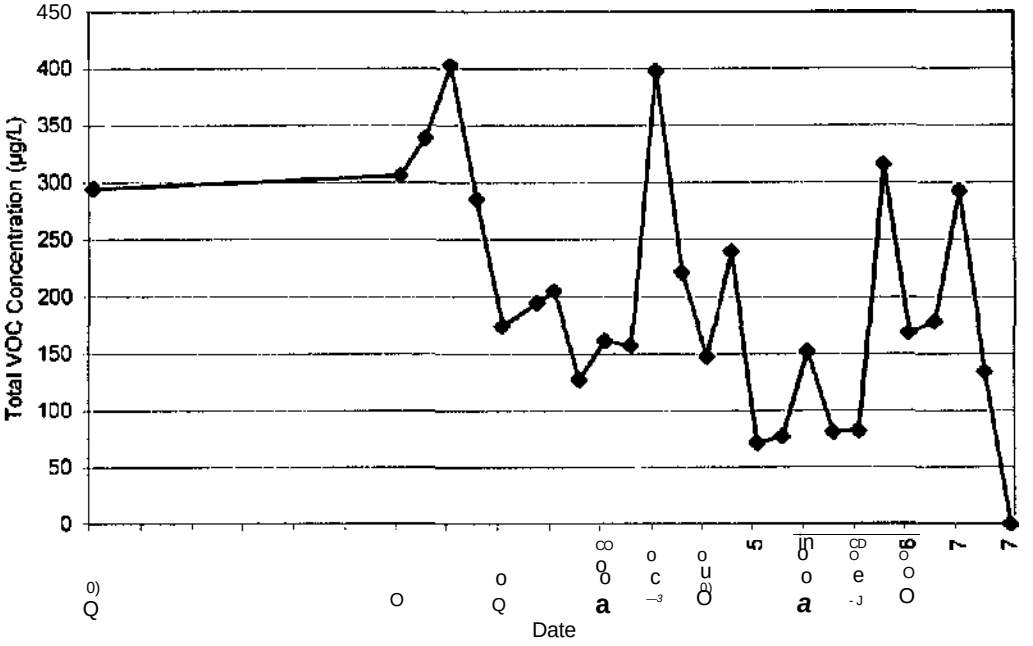


Figure 19
Byron Barrel and Drum Site
Pumping Well PW-1 Total VOC Trend Analysis

Total VOC Concentration at PW-1 Vs. Time



Natural Log Total VOC Concentration at PW-1 Vs. Time

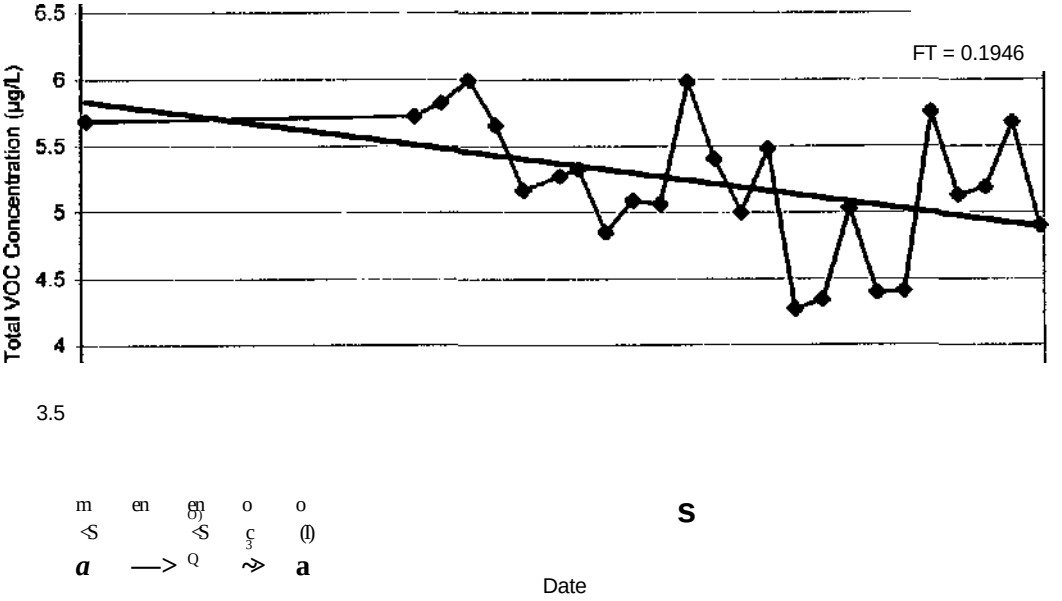
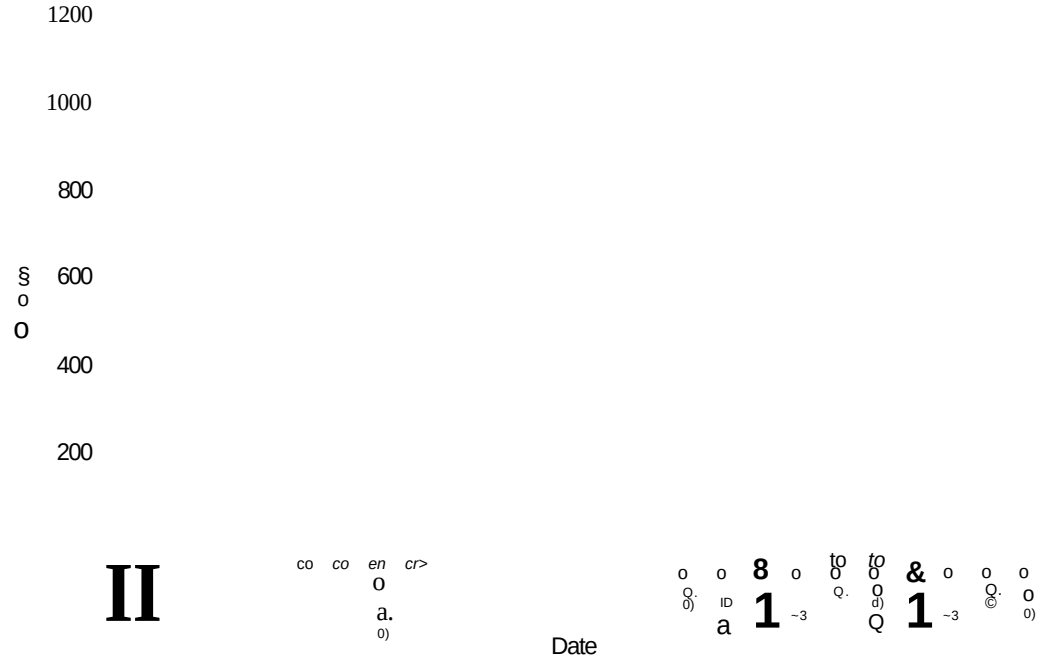
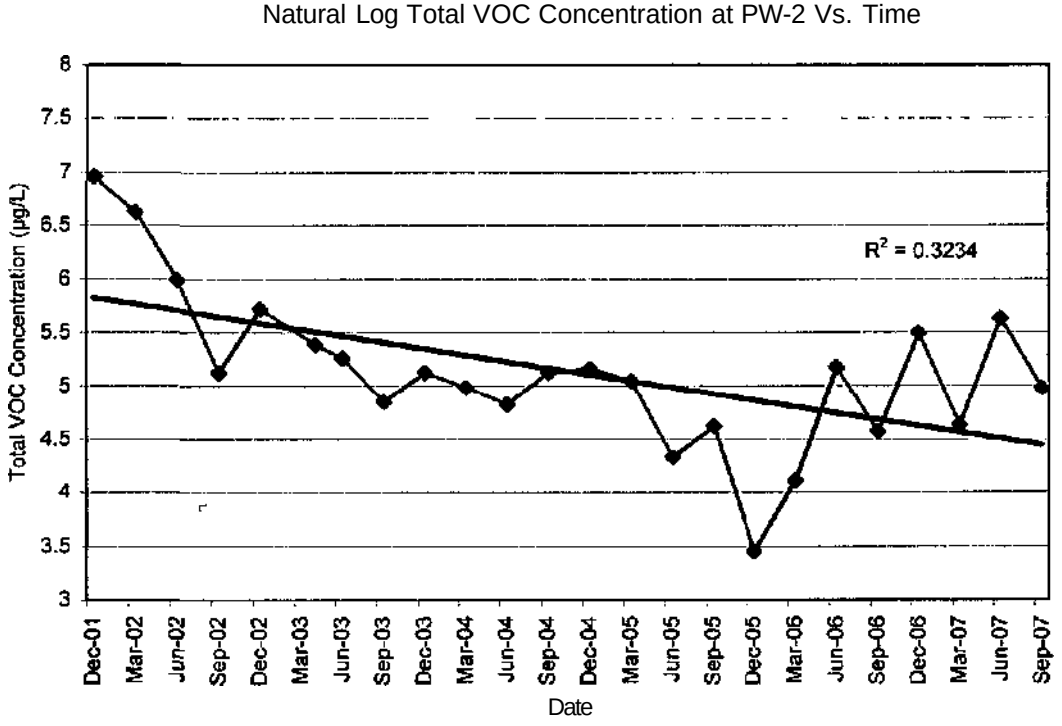


Figure 20
Byron Barrel and Drum Site
Pumping Well PW-2 Total VOC Trend Analysis





APPENDIX A
Field Notes

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Groundwater Elevations

Operator *ffo^L /*W<.*

Date: *&'/<f-0~7*

Pumping Wells	P7W	TOC Elevation	GW Elevation	TD	w.c.> ft
PW-1	7 W	**642.82**	*fw*ri*	*m'*	*m*
PW-2	*s.31*	**641.34**	*63fOl*	_	*m*
PW-3	*113*	**641.11**	*UH>86*	_	-
Monitoring Wells					
MW-1	****r**	**639.63**	*6MJB*	***\t*iv***	*6.1**
MW-2	*l\.*i*	**646.36**	*tww*	*/s:o£*	*3.&i*
MW-4	*Z71*	**638,56**	*62H-11*	***li.SO***	*7*7/*
MW-1 OB	*t.ri*	**644.44**	*6ZH10*	*ao^z.*	***/0.1&***
MW-21	*1<8I*	**642.52**	***£?v.11***	*-?7 8'£*	***30.0^***
Residential	*l&.W*	**650.78**	*ew<$i*	*••ST,'*"**	*I%13*
Piezometers					
PZ-1	7 7 *	**643.11**	***£3>r,31***	*27.ol>*	*f*3d*
PZ-2	70~6	**642.39**	***{M. S3***	*-zi.*f*	*Sf.tf*

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: / ? - ^ M n

Job #: 01501.002

Sample ID: *fl*/'? /Co»'2y*

Well ID: ^*ou* - / Time onsite: Time Offsite:

Samplers: *fit*/fa.* //yy yaa£

Depth of Well (from top of casing) -* Time:

Static water level (from top of casing) ~7,f>"~ Time: *jfff*

Purging Method;^ *e&^w*
Qadicated UlaUdtil pump; QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmin) / purge volume (mL)		Temp. °C	ORP mV	pH 3td. Units	TDS	DO mg/L	Spec. Cond. mS/cm
i\r*	***J0O /*V(/M.»»***		***fin***	*-2Y1*	*1-2°*	***1.3***	*/ . 7 7*	*&oJ~*
lit*			***P-n***	*^7so*	*1-Xy*	*(•?*	***in****	***z*r~***
I2.00			***8-t***	*-XS-i*	7.3>-	**A3**	*Ui*	*2,0!>'*
fttf			***8-8***	*~2$~sr*	*1,70*	*hi*	*l.to*	***ZcS***
ft'*			***8-G***	***~m***	*1.J3*	***/•J***	*(•SS*	***2o -T***
Utf			***g,e***	*~zs9*	*7. IT*	***/•J***	*('S3*	***2^~~***
*f2*o*	V		***en***	**.?S0*	***-i.n***	**AJ**	*(.*>*	*2o>'*

Sampling:

Time **of** Sample Collectio *LX^to*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other

Observations:

Weathe r/Temp8ratu re *./.w 7 '* >

Sample Description: *w <<4 r\>f*7*

Free Product? Yes No A Descript.:

Sheen? • Yes No X 1Descript.:

Odor? Yes X No 1Descript.: *JU*4*T St<><f *&**

Comments:

/n<(ty UA'k.

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: A?-j/*;«0

Job #: 01501.002

Sample ID: ^ J / ^ ^ y

Well ID: *fit^f^X.* Time onsite: Time Offeite;

Samplers: *P+l.UlL* ***f*fT*** *JJ^T*

Depth of Well (from top of casing) — _ Time: ""

Static water level (from top of casing) *£.7^f* Time: *(*jo*

Purging Method.;**. *fiahc*r*S* ***** *°

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmjn) / purge volume (mi)		Temp. °C	ORP mV	pH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
/ / »^y	*l0o* *<•/***		*C.f*	*72*	*1.11*	***/•v***	***v.n***	***^zz***
lib ?			***&.r***	*Cl*	*l./l*	***'Y***	*£/,#o*	*ZXf*
///<>			*£»*	*61*	*1,0 1*	***hi***	*7<6Z*	*2ZJ'*
II If			*£9*	***c«r***	*-),oO*	*IM*	*-5,00*	*Z2**
\\2°			*6'0*	*Co*	*7.00*	*i.S*	***z<y***	*&4*
n*f			*6,*/*	*£9*	*1.0*	***l,f***	*7 ^*	*^21*
1130			***£?***	*S"?*	*~?.of*	***Ar***	*2-76*	*Z?6*
lOf	V^r		***c-r***	*S<-*	*y.ao*	***h~***	*2-t**	*2X8*

Sampling:

Time of. Sample Collectio **m>**

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: *Sosu %o**

Sample Description: */va/Zt-y*

Free Product?	Yes		No ^	De scr ipt,:
Sheen?	Yes		No ^	Descrlpt:
Odor?	Yes	**X**	No	Descrlpt.: *Sir a0fA*

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum **Date:** */Z-/f-*

Job #: 01501.002

Sample ID: */*wj-t* ***-9/tt*'-*?***

Well ID: */Hu/ ~ /* Time onsite: Time Offsite:

Samplers: *p. I */J~^* /o/i ***if to***

Depth of Well (from top of casing) / / . I ^ Time: *tWo*

Static water level (from top of casing) V.?->" Time: / P / P

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/min) / purge volume (mi)		Temp. °C	ORP mV	PH 3td. Units	TDS g/L	DO mg/L	Spec, Cond. mS/cm
lotr	3cyn£y4*^		*1-*"*	*Jt*	*7.3Z*	*.£*	*Sot*	*SYS*
(OAJ>			**<P**	*2&*	*71°*	*.6*	*2-W*	*6*f*
/o2f			*1,1*	*Jl*	*7,2$*	*X*	*2.f/*	*8*'*
/QJo			*q,o*	*JA*	*7.2$*	*.Q*	*2,fo*	*8/1*
l&3f			***r°***	*?X*	*7s?7*	*X*	*1.S1*	*3*°*
ioio			*g.B*	*3 **	*7zc*	*X*	*2-*i*	*7?7*
toyf	\ /		*9,1*	*3X*	*7*/*	*X*	*2.$^*	*71 S*
								'

Sampling:

Time of Sample Collectto *le>l/f*

Collection Method:	*Analyses:*	*Analytical Method:*
_X_ Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: *irfl**j/sr>w 33*

Sample Description: ***Cl"'***

Free Product?	Yes	No	*g^*	Descript.:
Sheen?	Yes	**No**	***A***	Descript.:
Odor?	Yes	No	*•	Descript.:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: tfr/f-eO

Job #: 01501,002

Sample ID: /tt»>-* y-

Well ID: /\w[1]/ Time onsite: Time Offsite:

Samplers: / ? / / M : ft>3r ?2%5~

Depth of Well (from top of casing) ll.?[c] Time: $2f

Static water level (from top of casing) g ^ ? Time: fay?

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mUmin) / purge volume (mL)	Temp. "C	ORP mV	PH fetd. Units	TDS	DO mg/L	Spec. Cond. mS/cm
fOSO	&<*/«	lb	131	-?•¥*	< ? . ^		
loSf		71	/A	L.VfX	oS"		
<7		LB	lif	7-/2L	O.J"		-JOS'
/ / o			m	7<A	of.^		0B_
/ / ' "			iii	7.VY	OS	ZSf	
Hi*		e.n	is*	7.VJ	OS		{10
fllfi		0f		? y j	0*>		

Sampling:

Time of Sample Collectio *//20*

Collection Method:
X Dedicated pump

Analyses:
X VOCs

Analytical Method:
8260 X 503 Other:

Observations:

Weathern'emperature: *33**

Sample Description:

Free Product? Yea No *K* Descript:

Sheen? Yes No <K Descript.:

Odor? Yes No ^ \ Descript.:

Comments:

jnS/^tj< *O** *ISM*

ECOR Solutions, Inc.
Byron Barret & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: /;?-/*9-c7

Job #: 01501.002

Sample ID: /**J- /og~? /&t~ v*. Y

Well ID: /nwfr# Time onsite: Time Offsite:

Samplers: f»l /f-£+ &vr t33Q

Depth of Well (from top of casing) £o>%%< Time: P&>

Static water level (from top of casing) %Sf Time: ASyj*""

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	Flowrate (mL/mln) / purge volume (mL)		Temp. °C	ORP mV	pH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
I3LS°	yosfat/*^		0-0	13	~},I0	. f	2>,/6	fjoo
W*			S-3	IX	l.a	fS-	•3<"	I013
n<?*			8-1	I°	7.»'	,r	Z*7	/o9o
ii*r			0.O	Jo	l.n	-sT	1**9	/off
ftiO			0-0	e	~),20		3.oo	10$^
IV?			e?	7	7,22-	, i * *	2*97	/°#V
I$lo	J		$. ,	7	7-2/	◄r	xff	/6So

Sampling:

Time of Sample Collectio ***m.***

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other:

Observations:

Weather/Temperature: *eCloih 33**

Sample Description: ***cl<-***

Free Product?	Yes	No ^	Descript.:
Sheen?	Yes	No A	Descript.:
Odor?	Yes	No A	Descript:

Comments:

ECOR Solutions, Inc.
Byron Barrel & Drum Site
Field Sampling Record Form

Site: Byron Barrel and Drum Date: /2-zf-*^

Job #:D1501.0Q2

Sample ID: /»\w2l~

Well ID: / w ^ O / Time onsite: Time Offeite:

Samplers: /?,L/*-*-*<- /jja /W>

Depth of Well (from top of casing) 37.^6 Time: /t//o

Static water level (from top of casing) 7>8f Time: / j j s

Purging Method:

Dedicated bladder pump, QED SamplePro MP-SP-4C

Field Tests:

Time	F!owrate(ml/mln)/ purge volume (mL)		Temp. °C	ORP mV	pH 3td. Units	TDS g/L	DO mg/L	Spec. Cond. mS/cm
13W	yo/*l/r.*j		8*	/o	7.3^	/ , /	.*;??	/$76
/3VJ"			8-Y	13	7.27	/ . /	3 - «	tSCl
/J-r°			tf<	M	7**	M	3.?°	l$£o
rjsr			m	K	7."	/ /	3'2?	/SS7
Woo			8.1	n	7/'	A>	J.JV	/Sso
ft/oS	s	'	n	2*	7.pf	IJ	3*X>	'i**n

Sampling:

Time of Sample Collectio_ *lHof*

Collection Method:	*Analyses:*	*Analytical Method:*
X Dedicated pump	X VOCs	8260 X 503 Other

Observations:

Weather/Temperature: *ct*^{9}^ *1^*

Sample Description: £/*"- _ _ _ _

Free Product?	Yes	**No *S**	Descript.
Sheen?	Yes	No *s*|	Descript.
Odor?	Yes	**No <*<**	Descript.:

Comments:

*#„/ cyo _ v**

APPENDIX B
Data Validation Report

Project Byron Barrel and Drum Site
Laboratory: Test America
Sample Delivery Group: A07-E752/A07-E885
Fraction: Organic
Matrix: Aqueous
Report Date: 2/26/2008

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1. All analyses were performed by Test America.

The samples were analyzed for volatile organic compounds and total suspended solids. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report The data deliverables provided by the laboratory were New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B format.

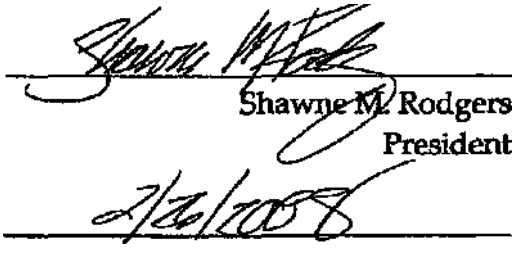
All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to Region II "Validating Volatile Organic Compounds by SW-846 Method 8260B", SOP HW-24, Revision 1, June 1999. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	»	Chain of Custody Documentation
X	•	Holding Times
X	>	Instrument Performance
X	»	Initial and Continuing Calibrations
X	»	Laboratory and Field Blank Analysis Results
X	»	Surrogate Compound Recoveries
X	«i	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	«•	Field Duplicate Analysis Results
X	«	Laboratory Control Sample Results
X	«»	Internal Standard Performance
X	.	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody documentation was complete.

3.0 HOLDING TIMES

The holding times were met for all analyses.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

Duplicate samples MW21-9-GW-24 and DUP-9-GW24 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. There were no positive results for the duplicate samples.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

13.0 QUANITTATION/REPORTING LIMITS

The samples presented below were analyzed at dilutions. The dilution analyses were performed because of the suspected presence of high levels of target compounds and/or interferences. Quantitation limits are elevated by the dilution factor for these samples for target compounds that were not detected. The elevated quantitation limits should be noted when assessing the data for these samples.

Sample	Dilution Factor
MW-10B/GW-24	10.0
DUP-9/GW-24	10.0
MW-21-9/GW-24	10.0
PW-l/GW-24	500
PW-2/GW-24	400

Sample MW-10B/GW-24 was re-analyzed at a 25-fold dilution for volatile organic compounds. The reanalysis was performed because the response for 1,1/1-trichloroethene exceeded the linear range of the GC/MS instrument for the initial analysis. The affected result was reported from the dilution analysis. All other results have been reported from the initial analysis.

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective quantitation limits (QLs)/ have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates H HA, and Iff, Jime 1997
Total Suspended Solids	Method 160.2, "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, and revisions

Table 1 Samples For Data Validation Review
Byron Barrel and Drum Site
Groundwater Samples Collected December 2007
Test America Sample Delivery Group A07-E752/A07E885

SAMPLE LD.	LABORATORY LD		DATE COLLECTED	MATRIX	ANALYSES PERFORMED VOC	TSS
Trip Blank	A7E752	06	12/19/2007	TRIP BLANK	X	
DUP9-GW-24	A7E752	05	12/19/2007	GROUNDWATER	X	
MW1-9-GW-24	A7E752	01	12/19/2007	GROUNDWATER	X	
MW10B-15-GW-24	A7E752	03	12/19/2007	GROUNDWATER	X	
MW21-9-GW-24	A7E752	04	12/19/2007	GROUNDWATER	X	
MW4-9-GW-24	A7E752	02	12/19/2007	GROUNDWATER	X	
PW1/GW-24	A7E885	01	12/21/2007	GROUNDWATER	X	X
PW2/GW-24	A7E885	02	12/21/2007	GROUNDWATER	X	X
Trip Blank	A7E885	03	12/21/2007	TRIP BLANK	X	

VOC: Volatile Organic Compounds
TSS: Total Suspended Solids

ECCR samncNS
B33R SOLUTIONS - BYRCN SHE
AQCOTJS ASP 2000/8260 - SELECT LIST - 8 CMKS
ANALYSIS mm SHEET

Client No.

IW-l/G^-24

Lab Name: ITestAmerica. Lalxiratories Inc. Ccntract:

•lab Codei" jjBCNY Case No.: _____ SAS No.: SD5 No.: 122107

Mat&ix: (soil/water) WKTER Lab.;Sanpie;Ip: -A7E8850J-V

Saji£le wt/vol: . 5.00 <g/niL) ML lab File ID: • . S9967.I&>

Level: (Icw/med) LOW Date Sairp/Recv:. 12/21/2007. iS&i'/^OOT^ '.

% jpfoistiniie: not dec. Heated Purge:; N Date Analyzed: XL2/27/20Q7: .

GC Colurna: ZB-624 ID: 0.18.. (rati) Dilution Eactoct 500.00;^> .:',';-. •• *I*

Soil Extract Volume:_____(uL) . . Soil Aliquot Volume: •-•• •'••?• •• . (uL) „ •;

CAS NO.	cayttOM?	cairanKATiGN UNITS: . (ug/L or ug/%) r U3/L	:Q
75-34-3-------l/l-Dic±icax)etiiane		2500 .	
75-35-4--^----i#i-Dichlorcethene .		... 25.00.' -•'	
156-59-2—-—cis-1,2-DichlcQXethehe .		2500 '	U,"."-:.•
75-09-2———Mathylene chloride		. . . 2500	tr-,
108-88-3.^-—--Toluene ' "	•'.*.' '. . .'V	2500.	•U::—:;.
71^-55-6-^----*l, x,* i-Tri.chlorc)enhaTTe	^ . .'•.•"'"	.; 250a	
79-01-6-.-~-r-Xrichlor6ethene	•,	• 2500	
75-01-4———--Vinyl chloride .		'.. 2500	

SMA 2/26/2008

ECDR SQLtJrrCNS
EOQR sa&cnaONS - BYRCN SHE
AQUEOCE ASP'2000/8260 - SELECT LrST-TAELE 5.
ANALYSIS DATA SHEET

Client. No.

TRIP HtANK

^Lab Name: TestAiriarHna Tahnratories Inc. Contract:

Lab Code: RBCNy Case No.: -. SAS No.: . SDG No.: 12^ipj7

Matrix: (soil/water) 'WATER Lab-SOTJE5le 03?:. "'"A7E75206:;

Sanple wt/vaL: . .. 5',bO (g/mL) ML - Lab Bile.-'m:" ... .; S99J6VRR: ^:- '-:-. ',

.Level: ' (Ittw/med)' . J0? • • Bate Sanj$Recv:;.' i2/19/20Q7.-;i2/l9/2007

% tfoisture: hot'dec. ':' \ . Heated Purge: N Date;. Analyze<i: 12/26/2007

GC Column: ZB-624 '. . ' 3D:. 0.18 (ran]" Dilution.Factor:' • '• 1.00 '-

Soil'Extract Volume: . '•„ -• • (uL) Soil AliquotVcflurre: - -\' N. •'••••(uli) ;

CAS NO.'	CCMPCOND	Cn^CINTRATICW^uitnSr. '• ;•• (ug/L,or ug/Kfcr)-. -. U3/L !• • . , Q ;'	
75-34-3———-^.-ia-Dichl6roethane.		5 . •, •	u
75-35-4—-—:-'-!, 1-Didhl'arbethene		E"'- • *"."."5-. •'/;.'	U:
75-09-2---rf--Methylene chloride		.'"••;.• ' .5 ; ; - ' "	u
108-88-3-rr^T--Toluene*i*...		:'•'•' -.;,-5-- *	xj. ,.
71-55^6--r----lvl,l-Trichloroethane/			XT
79^01-6-------Trichlca^oethene'.		*>•':. ->V-5 •.' ..	tj. - .
75-01-4rr'-^-r-Vinyl chloride;	.0"'V.'	'-'- .•'.-, 5*'	U *
71-43-2--^-———Benzene ...	-	.- "' V •-••5, ••– "•	u.
1330-20-7—^r-Total Xylenes- •."... • •>		•'• -•>'•' 15 -	u. •
108-90-7-^----Cfclarabenzehe .			u
79-00-5-.——^-l,l,2^Tric^an>5thane		'5 - . •	U; '
107-06-2———--l-^-Dichloroethahe		""- 5" •'	u
127-18-4.---n--Tet^^chlcrbethene •, •'. .			u\
67-66-3---^-T-^c^aroform... .	...-..*	'-'.'• .•,,;-'5' v	u
75-27-4—T-.-^Brcfriodicihlcaxmethane. ""		• • '-'5"V-.' -.-	
124-48-l-T--.--DiJb(rcnDchIcirc^ .'		•'-'•• -5:"' ,"	u
7Br93-3^---.f--2-ButanonB.-.i---.	•.".	• -io';.'-'	U :
.Sfi-^-F-——QsT+m TPtrarhlnride			U ..-•
95-5p-lr---^.---i,2-mchlcrdben2ene" ..		' \ r 5-	u
106-46-7,------l#4-Dichlciircbehzene .		\ "'; . 5 '•'	u ,

Wet Chemistry .Analysis

Client Sample No.

EW-2/GW-24

Lab Name: Testfimerica Laboratories Inc. Contract:

Lab Code: REQJY Case No.: _____ SAS No.: SDGNo.: 122107

Matrix (soil/vater): HA3ER Lab Sample ID: A7E88502

% Solids: o.o Eate Samp/Recv: 12/21/2007 12/21/2007

Barameter Name	Units of Measure	Result	C	Q	M	Jfetbod Number	Analyzed Cate
Total Suspended Solids	M3/L	462				160.2	12/27/2007

Comments:

BOOR SQLtinCNS
HCCR SaUUTtCNS ^ EKHCN SHE
AQUEOUS ASP 2000/8260 - flRTBCJ. LIST-TOBLE 5
ANALYSIS DA3& SHEET

Client No.

MH-21-9/GftT-24 "

Lab Mama; IteistArtierica Labctratdries Inc. Gantract:

Lab Cbde: KBCNY • . Case.:Kp.; _____ SAS No.: SDGNb.: 122107

Matrix: (soil/water) «a5ER Lab SattjDle ID: . A7E752Q4 .

Sample -vt/vgl: ,• 5.00 (g/friL) MD Labile. ID: " , S994J:RR^ v* ' .

-Lev^li (low/ttied). ' LCW. Date-S^rtp/Recy": :" 12/19/2007 12/19/2607/

% Moisture:'riot *dec.*- •'. - Heated Purge: N Date Analyzed: 12/27/2007v ^

GC 0>lumn: ZB-624. ' . ilD: ,0.18 (im) Diluticd Racfcdr: .,. 10.00 • -"'v. .

Soil Extract Voiums: V ⬊ (uL)

CAS NO.	CtWPOUNb	cxaKEHsyarcw^ UNITS:.; (ug/L qr ug/fe). I3G/L	...0
75-34-3	---.-r--l,l-I)icMdn^thane	-. so-.;	U .
75-35-4	-------l,l-mchldrcethene	> s o • ...-:	tr .
75-Q9-2	------r?feth7lene chlcadde.	;.'". 50 : ...	u
108^88-3	—-—Toluene - .	. 50 .	
71^-55-6	——--lil^l-Trichloroethane : :. ,.\. •	. . .50	
79-01r6.^r	---^-TricMc)rDethene	'..,50:	u'-'V
75-01rr4r	—-.-rVlnyl chloride ..v.'"	• •-'•• 50'-.	u
71-43-2	———Benzene .	....:."/:• 50	t3[. •
1330-20-7	—r-^Ibtal Xylenes	v"".".-150- ;•; • -	U ' :
108-90*7	—----Chlorobenzene	.V 50- '	a-.'' :
79-00-5	-—---1,1,2-Trichloroethane •	. 50 •	u.'.
107-06-2	------l,2-Ddciilorcethane	50 .	u
127^18r4	---"-TetracMoroethene	•50- <	TJ.:. •
67-66-3	------—-CMarofarm		U "•:•-.
75-27r4-r	^-'-^fBiOTbcUdhlorcimetAarie -. :	;-•" -.;-v-S0."^ '•'	U- ⬊- V
124-48-V	---7-Dibrare>c^ /•	•:" 50> •-–	U .
78-93-3	^--e-~--2-Butancine - .":..- -.•*'.		
56-23-5	--~---?Carbcn.ltetracihlari(fe. '."'.'.'.'	•v'ibo.'■'-	u ;• •
95-50-1	-^———rl,2-I&chlorcbeiizene		
106-46-7	^.-^-.TTl,4-Di(±acrdbenzene	•/•' "s o ;•. •" '••-'••50 • .- ••	u U-

smm 8/26/2008

Km i - *Gc/m* vc&

ECCR SQLtmCKS - BXRCW SHE
AQUEOUS ASP 2000/8260 - SKTiFCT LIST - 8 .GMEDS
ANALYSIS DKEA SHEET

Client No.

TRIPELANK

iab Name: IfestArterica laboratories Inc. Contract;

tab Code: KBCNY Case No.:' '• .' , . SAS. No.: SDGNO.: 122107

Matrix: (soil/water) WRIER. Lab Saitple ED: .A7E885Q3.U

Saniple wt/vol:. 5.00 (g/iriLj ML lab Slle ID: S3946.KR

^=vel; (low/rfed) JEW Date Sarqpvtev: 12/21/200712/21/2007

% Moisture: not dec. ••'"• .. Heated Purge: N Date. AnaLyzedV • 12/27^007

GC ddlumn: 2B^624 • ' ; ID: -J(L4S fara) '" Dilution Factor: •V'—;l-.-p'0-.—' •

Soii Extract Vclurre: ' ^ - _ (uL) ' Soil Aliquot Volume: -• >.'/: ;'•- (UL) '"

' CAS NO..	CCMPOUNb-	CnjKENjRATTCN UNITS: .,:'= (vg/L or vg/R9) ;" • WCr_^.,	
75-34-3---^--^l,l-Dichloroethane, "	. . • : / •		u
75-35^4--^^r-l#l-Dichlorpethene.-,.			U;:
156-59^2----rrcds-l;2.-lHchloroetiiene	"-,•'.-	. •:' s ' ;	U >'.
75-09-2---r^r-fcfet±iylerie.; chloride		• w - -s-\	u;-: ••
108-88~3-'—--Toluene••'.		•'-•-,'o\ 5 v" ' : : •	U'v'
71-55-6--^--rri;iA-Trichlaraethane. .			u- •
79r-01-6r.--:-•—Trichlcircetaiene ,		• ' •A' --i. .	
75-01-4—^.--rVir^l chloride .	••;./•	•v.. ".v *-5'.'-,:\."	u-;: *v:

FORM' I - GC/MS VGA

BCOR sonunaNs
EC3CR SCSUIUCNS – BXRCK SHE
AQUEOUS ASP 2000/8260 - SELECT LIST-TftBLE 5
ANALYSIS DMA. SHEET

'Client No.

MW-lOB-9/G5i-24 • <

Lab Name: Ttestfimerica Laboratories Inc. • Ctantraqt

Lab Code: KBCNY Case No.:_____'_ SAS. Nc

Jfetrix: (soil/wpiter) WRIER

lab Sample' ID: A7fi7520y-. •;>'> "•

Sanple wt/yol: : •. .5.00 (g/niL);..ML

Lab File-ID: .3996^^--^ •j'^-l;- . \:i

Level: (lcw/med> " LCW .

Date' S^/Recv: 12/1972007-l2^L9/2b67-;.

% Moisture: not dec. • Heated Purge.: N

Date Analyzed:.' 12/27/2Q07".< :v V .;;;;':

GO Cbluraa: ^-624 .: ID: .0.18 (nrii)

Dilution Factor: •- 10.00'::. '.":'•-/"..J

Soil Extract Volume: **•to"-:**

Soil AHqubt Volume: **to**

CAS NO.	*CCMBOMX*	OM3INlRA3TCN;^ (ug/L cr; ug/K£)	UG/L	**.m**
75-34-3—	_„__!- i-Dichlprbethane		64	
75-35-4-:-—	•r-1,1-Dichlarpethene_		50	
75^09-a—	—Ifethylene ;c^oride_		50	U:
108-88-3-	--.-loluene		50	
73,-55-6—	---1,1, l~Trichlcrrethane_		17U0.	e-
79-01^6^	- r -Irichlcroethene . , .		**so-**	*u-:*
75r-6i-4~	--•-Vinyl chloride. •		**sd**	u-
71-43-2—	—-Benzene:		50	u.
1330-20-7—	---Ibtal ^lenes_		150	
108^90-7---	'-- -C^orbbenzene"		- 50	**t#**
79-00^5—	--1,1,2-Trichlproethane^		50 >	u
1Q7-66-2-	—1,2-DJtihlaroethane		50	u
127^18-4-	--letrachlbrqethene		50	*u<*
67-66-3—	•-Chlorbform		50.	u.
75^27^4™	- —Bromjc^c^oratfetJTane.		50	tx
124-48-1^	--DihrcmDc^crcTOthaTie"		: 50	u
78-93-3-—	--2-Butanone.-; .. .		ltio	uv
56-23-5^—	^^arbori' ^tracihloride.		50	u
95-50-1—	•-1/2-pichlcrpbenzene r		50	XI
106-46-7—	--~-^1,4-Dic&lorQbenzene		50	tj;'

cf^OPR W, 4l\tfcx^

BOOR SOLUTICNS r BXKCN SHE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMHDS
ANALYSIS DR2A SHEET

Client No*.

PW-2/GW-24

Lab Nams: TtestAmsrica Laboratories Inc. Contract:

Lab Cede: JRBCSir. Case No.: ^______________SAS ND,: SDG Kb.: 122107

Ifetrix: (soli/water) miER. Lab Sairple ID:. A7E88502f '

Sarrple wfc/vol:. 5.00 (g/nL) ML. .- Lab File ID: -S994;7.RR .-

Level: , (low/med) ICW pate Sarrp/Recvi • W21/20bf^272J/2o6i^

V>bi^vice:'iiot dec. £________Efeated Purge:[1] N Date Analysed: ? 12/27/2007'• —

QC Collinirt.: ZB-624V. • .'ID: 0.18 (tmnj DigutioiiFactor: . 4o6:Ob /'./.'.-

Soil Extract.Volume- :^- - (uL) Soii Aliquot;Volume: •. ^- - - -.(uL).-• -* A

CAS NOV	CCMPOUND	OCH^tHEKriCW tHTTS:' ! (ug/L or. ug/K&) : - <LT3£ - '	...Q
75r34-^-----	rl,l-Dicihl6rbethane :' - . .-..'•'	' V-200(3	u'•';•' uv*•
75-35-4T------	l^I^r^chldroetijene..." .;;..-•"•;	• ,,"'< 2000.. .	u
156T59r2--V--	cis-l,2-Dichlbrcetheiie ;•-.••..	.••2000,;.	
75-09-2---^----	Methylene chloride .•.	;. '2'6oq - , y	U '
•108-88-3---—	Toluene..	'." -.200(3.	tr
71-55-6--^^-	Tia/l-Trichlcacoeaiane ;•,.:,:	" -2btfo	U:.";
79-01-6^------	Trichlozoethehe ... . ,%*:	• •'. 200.0: ".	U
75-01-4-—.--r	Vinyl chloride. . .:.	• r [1]2odb;,	0 '

•MS 9

ECOR SOLUTIONS
BOOR SOLUTIONS - BXRON S H E
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA. SHEET -

Client No.

DUP-9/GW-24

Lab Name: Testftrrerica Laboratories Inc. Contract:

Lab Code: RECNY Case No.:_____ SAS Nb> : SDG No.: 122107

Matrix: (soil/nyater) WATER Lab Sample ID: A7B75205

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: S9942,KR .

Level: (lcw/med) LOW Date Sanp/Recv: 12/19/2007 12/19/2007-

% Moisture: not dec. • Heated Purge: N Date Analyzed: 12/27/2007

GC Column: ZB-624 ID: 0.J8 (itm) Dilution Factor: 10.00'

Soil Extract Volume: _^_____(uL) Soil Aliquot Volume: ^_L_^_ (UL)

CAS NO.	COMPOUND	OaiCairRfiTICN UNITS: (ug/L or iig/K&) : UG/L	
75-34-3	1,1-Dicihloroethane	50	U
75-35-4	1, l-Dichlciroethene_	50	0
75r09-2	—Methylene chloride"	50	U
108-88-3-	—Toluene	50	U
71-55-6	—1,1, l-Trichloroethane_	50	U
79-01-6	•-Trichlcox)ethene_.	50	U
75-01-4	-Vinyl chloride_____	50	U
71-43-2	•-Benzene	50	U
1330-20-7	Total Xylenes^	150	U
108-90-7-	Ctdorobenzene	50	U
79-00-5	--l,l,2-Tricihlorcethane_	50	U
107-06-2-	--1,2 -Dichloroethane	50	U
127-18-4-	•^Tet^achloroethene	50-	U
67-66-3	•-Chloroform	50	U
75-27-4	Brairx^chlcaxniethane_	50	U
124-48-1	-Dibrcmacnlorcmsthanej]	50	U
78-93-3	-2-Butanone	100	U
56-23-5	-Carbon. Tetrachloride,	50	U
95-50-1	-1,2-Dichlorobenzene_J	.50	U
106-46-7	--l,4-Di(±lorobenzerie	50	U

4»

EOCR sauncws - BXRCN SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-2ABLE 5
ANALYSIS DATA. SHEET

Client No.

MKf-4-?/<3?-24 .

Lab Narre: 'Testftnerica laboratories Inc. Oontxact:

Lab Oode: 3^OT£ Case. No.:________________SASNo.: SEGNO".: '122167

Matrix: (soil/water) WftlER Lab SaripLe ID: : A7E75202

Sarrple wt/yol: ' . -5.00- (g/rtitL.) ML Lab" File ID.:;'/' S991^^RR.;:.•::.•" •

Lsvel: (low/ired) .'-IQr • Bite Sarrp/Recv: 12/19/^007; j(2/isi/2007

& Moisture: riot-dec; ___^__ Seated Purge: N Date Analyzed: 12/26/2007

GC Column: i^-624 . • V 3D: 0:18 (ntn) pniAicn:KK*fe. /•. :i.o6' .'.,;.

Soil Extract ^folume: „________(uL) . Soil Aliquot VbluriBfj iii_,_^J' J?iO

CSS NO. •	OMPOUND	O^DEN^EATICW -UNITS i , ,/ or.uq/l^) 'WL.	•"••Q-
75-34-3	——-1,i-mchloroethane .	:•• .5 '	
75-35-4-7	-----l/l-I^cMc^thene.		.XJ.--.;.-'•••
75-09-2	—^—.^Pfeth/lene chloride	Y •:$'":./.	
lG8-88-3	-:--y--Toluerie ... • • ;.\ .,	- '&-.	
7lT55r;6	------^l^l,l-lrichlaroethane .-,/.-,	•-.'• '-' 16 . :-•;"	
79-01-6	---^--TrichldDoetiiere ..	• • • •" • 'i'V-.v '•"	
75-01^4	—----oVinyl chloride	\ '-.-.V7 5 - .	
71-43^2	-^----Benzerie. *•		u.' •
1330-20-7	—^-Ibtal Xylenes -	< "•>' 15';. "-. •	
108-S0-7-T	----Chloroben2ene . .,'.".	- •-'•'':' 5.- •	u
79-00-5	------rl#l,2-Tri"c^arxethane	•: 5-;.	tx-'v •
107-06-2T	----rlv2-Dicihlcax)ethane	•. -:5.-	u •
127-18-4	-—-^Tetp^dhldrcethene	•:•":.; 5i\\'	U/-
67-66^3	->:-~-^-CKLoroforrti	"-..-:..""''•-. 5 - ' r	xf;
75^27-4	-—-^-Bronodichlgroiriethane		IT---'
124r48-l^	-—-DibixxrDc±a^		U
78-93-3r	----r-^27Butancoa. .	:" -"-r vibvr... •	
56-23-K	--r----OTbnn T^rachloride	• •• V j-;5--"".	XT'
95-50rl	---;----1^2-lUchlorobenzene .	'; '/•••• : 5	XJi
106-46-7T	-7---l>4-Dichlaccbeiizene		XI'. '
	• 1		

KEM I - GC/M3 VC&

SJM 2/26/2008

ECCR SQUinQNS
ECOR SOLUriCNS - B1ERCN SITE
AQUEOUS ASP 2000/8260 - SELECT LIST - 8 CMEDS
ANALYSIS DATA SHEET

Client No.

PW-2/GW-24

lab Name: TestAroerica Laboratories Inc. Contract:

Lab Code: KECMY Case No.:_____ SAS No.; _____ SDGNb.: 122107

Matrix: {soil/water) WRIER Lab" Sample ID: A7E88502

Sample wt/vol: 5.00 (g/mL) J4L . lab File ID: S9947^ER

Level: (low/med) LCW Date Sairp/Eecv: 12/21/2007 12/21/2007

% Moisture: not dec._____ Heated Purge: N Date Analyzed: 12/27/2007

GC Column: ZB-624 3D: 0.18 (mm) Dilution Factor: 400.00

Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO. CCMPOCKD	(XJKEKrrRATICN UNITS: (ug/L or ug/K£) • US/L	Q
75-34-3————1,1-Dichlorcethane	2000	U
75-35-4-----r-l/l-Dichloroethene	2000	u
156-59-2————cis-l^-rttcMoroethene -	2000	u
75-09-2————Methylene chloride .	2000	u
108^88-3 ^-——--Toluene .	2000	u
71-55-6————-1,1,1-Tricblorcetbane •	2000	u
79-01-6—.———Iridhloroethene .	2000	u
75-01-4———^—Vinyl chloride	2000	u

SMN 12/26/2007

WTR satuncNS - EKRCN SITE

^ ^ MKLYSIS EBOA SHEET

Client No.

jW-l-9/GJHr2[4] :

Hb Name: ^ t m f f i ^ I ^ ^ o ^ e ^ c , Contract:

L a b d o d e : ^ ^ Case No.: SftS No-: SDGNo.: 1221Q7

Matrix: (soil/vater) W^ labSarnplelD: $SE?p£4"

s^e «t/voi: ' .^.^CgMtf • ^bFiieXD: S^ilALi

Level: (low/tried) £OT Ifete Sanip/Recv; l2/19/20ti7;';!t&/l6/26o7

* itoiBt^e: n* <fec. _ ^ _ He****** N pate Analysed; * 12/26/2007 'fe' ;'*'" ":

GC OD^sSfcS*^ *>: J±M\^ , Dilution Factor: ••-; 2.00 v:"v .;'.

Soil Extiact Volume.:- — - _ (uty ' Soil Micjyot Volume': .' ;.-v«.- ;';• (uL}./ '"

CQNCENTRZ/^CN UTETS: ' *., •••.

CAS H). CCMEOB0	(ug/L prug/sag) • -AG/!*.' .;.";--;-Q>.;.'. -	
75-34-3——^-^i;i-bichl6roathaine-'	10 -	
75-35-4p——rlA-Dichlorqethaie	• * - • - 2 •;••	
75T09-2—^—Methylene chloride . • r ;	• - UK	
108T88-3-.—.--toluene., ; <...-.	id"-;..	
71-55-6----:---l;:ia-Tr4chlordethane	-.200	
79-01-6—r<- --^Tidchloroethene	•'2- ',?	
75-01-4——rVinvl chloride	.10 -	v}--
71'43-2-r—-—Benzene .-•:.•-..,..;.	id	u .";
1330-20-7——^Total .Xylenes \	.3b =.	u> '
108-90-7—---aiorobsnzene .•	10;	U-L'"-:!
79-00T5-^--T--l,l;2-T^dWoroethane...	', 10 '	a'-
107-06^2----^-l,2-Dichloroethane	• 10.•- i;	
127-18-4T----rltetrachlarc«t^hene. - .	.- ' IO:	
67-66-3^.---r^-CMoroform	•• 10; . .	u '-,•••
7S-27-4-------Bratcdichlcaxictetiiaiie .	• "•;• • I O V	
124-48-1—;.-'•—JliJDrc«Dc±ilCHxrnetnane		XJ : ~
78-93-3-"--T--2-Butariane "•• ;.	io'·"! .	
56-23-5—-—Carbon Tetradxlpride	"•"-* • i-'20 ;' ••:	u;V.\"
95-50-1-——T-l'*2-Dichldrobenzene	• i o "•"• '	
,106-46^7-—r--l,4-Mc^6rcibenzene -•'.'..'	' "10 *• •: ,	0 .:"•'•.

KBM I - (3C/MS VGA

BOOR SGUJTICNS - BYRCN SITE
AQUEOUS ASP 2000/8260 - SELECT LIST-TABLE 5
ANALYSIS DATA SHEET

Client No.

WJ-10B-9/CW-24

Lab Name: T ^ m m ^ J ^ ^ ^ ^ ^ ^ J m ^ Contract: ^

Lab Gpde: RBCNY • Case No. SAS-Nq. SDQNO.: 122107

Matrix: (.soil/w^er);^^

Sattpie y);/vol: ,-SM (g/W Vi _ Lab^FiieiP: \ ' ^ ^ ^ : ^ ' \^;:'.

l&xa: (low/med) -JtjSfl " ' Date. Sa^p/^cv:' ^ | ^ : p | ^ ^

% Moisture:, n* dec. __ Bsated Purge: N ". ISB*# j^M**- -MI^^;' ^ ; ^ ;

GG Column: m-G2A,:. ID: _P^i§ &m>_ - ' TJilutiqi Factor:'..; v^gO/v-V^' y i,

Soil Extract Volunei .', ' • W • ^l;A$lqagt Vblyne: Zlli,^ -^ -;;! \'

CXNGENTEfflITCN U^TS:... :; ' ;.
v(ug/L or ug/Efci).' ; . JS&U --...I'-V. '' ;

CAS NO. COMPOUND '..		
75T34f3---r^->lil-Dic^6roethanfi .	• -,64....	DJ," "
75-35T4---r7--I/i^Dichloctx>etherie.	• -120 '	u>./
75-09-2--——-Ifethylehe chloride	.-•-•• 31/ ^"'-;.	
108-88-3-—^—Toluene. ,-. * • ;v •	' .120-. <-':...	U V-
71f55-6~--r--'l>1,1-Trichlbroetharie,*	. .1306 •	
79,-01-6--^^-^-Tdd.dhlai^y^srie . ..;.?" •..,".".	,"';.: ,120; •'•' ":-<	U '
75.^01-4-.———Vinyl- chloride. . . . . . :.\ .•	'. '120'.'-. •	
71-:43-2"--r-.-Berazene-. ;•- . ;•=.-•	.•.'.'120".'"-	tr.
1330-20-7—--Total Xylenes.-. . • • v. ; •".''. •:: ~ .'	. 38(f .	u
108-90-7---^-^C^ozobenzene' ' ..;.'..	- ."'• 120'• .;;;'" '•'	
79-00-5---.--r-l,l,2-TrichIar6sthai]e .	•I - 120 ''	
107T06-2------l;2-I)ic^coroethane .	120	
127rl8T4------Tetrachloxosthene	..-'.•••.•.'• i20 -. "\: '	
67-66-3------.<hlcroform "J •.;••:.-"	•". •'£** 120. •-'	^ ; -
75-27-4-r-.r^--.rBi^no(^dhloroniethane	; -: 120.	
124^48-l-rr-rrDito?OTtDdilcaa^ : '" . -:"'> .'"'" - '!	• •!•• - i20 - ••	u,
78-93-3----T--2-Butanone "- , .••."•'	.-: >;250 — •	U, .. • :•
56-23^^---rV--<^iixn Tetrachloride , '-•«/.""	•••;-'.'-.-120., ' -•	U ' '
95-50-rl™!--"-!-!, 2-Didilorcbenzene.	: 120 ; "	Us.."-'
106r-46-7-----vl>4-rjicihlcaxa>em2ene . ?	'^';'--U O20v.'– 1	u- -

4 Rep

P3FM I " O^A© "VGR

EMA 2/6/2002

APPENDIX C
Mann-Kendall Statistical Analysis of Select Wells

Appendix C
Mann-Kendall Statistical Test - HW-1
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin — **Mann-Kendall Statistical Test**
Department of Natural Resources — **Form 4400-215 (5/2000)**
Remediation and Redevelopment Program

Notice: This form Is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both Increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend Is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional Information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the auidance for recommendations on data entry for non-detect values.

Site Name =	Byron Barrel & Drum	Bvron Township	New York	BRRTS No. =		Well Number =	MW-1
	Compound	110CA	11DCE	MEC	IIITCA	TCE	TVOCs
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data}	Concentration (leave blank if no data)
1	13-Seo-OS	14.00	16.00	5.00	410.00	5.00	442.00
2	20-Dec-05	5.00	24.00	5.00	580.00	5.00	609.00
3	26-Mar-Q6	29.00	24.00	5.00	540.00	5.00	597.00
4	22-Jun-06	7.00	9.00	5.00	220.00	5.00	238.00
S	I4-SeD-06	5.00	6.00	5.00	19D.00	5.00	203.00
6	7-Dec-06	6.00	9.00	5.00	170.00	5.00	187.00
7	22-Mar-07	2.00	4.00	5.00	100.00	5.00	108.00
e	14-Jun-07	6.00	3.00	5.00	200.00	5.00	211.00
9	12-Seo-07	7.00	3.00	5,00	200.00	5.00	210.00
10	19-Dec-O?	10.00	2.00	5.00	200.00	5.00	214.00
	S =	-2	-36	0	-20	0	-19
	n =	10	10	10	10	10	10
	Average =	9.1	10	5	281	S	301.9
	Standard Deviation =	7.69487S64	8.459051694	0	166.629996	0	179.5429073
	Coefficient of VariationfCV)=	0.84559073	0.845905169	0	0.S92989309	0	0.594709862
Increasinq Trend f80% Confidence)		NO	NO	NO	NO	NO	NO
Decreasing Trend (80% Confidence)		NO	YES	NO	YES	NO	YE5
Undetermined Stable Trend, CV<=1		YES	NO	YES	NO	YES	NO
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	NO	NO
Error Check. OK if Blank							
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	YES	YES	YES
1	Data Entry By = KBR		Date =	13-Mar-08	Checked By =		

Appendix C
Mann-Kendall Statistical Test - MW-4
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (5/2000)**

Remediation and Redevelopment Program

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code, Use this form or a manual method to calculate the Mann-Kendall statistic, as specified In Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code,

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both Increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et al, 1999. For additional information, refer to guidance In Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the quldance for recommendations on data entry for non-detect values.

Site Name =	Bvron Barrel & Drum	Bvron Township	New York	BRRTS No. =		Welt Number =	MW-4
	Compound	UDCA	11DCE	MEC	U1TCA	TCE	TVOCS
Event Number	Sampling Date (most recent last)	Concentration (leave blank If no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank If no data)
1	13-Sen-OS	5.00	5.00	5.00	11.00	2.00	13.00
2	20-Dec-0S	5.00	5.00	5.00	48.00	1.00	52.00
3	26-Mar-06	5.00	5.00	5.00	8.00	1.00	8.00
4	22-Jun-06	5.00	5.00	5.00	9.00	1.00	9.00
5	14-Sep-06	5.00	5.00	5.00	13.00	2.00	15.00
6	7-Dec-06	5.00	5.00	5.00	6.00	1.00	6.00
7	22-Mar-07	5.00	5.00	5.00	10.00	1.00	11.00
8	14-Jun-07	5.00	5.00	5.00	10.00	1.00	11.00
9	12-Seo-07	5.00	5.00	5.00	14.00	2.00	16.00
10	19-Dec-07	5.00	5.00	5.00	15.00	1.00	17,00
	S =	0	0	0	8	-3	*a*
	n =	10	10	10	10	10	10
	Average =	5	5	5	14.5	1.3	15.8
	Standard Deviation =	0	0	0	12.13122692	0.483045892	13.20605922
	Coefficient of Variation(CV)=	0	0	0	0.83663634	0.371573763	0.835826533
Increasinq Trend (80% Confidence)		NO	NO	NO	NO	NO	NO
Decreasinq Trend (80% Confidence)		NO	NO	NO	NO	NO	NO
Undetermined Stable Trend, CV<=1		YES	YES	YES	YES	YES	YES
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	NO	NO
Error Check. OK if Blank							
Stable or Decreasing Trend at 80% Confidence Level		YE5	YES	YES	YES	YES	YES
1	Data Entrv Bv = KBR		Date =	13-Mar-08	Checked By =		

byron_MK_stats

Appendix C
Mann-Kendall Statistical Test - MW-10B
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (5/2000)**

Remediation and Redevelopment Program

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an Increasing or decreasing trend Is not present, use an additional coefficient of variation test Is used for stable and non-stable conditions as proposed by Wledemeier et al, 1999. For additional Information, refer to guidance In Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the aurdance for recommendations on data entry for non-detect values.

Site Name =	Bvron Barrel S Drum	Bvron Township	New York	BRRTS No. =		Well Number =	MW-10B
	Compound	11DCA Concentration (leave blank	11DCE Concentration (leave blank	MEC Concentration (leave blank	IIITCA Concentration (leave blank	TCE Concentration (leave blank	TVOCs Concentration (leave blank
Event Number	Sampling Date (most recent last)	If no data)	if no data)	If no data)	If no data)	if no data)	if no data!
1	24-Sep-03	5.00	5.00	5.00	7.00	5.00	7.00
2	30-Mar-04	S.OO	5.00	5.00	17.00	5.00	17.00
3	14-5ep-04	5.00	5.00	5,00	14.00	5.00	14.00
4	22-Mar-OS	5.00	5.00	5.00	11.00	S.OO	11.00
5	13-Sep-05	5.00	5.00	5.00	5.00	5.00	5.00
6	25-Mar-06	S.OO	5.00	5.00	6.00	5.00	6.00
7	14-Sep-06	5.00	5.00	5.00	6.00	5.00	6.00
8	22-Mar-07	5.00	5.00	5.00	6.00	5.00	6.00
9	12-5ep-07	5.00	5.00	5.00	1.00	5.00	1.00
10	19-Dec-07	64.00	S.OO	5.00	1.300.00	S.OO	1.395.00
	S =	9	0	0	-12	0	-12
	n =	10	10	10	10	10	10
	Average =	10.9	5	5	137.3	5	146.8
	Standard Deviation =	18.65743819	0	0	408.557911	0	438.5977149
	Coefficient of Variation (CV)=	1.711691578	0	0	2.975658493	0	2-987722854
Increasinq Trend (80% Confidence)		NO	NO	NO	NO	NO	NO
Decreasinq Trend (80% Confidence)		NO	NO	NO	YES	NO	YES
Undetermined Stable Trend, CV<=1		NO	YES	YES	NO	YES	NO
Undetermined Non-Stable Trendy CV>1		**YES**	NO	NO	NO	NO	NO
Error Check. OK if Blank							
Stable or Decreasing Trend at 80% Confidence Level		**NO**	YES	YES	YES	YES	YES
. 1	Data Entry By = KBR		Date=	13-Mar-08	Checked Bv =		

Appendix C
Mann-Kendall Statistical Test - PW-1
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (5/2000)**

Remediation and Redevelopment Program

Notice: This form is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an Increasing or decreasing trend is not present, use an additional coefficient of variation test Is used for stable and non-stable conditions as proposed by Wiedemeler et al, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the Guidance for recommendations on data entrv for non-detect values.

Site Name =	Bvron Barrel & Drum	Byron Township	New York	BRRTS No. =		Well Number =	PW-1
	Compound	UOCA	11DCE	cDCE	UITCA	TCE	TVOCs
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank If no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank If no data)
1	24~Sep-03	10.00	2.00	5.00	S9.00	1.00	72,00
2	30-Mar-04	3.00	0.90	5,00	73.00	0.50	77.40
3	14-Sep-04	9.00	2.00	5.00	140.00	2,00	153.00
4	22-Mar-OS	4.00	0.90	5,00	76.00	0.60	81.50
5	13-SeD-05	4.00	1.00	5.00	77.00	0.80	82.80
6	25-Mar-06	9.00	1.00	5.00	230.00	1.00	311.00
7	14-Sep-06	6.00	2.00	5.00	160.00	1.00	169.00
8	22-Mar-07	6.00	2.00	5.00	170.00	1.00	179.00
9	12-SeD-07	9.00	2.00	5.00	280.00	2.00	293.00
10	19-Dec-07	5.00	1.00	5.00	130.00	1.00	135.00
	S =	0	7	0	27	14	25
	n =	10	10	10	10	10	10
	Average =	6.5	1.48	5	139.5	1.09	155.37
	Standard Deviation =	2.549509757	0.549343042	0	73.19115004	0.513051871	86.97412195
	Coefficient of Varlation(CV) =	0.39223227	0.371177731	0	0.524667742	0.47068979	0.559787101
Increasinq Trend (80% Confidence)		NO	NO	NO	**VES**	**YES**	**YES**
Decreaslnq Trend (80% Confidence)		NO	NO	NO	NO	NO	NO
Undetermined Stable Trend, CV<=1		YES	YES	YES	NO	NO	NO
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	NO	NO
Error Check, OK if Blank							
Stable or Decreasing Trend at 80% Confidence Level		YES	YES	YES	NO	NO	NO

1 Data Entrv Bv = K8R. Date = 13-Mar-08 Checked Bv =

Appendix C
Mann-Kendall Statistical Test - PW-2
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (5/2000)**

Remediation and Redevelopment Program

Notice: This form Is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified In Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an increasing or decreasing trend is not present, use an additional coefficient of variation test is used for stable and non-stable conditions as proposed by Wiedemeier et a), 1999. For additional information, refer to guidance In Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	Bvron Barrel & Drum	Byron Township	New York	BRRT5 No. =		Well Number =	PW-2
	Compound	11DCA Concentration	11DCE Concentration	cDCE Concentration	111TCA Concentration	TCE Concentration	TVOCS Concentration
Event Number	Sampling Date (most recent last)	(leave blank if no data)	(leave blank If no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)	(leave blank if no data)
1	24-5ep-03	3.00	2.00	5.00	70.00	1,00	76.00
2	30-Mar-04	3.00	3.00	5.00	94.00	2.00	102.00
3	14-Sep-04	1.00	5.00	5.00	30.00	0.50	31.50
4	22-Mar-05	5.00	1.00	5.00	54.00	0.80	60.80
5	13-Seo-05	4.00	2.00	5.00	170.00	1.00	177.00
6	25-Mar-06	3.00	l.OO	5.00	92.00	1.00	97.00
7	14-Sep~06	9.00	3.00	5.00	230.00	2.00	244.00
8	22-Mar-07	8.00	4.00	5.00	90.00	1.00	103.00
9	12-Sep-07	8.00	2.00	5.00	270.00	1.00	280.00
10	19-Dec-07	5.00	1.00	5.00	140.00	1.00	146.00
	5 =	20	-6	0	19	5	23
	n =	10	10	10	10	10	10
	Average =	4.9	2.4	5	124	1.13	131.73
	Standard Deviation =	2.6436S0675	1.349897115	0	77.92874238	0.485455113	80.2357367
	Coefficient of Variatlon(CV) =	0.539520546	0.562457131	0	0.6284576	0.429606295	0.609092361
Increasing Trend (80% Confidence!		**YES**	NO	NO	**YES**	NO	YES
Decreasina Trend (80% Confidence)		NO	NO	NO	NO	NO	NO
Undetermined Stable Trend, CV< = 1		NO	YES	YES	NO	YES	NO
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	NO	NO
Error Check, OK if Blank							
Stable or Decreasing Trend at 80% Confidence Level		**NO**	YES	YES	**NO**	YES	**NO**
1	Data Entry By = KBR		Date=	13-Mar-08	Checked By =		

Appendix C
Mann-Kendall Statistical Test - PW-3
Byron Barrel Drum Site
Byron Township, NY

State of Wisconsin — **Mann-Kendall Statistical Test**

Department of Natural Resources — **Form 4400-215 (5/2000)**

Remediation and Redevelopment Program

Notice: This form Is provided to consultants as an optional tool to be used to provide groundwater contaminant data required to support site closure requests under s. Comm 46.07 or s. NR 746.07, Wis. Adm. Code. Use this form or a manual method to calculate the Mann-Kendall statistic, as specified in Appendix A of ch. Comm 46 and ch. NR 746, Wis. Adm. Code.

Instructions: To use the spreadsheet, provide at least four rounds and not more than 10 rounds of data. Use cells with yellow background for data entry. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at an 80% confidence level. If an Increasing or decreasing trend Is not present, use an additional coefficient of variation test Is used for stable and non-stable conditions as proposed by Wiedemeler et at, 1999. For additional information, refer to guidance in Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the quidance for recommendations on data entry for non-detect values.

Site Name = Byron Barrel S Drum | Byron Township | New York | BRRTS No. = | Well Number = PW-3

Event Number	Sampling Date (most recent lastl	11DCA Concentration (leave blank if no data)	11DCE Concentration (leave blank if no data)	cDCE Concentration (leave blank if no data)	IIITCA Concentration (leave blank if no data)	TCE Concentration (leave blank if no data)	TVOCS Concentration (leave blank if no data)
Compound							
1	7-Jun-OS	5.00	5.00	5.00	5.00	5.00	0.00
2	13-Seo-OS	5.00	5.00	5.00	1.00	5.00	1.00
3	19-Dec-05	5.00	5.00	5.00	1.00	5.00	1.00
4	26-Mar-06	5.00	5.00	5.00	1.00	5.00	1.00
5	22-)un-06	5.00	5.00	S.00	1.00	5.00	1.00
6	14-Sep-06	5.00	5.00	S.00	2.00	5,00	2.00
7	7-Dec-06	6.00	2.00	5.00	170.00	1.00	179.00
8	22-Mar-07	7.00	4.00	5.00	210.00	1.00	222.00
9	14-lun-07	9,00	3.00	5.00	260.00	5.00	272.00
10	12-Sep-07	4,00	1.00	5.00	130.00	5.00	145.00
	S =	12	-26	0	23	-8	33
	n =	10	10	10	10	10	10
	Average =	5.6	4	5	78.1	4.2	82.4
	Standard Deviation =	1.429840706	1.490711985	0	103.5679594	1.686548085	109.7696578
	Coefficient of Variation(CV}=	0.2S5328697	0.372677996	0	1.326094231	0.401559068	1.332156041
Increasing Trend (80% Confidence)		YES	NO	NO	YES	NO	YES
Decreasing Trend (80% Confidence)		NO	YES	NO	NO	NO	NO
Undetermined Stable Trend, CV<=1		NO	NO	YE5	NO	YES	NO
Undetermined Non-Stable Trend, CV>1		NO	NO	NO	NO	NO	NO
Error Check, OK if Blank							
Stable or Decreasing Trend at 80% Confidence Level		**NO**	YES	YES	**NO**	YES	NO
	Data Entry By = KBR		Date -	13-Mar-08	Checked By =		

APPENDIX D
ISRT Injection Log

Appendix D
XSRT Injection Log
Byron Barrel Drum

September 2007 Injection Log

	date	time	meter reading	gpm	
MW-10B	18-Sep	4:35 PM	2971	2.8	
		5:35 PM	3141	2.6	
		6:35 PM	3311	2.7	stopped for the night
	19-Sep	7:30 AM	3314	2.9	
		8:30 AM	3490	2.9	
		9:35 AM	3693	2.8	
		10:35 AM	3852	2.8	
		11:35 AM	4052	2.8	
		12:35 PM	4233	2.7	
		1:35 PM	4405	2.8	1st tote empty
		2:35 PM	4760	2.8	
		3:35 PM	4925	2.7	
		total gal =	**1954**		emulsion + water
PW-2	18-Sep	4:35 PM	103843	2	
		5:35 PM	103973	2.1	
		6:35 PM	1040S0	2.1	stopped for the night
	19-Sep	7:30 AM	104093	2.1	
		8:30 AM	104200	1.9	
		9:35 AM	104338	1.9	
		10:35 AM	104441	1.9	
		11:35 AM	104571	2	
		12:35 PM	104687	1.9	
		1:35 PM	104801	1.9	1st tote empty
		2:35 PM	104895	1.9	
		3:35 PM	105037	1.8	
		4:30 PM	105144	1.7	
		5:30 PM	105250	1.8	
		6:00 PM	105310	1.8	stopped for the night
	20-Sep	7:35 AM	105310	1.8	
		8:35 AM	105421	1.8	
		9:35 AM	105536	1.9	
		10:45 AM	105686	1.8	
		11:40 AM	105780	2	
		12:30 PM	105885	1.7	2nd tote empty, bega
		total gal =	2042		emulsion + water
		1:30 PM	106000	2.2	
		2:30 PM	106143	2.3	
		3:30 PM	106261		
		total gal water	261		
		total gal of emulsion and water		**2303**	
PW-1	19-Sep	poured 14 pails of NZ into well		560 lbs	70 gal
		poured 28 pails of water into well after adding NZ			140 gal
	19-Sep	4:30 PM	11824	4.1	
		5:30 PM	12065	3.6	
		6:00 PM	12179	3.6	stopped for the night
	20-Sep	poured 12 pails of NZ into well		480 lbs	60 gal
		poured 18 pails of water into well after adding NZ			90 gal
	20-Sep	8:25 AM	12179	1	
		9:25 AM	12247	1	
		10:45 AM	12373	1.3	
		11:40 AM	12460	2.1	
		12:30 PM	12571	1.5	2nd tote empty, began flushing with watei
		1:30 PM	12693	2.1	
		2:30 PM	12837	2.3	
		3:30 PM	12991		done
		water flush	298		
		gal of NZ from pails		130	
		gal of water flush from pails		230	
		total gal of emulsion and water		**1825**	

each pail weight = 40lbs (26 pails)
each tote weight = 2100lbs
total weight of emulsion = 5,240 lbs
total gals of emulsion = 654 gal

APPENDIX E
ISRT Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

These definitions are provided In the event the data in this report requires the use of one or more of the qualifiers, Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for. but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysts at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P*\
A	This flag indicates that a TIC Is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Ecor Solutions - Byron site
BYRON SITE - Aqueous
DISSOLVED SASES - ETHANE, ETHENE, AND HETHANE

Client ID Job No Lab ID Sanple Date		NW-1-9/GW-24 A07-E750 A7E75001 12/19/2007		HV-108-9/GW-24 A07-E750 A7E75002 12/19/2007		HW-4-9/GW-24 A07-E750 A7E75004 12/19/2007		PW-l/GU-24 A07-E880 A7E88001 12/21/2007	
Analyte	Units	sanple Value	Reporting Linit	Sample Value	Reporting Linit	Sample Value f !	Reporting Linit	Sample Value	Reporting Linit
Ethane	UG/L	NO	7.5	5.3	1.5	NO	1.5	ND	150
Ethene	UG/L	ND	7.5	8.7	1.5	ND	1.5	ND	150
Rethane	US/L	37	5.0	ND	1.0	ND	1.0	NO	100

Client ID Job No Lab ID Sanple Date		PW-2/GW-24 A07-E880 A7E88002 12/21/2007							
Analyte	units	Sanple value	Reporting Linit	Sample Value	Reporting Linit	Sanple Value	Reporting Linit	Sanple Value	Reporting Linit
Ethane	UG/L	ND	150	NA		NA		NA	
Ethene	UG/L	ND	150	NA		NA		NA	
Hethane	UG/L	ND	100	NA		NA		NA	

NA - Not Applicable ND = Not Detected

Ecor solutions - flyron site
BYRON SITE - AQUeOUS
DISSOLVED 6ASES - CARBON DIOXIDE ONLY(SUBCONTRACT)

Client ID Job No Lab ID Sanple Date		HW-1-9/SH-2A A07-E771 A7E77101 12/19/2007		HW-4-9/6W-24 A07-E771 A7E77102 12/19/2007		PW-1/GW-24 A07-E883 A7E88301 12/21/2007		PH-2/SW-24 A07-E8S3 A7E88302 12/21/2007	
Analyte	Units	sanple Value	Reporting Lin it	Sample Value	Reporting Limit	Sanple Value	Reporting Limit	Sample Value	Reporting Limit
Carbon Dioxide	UG/L	300000	50000	150000	50000	260000	50000	470000	50000

NA Not Applicable NP - Not Detected

Ecor Solutions - Byron site
BYRON SITE - Aqueous
SYROH - SW8463-6010 TOTAL FE,HN - W

Client ID Job No Lab 10 Sanple Date		MW-1-9/6W-Z4 A07-E7S0 A7E75001 12/19/2007		HH-4-9/GU-24 A07-E750 A7E75004 12/19/2007		PW-1/6U-24 A07-E880 A7E88001 12/21/2007		PW-2/GW-24 A07-E880 A7E88002 12/21/2007	
Analyte	Units	Sanple Value	Reporting Lin it	Sample Value	Reporting Limit	Sanple Value	Reporting Limit	Sanple value	Reporting Liolt
Iron - Total	HG/L	0.30	0.050	0.46	0.050	22.7	0.050	1.4	0.050
nanganese - Total	HG/L	0.10	0.0030	0.011	0.0030	3.4	0.0030	0.76	0.0030

NA = Not Applicable ND - Not Detected

Client ID Job No Lab ID Sanple Dste		HH-1-9/6W-Z4 A07-E750 A7E75001 12/19/2007		HU-4-9/6W-24 AO7-E750 A7E750O4 12/19/2007		PW-1/GW-24 A07-E880 A7E88001 12/21/2007		PV-2/GW-24 AO7-E880 A7E6S0O2 12/21/2007	
Analyte	Units	Sample Value	Reporting Limit	Sample value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Iron - Soluble	MG/L	0.097	0-050	ND	0.050	15.6	0.050	0.71	0.050
Manganese - Soluble	NG/L	0.078	0.0030	ND	0.0030	3.0	0.0030	0.80	0.0030

Ecor Solutions - Byron site
BYRON SITE - Aqueous
WET CHEMISTRY ANALYSIS

Client ID Job No Lab ID Sanple Date		MH-1-9/GU-24 A07-E750 A7E75001 12/19/2007		MW-10B-9/GW-24 A07-E750 A7E75002 12/19/2007		HW-21-9/6W-24 A07-E750 A7E75003 12/19/2007		HW-4-9/GW-24 A07-E750 A7E75004 12/19/2007	
Analyte	Units	Sanple Value	Reporting Linit	Sanple Value	Reporting Limit	Sanple Value	Reporting Linit	Sample Value	Reporting Linit
Biochemical Oxygen Demand	PIG/L	ND	2.0	NA		NA		ND	2.0
Chemical Oxygen Demand	**MG/L**	ND	10	NA		NA		29.8	10
Chloride	**MG/L**	5.0	2.5	NA		NA		4.6	2.5
Nitrate-Nitrite	**MG/L-N**	0.29	0.050	NA		NA		2.1	0.050
Sulfate	**MG/L**	59.4	10	NA		NA		29.3	5.0
Sulfide	**MG/L**	ND	1.0	NA		NA		ND	1.0
Total Kjeldahl Nitrogen	**MG/L-N**	ND	0.20	NA		NA		0.48	0.20
Total Organic carbon	**MG/L**	2.3	1.0	240	10	18.7	1.0	10	1.0
Total Phosphorous	**MG/L-P**	0.022	0.010	NA		NA		0.024	0.O10

Client ID Job No Lab ID Sample Date		PH-1/GW-24 A07-E880 A7E88001 12/21/2007		PW-2/GW-24 A07-E880 A7E88002 12/21/2007					
Analyte	Units	Sanple value	Reporting Linit	Samp Le Value	Reporting Linit	Sample Value	Reporting Linit	Sanple Value	Reporting Linit
Biochemical Oxygen Demand	**MG/L**	201000 E	2.0	16000 E	2.0	NA		NA	
Chenical Oxygen Demand	**MG/L**	151000	2000	79800	1000	NA		NA	
Chloride	**MG/L**	92.2	10	102	2.5	NA		NA	
Nitrate-Nitrite	**MG/L-N**	29.8	5.0	13.3	5.0	NA		NA	
Sulfate	**MG/L**	885	175	516	80.0	NA		NA	
Sulfide	**MG/L**	ND	4.0	ND	4.0	NA		NA	
Total Kjeldahl Nitrogen	**HG/L-N**	7.0	2.0	4.7	2.0	NA		NA	
Total Organic Carbon	**MS/L**	10200	200	21100	400	NA		NA	
Total Phosphorous	**MG/L-P**	0.37	0.010	0.39	0.010	NA		NA	

NA ° Not Applicable ND = Not Detected

Chain of
Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142(0907)

Client
£<TQA Jblt,fc#*f

Project Manager /£TF

Date

Chain of

Address

Telephone Number (Area Code)/Fax Number

Lab Number

Page. of

City State Zip Coda

Site Contact Lab Contact

Analysis {Attach list if more space is needed)

Protect Name ana Location (Slate)

Cat/ierflnfaybH) Number

Contract/Purchase OrderXmote No.
Ac 1AS31

Matrix

Containers & Preservatives

Special Instructions/ Conditions of Receipt

Sample ID. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives	Analysis	Special Instructions/ Conditions of Receipt
/*iu/-i - y/^-ay	Z2-/M	tolf	ZZM 1		z	3
/vtkrV-T /6V~?LY		II Zc	£ iM A		*	
Mu/lot\ -* /tK>-2.t		1320	X			
r>./ £w<	1	Gff'O			>m.	
jvits -I/-*/***'-*?		!*/&				/so /ZS* A- CJ«r*T

Possible Hazard Identification

Q Non-Hazard D Flammable Q Skin tnitant Q Poison 6 D Unknown

Sample Disposal

Q Return To Client Q Disposal By Lab Q Arctwe For Months

(A lee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

Z3 24Hours UiSHours D 7Days D UDays D 21 Days Q Other.

OC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
	12-19-07	1520		12-19-07	Time
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Jjl*

Comments

4.0°C

DISTRIBUTION: WHITE • Returned to Clmnt wim Report. CANARY - Slays wUh the Sample: PINK • Field Copy

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client

fCoA J~Q /v/r**sj

Address

City State Zip Code

Project Name and Location (State)

Contract/Purchase Order/Quote No.

AC 76X3/

Project Manager £X^

Telephone Number (Area Code)/Fax Number

Site Contact Lab Contact

Canier/Wayoill Number

Date -2M~>

UibNumber

Chain ot CustodYNumber

Page. of

Analysis (Attach list if more space is needed}

Special Instructions/ Conditions of Receipt

Sample ID. No. and Description (Containers for each sample may be combined on one trie)	Date	Time	Matrix	Containers & Preservatives								
/ *ttS /?t*f«//c	frlHl	OBoo		X								
' " - f /Scs-3LV	i	TX2P			v~$t	I						
fa-z /stu-zy		sf		V	!t L•L	*		73				

ll r

fl AuX*£r

rf*^ £<c*

&/Hrf

Possible Hazard Identification

O Non-Hazard D Flammable D Skm Irritant D Poison 8 D Unknown

Sample Disposal

D Return To Client • Disposal 8y Lab Q Archive For

OC Requirements (Specify)

(A fee rnay be assessed if samples are retained Months longer than t month) _____

Turn Around Time Required

D 24 Hows • 48 Hours O 7 Days D u Days D 21 Pays D Other.

f. Relinquished By	Date	Time		Date	| Time
2. Refaiopished By zc**	Dale	time	2. Received By	Date	Time
3. Relinquished By	Date	rime	3. Received By A <P 2.u	Dale	Time

Comments

0ISTRIBUTJON: WHITE • Returned to Client with Report: CANARY • Stays with the Sample: PINK • Field Copy

APPENDIX F
Newman Zone Material Safety Data Sheet

Remediation and Natural Attenuation Services Incorporated
6712 West River Road
Brooklyn Center, MN 55430

Product Information: 763-585-6191 Issue Date: March 28, 2002

Section.l:/ IDENTIFICATION ./ ,

1.1 Product Name: Newman Zone
1.2 Product Type: Inedible Industrial Nutrient for Microbial Organisms
1.3 Hazard Rating: Health: 1 Fire: 1 Reactivity: 1
1.4 Formula: Proprietary

Substances Subject to SARA 313 Reporting Are Indicated by "#"

It is our opinion that the above named product does not meet the definition of "hazardous Chemical" as defined in the OSHA "Hazard Communication Standard" regulation 29 CFR 1910.1200. This material Safety Data Sheet is provided as general information for health and safety guidelines.

Section 2: INGREDIENTS/COMPOSITION

	CAS No.	%	PEL	(mg/m^3) TWA
Soybean Oil (food grade)	8001-22-7	45	15(Mist)	10(Mist)
Sodium-L-Lactate	867-56-1	4		
Food Additives/Emulsifiers/Preservatives	(Proprietary)	<10		
Water		<45		

EMERGENCY ONLY, 24-HOUR SERVICE: CHEMTREC: 1-800-424-9300

Section 3: PHYSICAL AND CHEMICAL CHARACTERISTICS

This section completed per formulation ingredient data unless stated.

- Solubility: Dispersible in water (product)
- PH: 6 (product)
- Specific Gravity: 0.98 (product)
- Boiling Point: NA
- Vapor Pressure: NA
- Vapor Density: NA
- Percent Volatile By Volume (%}: NA
- Evaporation Rate: NA
- Viscosity: 23.6 cps @ 68°F (Brookfield)(product)
- Product Appearance and Odor: Light yellow-cream colored liquid, vegetable oil odor.

Section 4: FIRE AND EXPLOSION HAZARDS

This section completed per formulation ingredient data unless stated.

4.1 Special Fire Hazards: Product - none, does not support combustion.

Flash Point: >540 degrees F (Pure Soybean Oil Closed Cup).
Flammable Limits
LEL ND
UEL ND

4.2 Fire Fighting Methods: Use method appropriate for surrounding fire.

4.3 Extinguishing Media: Dry Chemical or CO2 Preferable; water may cause spattering or spreading.

Section 5: HEALTH HAZARD DATA

5.1 THIS PRODUCT IS NEITHER INTENDED NOR MANUFACTURED FOR HUMAN OR ANIMAL CONSUMPTION AND SHOULD NOT BE USED FOR FOOD OR FEEDSTUFFS.

5.2 Effects of Overexposure: NA

5.3 Emergency and First Aid Procedures: If inhaled, remove from contaminated atmosphere. For eye contact immediately flush eyes with large amounts of water. Ensure rinsing entire surface of eye & under lid. For skin contact wash affected areas thoroughly with soap and water. Seek medical help for persistent irritation.

5.4 Hydrolyzed soy protein has been identified by the United States Food and Drug Administration as a food allergen. Symptoms include swelling of the lips, stomach cramps, vomiting, diarrhea, skin hives, rashes, eczema and breathing problems.

5.5 Occupational Exposure Limits [8-hour time weighted averages (TWA)]:

	CAS No.	mg/m^3 OSHA PEL/ACGIH TLV
Soybean Oil (food grade)	8001-22-7	15(Mist)/10(Mist)

Section 6: REACTIVITY DATA

This section completed per formulation ingredient data unless stated.

6.1 Stability: Stable under normal conditions.

6.2 Conditions to Avoid: NA

6.3 Incompatibilities: None known

6.4 Hazardous Decomposition Products: Product - None identified. Ingredients - Carbon oxides. Biological decomposition (spoilage) may result in offensive odors.

6.5 Hazardous Polymerization; None known

Section 7: SPILL OR LEAK PROCEDURES

This section completed per formulation ingredient data unless stated.

7.1 Spill Response: Water dispersible. Same as for vegetable oil spills: isolate spill, prevent from entering waterways, and sewer systems. Sorb or remove spilled materials as soon as possible. Oils and specific quantities of oils may be reportable under federal, state, or local regulations.

7.2 Waste Disposal Method: This product is not hazardous, however, wastes must be disposed in accordance with local, state or federal regulations. Consult with local sewer authority, or solid waste facility prior to disposition.

Section 8: SPECIAL PRECAUTIONS

No protective equipment is necessary under normal use conditions.

8.1 Eyes: If splashing may occur, eye protection recommended.

8.3 Skin: Wear impervious gloves for prolonged or repeated exposure.

8.4 Respiratory: Avoid breathing mists of this product

Section 9: TRANSPORTATION PRECAUTIONS

This section completed per formulation ingredient data unless stated.

9.1 Transportation Considerations: This product is not classified as dangerous in the meaning of transport regulations. Shippers and transporters may need to meet packaging and transportation requirements for certain oils and respective quantities under CFR 49 Part 130.

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

END

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