

# Memorandum

**DATE:** JANUARY 29, 2003  
**TO:** Brad Nave, DuPont CRG  
**CC:** Cary Pooler, URS Diamond

**FROM:** Sharon Nordstrom

**RE: BARKSDALE WORKS- RESIDENT WELL SAMPLING**

Enclosed please find the final data reports for the residential well samples collected on November 6, 2002, December 9 –13, 2002, and January 10, 2003. All samples were submitted to STL, Inc, Denver CO for analysis for Nitroaromatic and Nitramine organics using EPA method SW846 8321A, and nitrate-nitrite N using EPA method 353.2. In addition, selected locations were also analyzed for the Wisconsin-regulated volatile organics using method SW-846 8260B, and additional metals and inorganic water quality parameters. The sample collected on January 10, 2002 for volatile organics, was split at the point of collection, and also submitted to Lancaster Laboratories, New Holland, PA for a duplicate volatiles analysis.

No significant QC issues were noted during the review of the laboratory data submittals. All samples were received at the laboratories intact and at temperatures of less than 6 degrees C. Several matrix spikes were recovered outside the acceptance window for the analysis, however the laboratory control spikes were compliant, and the laboratory reported matrix interference to be a possible factor. A full data validation of the Nitroaromatic/Nitramines analysis was performed by Environmental Standards, Inc., Valley Forge, PA. A copy of their Quality Assurance Summary Review for the sample sets are included in this report.

Please do not hesitate to contact me if you have any questions regarding the report.

# **BARKSDALE WORKS – RESIDENT WELLS 12/02**

**Barksdale, WI**

**January 29, 2003**

*Prepared for*

Brad Nave, DuPont CRG

Cary Pooler, URS Diamond

*Prepared by*

URS Diamond  
Laboratory Services – Sharon A. Nordstrom  
Barley Mill Plaza, Building 27  
Wilmington, DE 19805

# Corporate Remediation Group

## Corporate Environmental Database Check List

**Location:** Barksdale Works  
Barksdale, WI

**Jobname:** Resident Wells 12/02

SAN	<p><b>Preliminary Administration</b></p> <p>Review Project Sheet</p> <p>Verify location/jobname in sample table</p>
SAN	<p><b>Project Backstop</b></p> <p>Disk Deliverable Integrity</p> <p>QC Batch Integrity</p> <p>(Correct problems/Pull backstop as necessary)</p>
SAN	<p><b>Completeness Check</b></p> <p>Samples    ___X___ 100%</p> <p>Tests       ___X___ 100%</p> <p>Parameters   _____ 100%</p> <p>                  or   ___X___ &lt;100%</p>
N/A	<p><b>Accuracy Check</b></p> <p>CED Results vs. Hard Copy Lab Reports</p>
SAN	<p><b>Comments/Narrative Review</b></p>
SAN	<p><b>Laboratory Services Coordinator Overview</b></p> <p>Review Report</p> <p>Cover letter/title page for customer</p>
CG	<p><b>Report Finish</b></p> <p>Copy and Bind</p>
CG	<p><b>Mail to Client(s)</b></p>

Sharon A. Nordstrom  
Certified by

January 29, 2003  
Date

# Reporting Process

The following process is followed on all projects where data is delivered to the Corporate Environmental Database (CED) and a report is generated from the CED. All projects which bypass the CED (are directly reported by a laboratory) do not receive the rigorous treatment presented below.

## **Preliminary Administration**

To begin a report, the reporting coordinator checks the file and updates the reporting schedule. A review of the project sheet is the next step to familiarize the coordinator with specifications and special instructions. Finally, the location and jobname are either added, corrected, or verified to ensure all samples are properly identified as in the project.

## **Project Backstop**

First, the backstop is used to check the disk deliverable integrity of all project data. This tool checks the CED readiness of the data. Second, quality control batch integrity is checked by the backstop. It is verified that all samples for each test have appropriate quality control samples attached.

## **Completeness Check**

Data completeness is checked against project specifications. First, all sample points are identified as 100% complete. Then, all tests for each sample point are checked for 100% completeness. A parameter (or analyte) count is verified for each sample and test. A 100% parameter check and/or reporting threshold check can be done if requested in project specifications.

## **Accuracy Check**

The results reported by disk and located in the CED are checked against the hard copy laboratory reports for accuracy. This stage is a 100% check of the accuracy of the data.

## **Comments/Narrative Review**

Three steps are included in the comments/narrative review. First, any comments made by the laboratory are located in the hard copy reports. Second, the quality control section(s) of the laboratory reports are reviewed for obvious quality control deficiencies (matrix spike or replicate outside control limits without appropriate comment). If questionable, the laboratory is contacted for verification. Finally, the appropriate comments are entered into the CED.

## **Overview**

The completed report is reviewed by a person familiar with the project (usually the customer service representative) and a cover letter is produced by the reviewer.

## **Report Finish/Mailing**

The final step is to copy, bind, and mail the report to the client(s) in the format specified in the project specifications.

Corporate Environmental Database  
 Lab Analysis Report  
 Summary of Positive Results

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02

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Analyte/Parameter	Result	Unit	MDL	PQL	Method No.
Sampling Point: 29600N-INFLOW C of C Sampleid: BAR-G-29600N-INFLOW Date Sampled: Dec 13, 2002 Sample Type: GROUND WATER QC Level: QC (ADQM QC Process)					
TOTAL DISSOLVED SOLIDS	75.0	MG/L	5.0	10.0	160.1
CHLORIDE	5.6 J	MG/L	0.10	3.0	300.0A
SULFATE	4.6 B	MG/L	0.20	5.0	300.0A
ALUMINUM	83.1 B	UG/L	20.0	100	6010B
BARIUM	9.7 B	UG/L	1.8	200	6010B
BORON	45.0 B	UG/L	5.2	100	6010B
COBALT	0.96 B	UG/L	0.92	10.0	6010B
COPPER	0.95 B	UG/L	0.76	25.0	6010B
IRON	2610	UG/L	13.0	100	6010B
MANGANESE	152	UG/L	0.49	15.0	6010B
NICKEL	3.1 B	UG/L	1.7	40.0	6010B
ZINC	16.4 B	UG/L	6.8	20.0	6010B
ANTIMONY	1.3 B	UG/L	0.040	1.8	6020
ARSENIC	0.31 B	UG/L	0.061	1.0	6020
LEAD	0.43 B	UG/L	0.15	1.3	6020
ACETONE	14	UG/L	2.9	10	8260B
TOLUENE	3.0	UG/L	0.26	1.0	8260B

Sampling Point: 30380N-INFLOW  
 C of C Sampleid: BAR-G-30380N-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.50	MG/L	0.012	0.10	353.2
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Sampling Point: 30490N-INFLOW  
 C of C Sampleid: BAR-G-30490N-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.24	MG/L	0.012	0.10	353.2
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Sampling Point: 30700N-INFLOW  
 C of C Sampleid: BAR-G-30700N-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.53	MG/L	0.012	0.10	353.2
2,4-DINITROTOLUENE	0.068 J	UG/L	0.026	0.12	8321
2,6-DINITROTOLUENE	1.3	UG/L	0.022	0.12	8321
4-AMINO-2,6-DINITROTOLUENE	0.035 J	UG/L	0.020	0.12	8321

Sampling Point: 30810N-INFLOW  
 C of C Sampleid: BAR-G-30810N-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	1.2	MG/L	0.012	0.10	353.2
METHYLENE CHLORIDE	1.1	UG/L	0.86	1.0	8260B
2,4-DINITROTOLUENE	0.071 J	UG/L	0.026	0.12	8321
2,6-DINITROTOLUENE	1.4	UG/L	0.022	0.12	8321
2-AMINO-4,6-DINITROTOLUENE	0.061 J	UG/L	0.036	0.12	8321
4-AMINO-2,6-DINITROTOLUENE	0.17	UG/L	0.020	0.12	8321

Sampling Point: 30900N-INFLOW  
 C of C Sampleid: BAR-G-30900N-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

METHYLENE CHLORIDE	1.0	UG/L	0.86	1.0	8260B
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Corporate Environmental Database  
 Lab Analysis Report  
 Summary of Positive Results

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02

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Analyte/Parameter	Result	Unit	MDL	PQL	Method No.
TOLUENE	1.5	UG/L	0.26	1.0	8260B

Sampling Point: 72040H-INFLOW  
 C of C Sampleid: BAR-G-72040H-INFLOW  
 Date Sampled: Dec 12, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	3.6	MG/L	0.012	0.10	353.2
2,4-DINITROTOLUENE	0.099 J	UG/L	0.026	0.12	8321
2,6-DINITROTOLUENE	1.8	UG/L	0.11	0.60	8321
2-AMINO-4,6-DINITROTOLUENE	0.54	UG/L	0.036	0.12	8321
4-AMINO-2,6-DINITROTOLUENE	0.47	UG/L	0.020	0.12	8321

Sampling Point: 72330H-INFLOW  
 C of C Sampleid: BAR-G-72330H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	1.6	MG/L	0.012	0.10	353.2
1,1,1-TRICHLOROETHANE	0.63 J	UG/L	0.32	1.0	8260B

Sampling Point: 72330H-INFLOW  
 C of C Sampleid: BAR-G-72330H-INFLOW-DUP  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	1.8	MG/L	0.012	0.10	353.2
1,1,1-TRICHLOROETHANE	0.67 J	UG/L	0.32	1.0	8260B

Sampling Point: 72370H-INFLOW  
 C of C Sampleid: BAR-G-72370H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	3.0	MG/L	0.012	0.10	353.2
1,1,1-TRICHLOROETHANE	1.5	UG/L	0.32	1.0	8260B
ACETONE	4.0 J	UG/L	2.9	10	8260B

Sampling Point: 72410H-INFLOW  
 C of C Sampleid: BAR-G-72410H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	1.4	MG/L	0.012	0.10	353.2
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Sampling Point: 72420H-INFLOW  
 C of C Sampleid: BAR-G-72420H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	1.3	MG/L	0.012	0.10	353.2
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Sampling Point: 72450H-INFLOW  
 C of C Sampleid: BAR-G-72450H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.78	MG/L	0.012	0.10	353.2
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Corporate Environmental Database  
 Lab Analysis Report  
 Summary of Positive Results

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02

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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Method No.</u>
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Sampling Point: 72470H-INFLOW  
 C of C Sampleid: BAR-G-72470H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.92	MG/L	0.012	0.10	353.2
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Sampling Point: 72520H-INFLOW  
 C of C Sampleid: BAR-G-72520H-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.19	MG/L	0.012	0.10	353.2
2,4-DINITROTOLUENE	0.081 J	UG/L	0.026	0.12	8321
2,6-DINITROTOLUENE	0.28	UG/L	0.022	0.12	8321
2-NITROTOLUENE	0.046 J	UG/L	0.026	0.12	8321

Sampling Point: 72700H-INFLOW  
 C of C Sampleid: BAR-G-72700H-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

METHYLENE CHLORIDE	1.2	UG/L	0.86	1.0	8260B
TOLUENE	2.4	UG/L	0.26	1.0	8260B

Sampling Point: 72790H-INFLOW  
 C of C Sampleid: BAR-G-72790H-INFLOW  
 Date Sampled: Dec 11, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

CARBON DISULFIDE	0.71 J	UG/L	0.67	1.0	8260B
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Sampling Point: 73030BG-INFLOW  
 C of C Sampleid: BAR-G-73030BG-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.12	MG/L	0.012	0.10	353.2
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Sampling Point: 73095BG-INFLOW  
 C of C Sampleid: BAR-G-73095BG-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	2.5	MG/L	0.012	0.10	353.2
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Sampling Point: 73110BG-INFLOW  
 C of C Sampleid: BAR-G-73110BG-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.23	MG/L	0.012	0.10	353.2
2,4-DINITROTOLUENE	0.033 J	UG/L	0.026	0.12	8321
2,6-DINITROTOLUENE	0.63	UG/L	0.022	0.12	8321

Sampling Point: 73110H-INFLOW  
 C of C Sampleid: BAR-G-73110H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

Corporate Environmental Database  
 Lab Analysis Report  
 Summary of Positive Results

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02

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Analyte/Parameter	Result	Unit	MDL	PQL	Method No.
NITRATE-NITRITE	4.5	MG/L	0.012	0.10	353.2
2,6-DINITROTOLUENE	0.54	UG/L	0.022	0.12	8321

Sampling Point: 73120BG-INFLOW  
 C of C Sampleid: BAR-G-73120BG-INFLOW  
 Date Sampled: Dec 12, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.93	MG/L	0.012	0.10	353.2
2,6-DINITROTOLUENE	0.12	UG/L	0.022	0.12	8321

Sampling Point: 73160H-INFLOW  
 C of C Sampleid: BAR-G-73160H-INFLOW  
 Date Sampled: Dec 9, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	1.0	MG/L	0.012	0.10	353.2
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Sampling Point: 73280H-INFLOW  
 C of C Sampleid: BAR-G-73280H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.012 B	MG/L	0.012	0.10	353.2
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Sampling Point: 73500H-INFLOW  
 C of C Sampleid: BAR-G-73500H-INFLOW  
 Date Sampled: Dec 10, 2002  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

NITRATE-NITRITE	0.34	MG/L	0.012	0.10	353.2
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Qualifiers:

- J The result should be considered an estimate.
- J The result is between MDL and PQL and should be considered an estimate.



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-29025E-INFLOW  
 Sampling Point: 29025E-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET8J-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	63.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-29250E-INFLOW  
 Sampling Point: 29250E-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET55-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002

Surrogates:

NITROBENZENE-D5 1 87.0 RPR Dec 19, 2002

Prep/Method: SW3535/8321

HMX	5	ND	UG/L	0.20	0.60	Dec 20, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 20, 2002

Surrogates:

NITROBENZENE-D5 5 0.0 RPR Dec 20, 2002

Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-29310E-INFLOW  
 Sampling Point: 29310E-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET58-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	57.0 RPR				Dec 19, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-29380E-INFLOW  
 Sampling Point: 29380E-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET6D-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	80.0 RPR				Dec 19, 2002

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Lab Analysis Report

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-29440E-INFLOW  
Sampling Point: 29440E-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET57-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002

Surrogates:

NITROBENZENE-D5	1	87.0 RPR				Dec 19, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

<u>Prep/Method: SW3535/8321</u>						
HMX	5	ND	UG/L	0.20	0.60	Dec 20, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 20, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 20, 2002
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Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-29600N-INFLOW  
Sampling Point: 29600N-INFLOW  
Date Sampled: DECEMBER 13, 2002  
Lab Sample ID: FEV9E-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 160.1/160.1</u>						
TOTAL DISSOLVED SOLIDS	1	75.0	MG/L	5.0	10.0	Dec 19, 2002
<u>Prep/Method: 300.0A/300.0A</u>						
CHLORIDE	1	5.6 J	MG/L	0.10	3.0	Dec 30, 2002
SULFATE	1	4.6 B	MG/L	0.20	5.0	Dec 30, 2002
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: 3010A/6010B</u>						
ALUMINUM	1	83.1 B	UG/L	20.0	100	Dec 22, 2002
BARIUM	1	9.7 B	UG/L	1.8	200	Dec 26, 2002
BERYLLIUM	1	ND	UG/L	0.22	4.0	Dec 22, 2002
BORON	1	45.0 B	UG/L	5.2	100	Dec 22, 2002
CHROMIUM	1	ND	UG/L	0.74	10.0	Dec 26, 2002
COBALT	1	0.96 B	UG/L	0.92	10.0	Dec 26, 2002
COPPER	1	0.95 B	UG/L	0.76	25.0	Dec 26, 2002
IRON	1	2610	UG/L	13.0	100	Dec 22, 2002
MANGANESE	1	152	UG/L	0.49	15.0	Dec 26, 2002
NICKEL	1	3.1 B	UG/L	1.7	40.0	Dec 26, 2002
SILVER	1	ND	UG/L	0.54	10.0	Dec 26, 2002
VANADIUM	1	ND	UG/L	2.2	10.0	Dec 26, 2002
ZINC	1	16.4 B	UG/L	6.8	20.0	Dec 26, 2002
<u>Prep/Method: 3010/6020</u>						
ANTIMONY	1	1.3 B	UG/L	0.040	1.8	Dec 26, 2002
ARSENIC	1	0.31 B	UG/L	0.061	1.0	Dec 26, 2002
CADMIUM	1	ND	UG/L	0.022	0.20	Dec 26, 2002
LEAD	1	0.43 B	UG/L	0.15	1.3	Dec 26, 2002
SELENIUM	1	ND	UG/L	0.19	5.0	Dec 26, 2002
THALLIUM	1	ND	UG/L	0.015	1.2	Dec 26, 2002
<u>Prep/Method: 7470A/7470A</u>						
MERCURY	1	ND	UG/L	0.015	0.20	Dec 24, 2002
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	14	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-29600N-INFLOW  
Sampling Point: 29600N-INFLOW  
Date Sampled: DECEMBER 13, 2002  
Lab Sample ID: FEV9E-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	3.0	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002

Surrogates:

1,2-DICHLOROETHANE-D4	1	97.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	93.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	97.0 RPR				Dec 20, 2002
TOLUENE-D8	1	97.0 RPR				Dec 20, 2002

Prep/Method: SW3535/8321

1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002

Surrogates:

NITROBENZENE-D5	1	75.0 RPR				Dec 21, 2002
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Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-29700E-INFLOW  
 Sampling Point: 29700E-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET8D-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	71.0 RPR				Dec 20, 2002



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-29745E-INFLOW  
 Sampling Point: 29745E-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET6C-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
Surrogates:						
NITROBENZENE-D5	1	79.0 RPR				Dec 19, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30095M-INFLOW  
 Sampling Point: 30095M-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET77-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	56.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30175M-INFLOW  
 Sampling Point: 30175M-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET79-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	61.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30190M-INFLOW  
 Sampling Point: 30190M-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET76-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	72.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30200M-INFLOW  
 Sampling Point: 30200M-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET8A-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	52.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30200M-INFLOW-DUP  
 Sampling Point: 30200M-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET75-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	59.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30300N-INFLOW  
 Sampling Point: 30300N-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQK6-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 17, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 17, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 17, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 17, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 17, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 17, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 17, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 17, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 17, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 17, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 17, 2002
Surrogates:						
NITROBENZENE-D5	1	92.0 RPR				Dec 17, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-30300N-INFLOW-DUP  
Sampling Point: 30300N-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQK8-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: Sw3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 17, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 17, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 17, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 17, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 17, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 17, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 17, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 17, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 17, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 17, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 17, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	77.0 RPR				Dec 17, 2002



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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30380N-INFLOW  
 Sampling Point: 30380N-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQK9-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.50	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: Sw3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND UJ	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002

Surrogates:

NITROBENZENE-D5	1	90.0 RPR				Dec 18, 2002
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Qualifiers:

UJ The constituent was analyzed for, but was not detected. The result is an estimate and may be inaccurate or imprecise.

Prep/Method: SW3535/8321

HMX	5	ND UJ	UG/L	0.20	0.60	Dec 18, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 18, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 18, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Qualifiers:

UJ The constituent was analyzed for, but was not detected. The result is an estimate and may be inaccurate or imprecise.

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Lab Analysis Report

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-30490N-INFLOW  
Sampling Point: 30490N-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLL-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u> NITRATE-NITRITE	1	0.24	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u> 1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	81.0 RPR				Dec 18, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30700N-EFFLUENT  
 Sampling Point: 30700N-EFFLUENT  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FELX9-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	59.0 RPR				Dec 14, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-30700N-INFLOW  
Sampling Point: 30700N-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELX4-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.53	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	0.068 J	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	1.3	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	0.035 J	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002

Surrogates:

NITROBENZENE-D5	1	56.0 RPR				Dec 14, 2002
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Qualifiers:

J The result should be considered an estimate.

Prep/Method: SW3535/8321

HMX	5	ND	UG/L	0.20	0.60	Dec 18, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 18, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 18, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

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Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-30810N-EFFLUENT  
 Sampling Point: 30810N-EFFLUENT  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FELOK-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002
Surrogates:						
NITROBENZENE-D5	1	65.0 RPR				Dec 14, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-30810N-INFLOW  
Sampling Point: 30810N-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELOG-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	1.2	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 19, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 19, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 19, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 19, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 19, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 19, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 19, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 19, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 19, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 19, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 19, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 19, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 19, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 19, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 19, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 19, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 19, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 19, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 19, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 19, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 19, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 19, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 19, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 19, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 19, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 19, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 19, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 19, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 19, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 19, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 19, 2002
METHYLENE CHLORIDE	1	1.1	UG/L	0.86	1.0	Dec 19, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 19, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 19, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 19, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 19, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 19, 2002
TRICHLOROFUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 19, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 19, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 19, 2002
<u>Surrogates:</u>						
1,2-DICHLOROETHANE-D4	1	111.0 RPR				Dec 19, 2002
4-BROMOFLUOROBENZENE	1	101.0 RPR				Dec 19, 2002
DIBROMOFLUOROMETHANE	1	100.0 RPR				Dec 19, 2002
TOLUENE-D8	1	103.0 RPR				Dec 19, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	0.071 J	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	1.4	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	0.061 J	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	0.17	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-30810N-INFLOW  
Sampling Point: 30810N-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELOG-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002

Surrogates:

NITROBENZENE-D5	1	81.0 RPR				Dec 14, 2002
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Qualifiers:

J The result should be considered an estimate.

Prep/Method: SW3535/8321

HMX	5	ND	UG/L	0.20	0.60	Dec 14, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 14, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 14, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-30900N-INFLOW  
Sampling Point: 30900N-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELXE-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 19, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 19, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 19, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 19, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 19, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 19, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 19, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 19, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 19, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 19, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 19, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 19, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 19, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 19, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 19, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 19, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 19, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 19, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 19, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 19, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 19, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 19, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 19, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 19, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 19, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 19, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 19, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 19, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 19, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 19, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 19, 2002
METHYLENE CHLORIDE	1	1.0	UG/L	0.86	1.0	Dec 19, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 19, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 19, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 19, 2002
TOLUENE	1	1.5	UG/L	0.26	1.0	Dec 19, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 19, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 19, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 19, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 19, 2002
<u>Surrogates:</u>						
1,2-DICHLOROETHANE-D4	1	98.0 RPR				Dec 19, 2002
4-BROMOFLUOROBENZENE	1	98.0 RPR				Dec 19, 2002
DIBROMOFLUOROMETHANE	1	98.0 RPR				Dec 19, 2002
TOLUENE-D8	1	102.0 RPR				Dec 19, 2002



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-31340S-INFLOW  
 Sampling Point: 31340S-INFLOW  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FET8R-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002

Surrogates:

NITROBENZENE-D5	1	58.0 RPR				Dec 21, 2002
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Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-31345S-INFLOW  
 Sampling Point: 31345S-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQL9-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	99.0 RPR				Dec 18, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-710150-INFLOW  
Sampling Point: 710150-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET8M-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	60.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-71075H-INFLOW  
 Sampling Point: 71075H-INFLOW  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FET65-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	77.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-71075H-INFLOW-DUP  
 Sampling Point: 71075H-INFLOW  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FET66-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	83.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-711150-INFLOW  
 Sampling Point: 711150-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET56-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
Surrogates:						
NITROBENZENE-D5	1	76.0 RPR				Dec 19, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-711250-INFLOW  
 Sampling Point: 711250-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET8F-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
Surrogates:						
NITROBENZENE-D5	1	66.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-711500-INFLOW  
 Sampling Point: 711500-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET8K-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	65.0 RPR				Dec 20, 2002



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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-71205H-INFLOW  
Sampling Point: 71205H-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET5L-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	81.0 RPR				Dec 19, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-71210H-INFLOW  
 Sampling Point: 71210H-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET49-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	88.0 RPR				Dec 19, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-71250H-INFLOW  
 Sampling Point: 71250H-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET36-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	83.0 RPR				Dec 19, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-71270H-INFLOW  
Sampling Point: 71270H-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET8P-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	47.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-71450H-INFLOW  
 Sampling Point: 71450H-INFLOW  
 Date Sampled: DECEMBER 11, 2002  
 Lab Sample ID: FET8N-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
Surrogates:						
NITROBENZENE-D5	1	72.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-71470H-INFLOW  
Sampling Point: 71470H-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET8W-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	65.0 RPR				Dec 21, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-714850-INFLOW  
Sampling Point: 714850-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET8L-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 20, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 20, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 20, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 20, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 20, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 20, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 20, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 20, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 20, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 20, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 20, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 20, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 20, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	72.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-717150-INFLOW  
Sampling Point: 717150-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET54-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
Surrogates:						
NITROBENZENE-D5	1	81.0 RPR				Dec 19, 2002



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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72040H-EFFLUENT  
Sampling Point: 72040H-EFFLUENT  
Date Sampled: DECEMBER 12, 2002  
Lab Sample ID: FET6M-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
Surrogates:						
NITROBENZENE-D5	1	77.0 RPR				Dec 19, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72040H-INFLOW  
Sampling Point: 72040H-INFLOW  
Date Sampled: DECEMBER 12, 2002  
Lab Sample ID: FET6G-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	3.6	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 22, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 22, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 22, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 22, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 22, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 22, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 22, 2002
1,2,4-TRICHLOROETHANE	1	ND	UG/L	0.63	1.0	Dec 22, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 22, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 22, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 22, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.30	1.0	Dec 22, 2002
1,2-DICHLOROETHENE	1	ND	UG/L	0.43	1.0	Dec 22, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 22, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 22, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 22, 2002
1,3-DICHLOROETHANE	1	ND	UG/L	0.30	1.0	Dec 22, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 22, 2002
1,4-DICHLOROETHANE	1	ND	UG/L	0.31	1.0	Dec 22, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 22, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 22, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 22, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 22, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 22, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 22, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 22, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 22, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 22, 2002
CHLOROETHANE	1	ND	UG/L	0.24	1.0	Dec 22, 2002
CHLOROETHENE	1	ND	UG/L	0.26	2.0	Dec 22, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 22, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 22, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 22, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 22, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 22, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 22, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 22, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 22, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 22, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 22, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 22, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 22, 2002
TRICHLOROETHANE	1	ND	UG/L	0.24	1.0	Dec 22, 2002
TRICHLOROETHENE	1	ND	UG/L	0.43	2.0	Dec 22, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 22, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 22, 2002
Surrogates:						
1,2-DICHLOROETHANE-D4	1	91.0 RPR				Dec 22, 2002
4-BROMOFLUOROBENZENE	1	79.0 RPR				Dec 22, 2002
DIBROMOFLUOROMETHANE	1	116.0 RPR				Dec 22, 2002
TOLUENE-D8	1	99.0 RPR				Dec 22, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	0.099 J	UG/L	0.026	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	0.54	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	0.47	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND UJ	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-7204OH-INFLOW  
Sampling Point: 7204OH-INFLOW  
Date Sampled: DECEMBER 12, 2002  
Lab Sample ID: FET6G-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002

Surrogates:

NITROBENZENE-D5	1	75.0 RPR				Dec 19, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Qualifiers:

J The result should be considered an estimate.

UJ The constituent was analyzed for, but was not detected. The result is an estimate and may be inaccurate or imprecise.

Prep/Method: 5030B/8260B

1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 23, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 23, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 23, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 23, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 23, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 23, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 23, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 23, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 23, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 23, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 23, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 23, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 23, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 23, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 23, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 23, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 23, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 23, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 23, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 23, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 23, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 23, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 23, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 23, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 23, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 23, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 23, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 23, 2002
CHLOROETHANE	1	ND	UG/L	0.24	1.0	Dec 23, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 23, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 23, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 23, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 23, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 23, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 23, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 23, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 23, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 23, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 23, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 23, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 23, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 23, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 23, 2002
TRICHLOROFUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 23, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 23, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 23, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-7204OH-INFLOW  
 Sampling Point: 7204OH-INFLOW  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FET6G-2 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

Analyte/Parameter -----	Dilution -----	RPR ---				Date Analyzed -----
Surrogates:						
1,2-DICHLOROETHANE-D4	1	100.0 RPR				Dec 23, 2002
4-BROMOFLUOROBENZENE	1	95.0 RPR				Dec 23, 2002
DIBROMOFLUOROMETHANE	1	100.0 RPR				Dec 23, 2002
TOLUENE-D8	1	94.0 RPR				Dec 23, 2002
Prep/Method: Sw3535/8321						
2,6-DINITROTOLUENE	5	1.8	UG/L	0.11	0.60	Dec 20, 2002
Surrogates:						
NITROBENZENE-D5	5	0.0 RPR				Dec 20, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72330H-EFFLUENT  
 Sampling Point: 72330H-EFFLUENT  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQFK-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	74.0 RPR				Dec 21, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72330H-INFLOW  
Sampling Point: 72330H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQFD-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	1.6	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	0.63 J	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHENE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002
Surrogates:						
1,2-DICHLOROETHANE-D4	1	104.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	94.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	100.0 RPR				Dec 20, 2002
TOLUENE-D8	1	95.0 RPR				Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72330H-INFLOW  
 Sampling Point: 72330H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQFD-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002

Surrogates:

NITROBENZENE-D5	1	65.0 RPR				Dec 21, 2002
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Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

<u>Prep/Method: SW3535/8321</u>						
HMX	5	ND	UG/L	0.20	0.60	Dec 22, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 22, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 22, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Corporate Environmental Database  
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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72330H-INFLOW-DUP  
Sampling Point: 72330H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLQ-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	1.8	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	0.67 J	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002

Surrogates:

1,2-DICHLOROETHANE-D4	1	99.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	94.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	98.0 RPR				Dec 20, 2002
TOLUENE-D8	1	97.0 RPR				Dec 20, 2002

Prep/Method: SW3535/8321

1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002



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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72330H-INFLOW-DUP  
Sampling Point: 72330H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLQ-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002

Surrogates:

NITROBENZENE-D5	1	81.0 RPR				Dec 18, 2002
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Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

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Lab Analysis Report

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72370H-EFFLUENT  
Sampling Point: 72370H-EFFLUENT  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLH-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
Surrogates:						
NITROBENZENE-D5	1	86.0 RPR				Dec 18, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72370H-INFLOW  
Sampling Point: 72370H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLE-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	3.0	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: 50308/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	1.5	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	4.0 J	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002
Surrogates:						
1,2-DICHLOROETHANE-D4	1	102.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	93.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	101.0 RPR				Dec 20, 2002
TOLUENE-D8	1	95.0 RPR				Dec 20, 2002
<u>Prep/Method: Sw3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72370H-INFLOW  
Sampling Point: 72370H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLE-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002

Surrogates:

NITROBENZENE-D5	1	72.0 RPR				Dec 18, 2002
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Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72410H-EFFLUENT  
Sampling Point: 72410H-EFFLUENT  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQF8-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: Sw3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	62.0 RPR				Dec 21, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72410H-INFLOW  
Sampling Point: 72410H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQF7-1 Analysis Lab: GES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	1.4	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002
Surrogates:						
1,2-DICHLOROETHANE-D4	1	103.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	92.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	98.0 RPR				Dec 20, 2002
TOLUENE-D8	1	94.0 RPR				Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72410H-INFLOW  
 Sampling Point: 72410H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQF7-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002

Surrogates:

NITROBENZENE-D5	1	62.0 RPR				Dec 21, 2002
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Prep/Method: SW3535/8321

HMX	5	ND	UG/L	0.20	0.60	Dec 22, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 22, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 22, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72420H-EFFLUENT  
 Sampling Point: 72420H-EFFLUENT  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQGK-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002

Surrogates:

NITROBENZENE-D5	1	63.0 RPR				Dec 21, 2002
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Prep/Method: SW3535/8321

HMX	5	ND	UG/L	0.20	0.60	Dec 22, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 22, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 22, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72420H-INFLOW  
 Sampling Point: 72420H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQGE-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	1.3	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	56.0 RPR				Dec 21, 2002
<u>Prep/Method: SW3535/8321</u>						
HMX	5	ND	UG/L	0.20	0.60	Dec 22, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 22, 2002
Surrogates:						
NITROBENZENE-D5	5	0.0 RPR				Dec 22, 2002

Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

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Lab Analysis Report

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72450H-EFFLUENT  
Sampling Point: 72450H-EFFLUENT  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQME-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	80.0 RPR				Dec 18, 2002

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Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72450H-INFLOW  
 Sampling Point: 72450H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQMC-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.78	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
Surrogates:						
NITROBENZENE-D5	1	81.0 RPR				Dec 18, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72470H-EFFLUENT  
Sampling Point: 72470H-EFFLUENT  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQL8-1 Analysis Lab: GES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	93.0 RPR				Dec 18, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72470H-INFLOW  
Sampling Point: 72470H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQL6-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.92	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
Surrogates:						
NITROBENZENE-D5	1	100.0 RPR				Dec 18, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72520H-EFFLUENT  
 Sampling Point: 72520H-EFFLUENT  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FELOR-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002
Surrogates:						
NITROBENZENE-D5	1	36.0 RPR				Dec 14, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72520H-INFLOW  
Sampling Point: 72520H-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELON-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.19	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	0.081 J	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	0.28	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	0.046 J	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002

Surrogates:

NITROBENZENE-D5	1	67.0 RPR				Dec 14, 2002
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Qualifiers:

J The result should be considered an estimate.

Prep/Method: SW3535/8321

HMX	5	ND	UG/L	0.20	0.60	Dec 14, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 14, 2002

Surrogates:

NITROBENZENE-D5	5	0.0 RPR				Dec 14, 2002
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Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72700H-EFFLUENT  
Sampling Point: 72700H-EFFLUENT  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELXW-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
HMX	1	ND UJ	UG/L	0.040	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002

Surrogates:

NITROBENZENE-D5	1	64.0 RPR				Dec 14, 2002
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Qualifiers:

UJ The constituent was analyzed for, but was not detected. The result is an estimate and may be inaccurate or imprecise.



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72700H-INFLOW  
Sampling Point: 72700H-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELXN-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 19, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 19, 2002
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 19, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 19, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 19, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 19, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 19, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 19, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 19, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 19, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 19, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 19, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 19, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 19, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 19, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 19, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 19, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 19, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 19, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 19, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 19, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 19, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 19, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 19, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 19, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 19, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 19, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 19, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 19, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 19, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 19, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 19, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 19, 2002
METHYLENE CHLORIDE	1	1.2	UG/L	0.86	1.0	Dec 19, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 19, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 19, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 19, 2002
TOLUENE	1	2.4	UG/L	0.26	1.0	Dec 19, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 19, 2002
TRICHLOROFUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 19, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 19, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 19, 2002

Surrogates:

1,2-DICHLOROETHANE-D4	1	107.0 RPR				Dec 19, 2002
4-BROMOFUOROBENZENE	1	92.0 RPR				Dec 19, 2002
DIBROMOFUOROMETHANE	1	104.0 RPR				Dec 19, 2002
TOLUENE-D8	1	94.0 RPR				Dec 19, 2002

Prep/Method: SW3535/8321

1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 13, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 13, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 13, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 13, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 13, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 13, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 13, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72700H-INFLOW  
Sampling Point: 72700H-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELXN-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 13, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 13, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 13, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 13, 2002

Surrogates:

NITROBENZENE-D5	1	67.0 RPR				Dec 13, 2002
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Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72730H-INFLOW  
 Sampling Point: 72730H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQK5-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 17, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 17, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 17, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 17, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 17, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 17, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 17, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 17, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 17, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 17, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 17, 2002
Surrogates:						
NITROBENZENE-D5	1	92.0 RPR				Dec 17, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72790H-INFLOW  
Sampling Point: 72790H-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET5P-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 22, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 22, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 22, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 22, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 22, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 22, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 22, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 22, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 22, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 22, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 22, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 22, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 22, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 22, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 22, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 22, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 22, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 22, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 22, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 22, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 22, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 22, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 22, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 22, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 22, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 22, 2002
CARBON DISULFIDE	1	0.71 J	UG/L	0.67	1.0	Dec 22, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 22, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 22, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 22, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 22, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 22, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 22, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 22, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 22, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 22, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 22, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 22, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 22, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 22, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 22, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 22, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 22, 2002
TRICHLOROFUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 22, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 22, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 22, 2002
Surrogates:						
1,2-DICHLOROETHANE-D4	1	85.0 RPR				Dec 22, 2002
4-BROMOFLUOROBENZENE	1	83.0 RPR				Dec 22, 2002
DIBROMOFLUOROMETHANE	1	111.0 RPR				Dec 22, 2002
TOLUENE-D8	1	91.0 RPR				Dec 22, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72790H-INFLOW  
Sampling Point: 72790H-INFLOW  
Date Sampled: DECEMBER 11, 2002  
Lab Sample ID: FET5P-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002

Surrogates:

NITROBENZENE-D5	1	84.0 RPR				Dec 19, 2002
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Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-72860H-INFLOW  
 Sampling Point: 72860H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQK4-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 17, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 17, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 17, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 17, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 17, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 17, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 17, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 17, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 17, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 17, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 17, 2002
Surrogates:						
NITROBENZENE-D5	1	84.0 RPR				Dec 17, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72910H-INFLOW  
Sampling Point: 72910H-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELX0-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002
Surrogates:						
NITROBENZENE-D5	1	66.0 RPR				Dec 14, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-72920H-INFLOW  
Sampling Point: 72920H-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELW7-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 13, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 13, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 13, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 13, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 13, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 13, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 13, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 13, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 13, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 13, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 13, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	71.0 RPR				Dec 13, 2002



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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73025BG-INFLOW  
 Sampling Point: 73025BG-INFLOW  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FELW9-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 13, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 13, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 13, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 13, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 13, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 13, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 13, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 13, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 13, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 13, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 13, 2002
Surrogates:						
NITROBENZENE-D5	1	70.0 RPR				Dec 13, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73030BG-INFLOW  
Sampling Point: 73030BG-INFLOW  
Date Sampled: DECEMBER 9, 2002  
Lab Sample ID: FELWX-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.12	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 13, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 13, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 13, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 13, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 13, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 13, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 13, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 13, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 13, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 13, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 13, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	68.0 RPR				Dec 13, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73040BG-INFLOW  
 Sampling Point: 73040BG-INFLOW  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FET6P-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 19, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 19, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 19, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 19, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 19, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 19, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 19, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 19, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 19, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 19, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 19, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 19, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 19, 2002
Surrogates:						
NITROBENZENE-D5	1	79.0 RPR				Dec 19, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73080BG-INFLOW  
 Sampling Point: 73080BG-INFLOW  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FELXD-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 13, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 13, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 13, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 13, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 13, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 13, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 13, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 13, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 13, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 13, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 13, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 13, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 13, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	62.0 RPR				Dec 13, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73095BG-INFLOW  
Sampling Point: 73095BG-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQLT-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	2.5	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
Surrogates:						
NITROBENZENE-D5	1	88.0 RPR				Dec 18, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73100BG-INFLOW  
 Sampling Point: 73100BG-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQF2-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	65.0 RPR				Dec 21, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73110BG-EFFLUENT  
Sampling Point: 73110BG-EFFLUENT  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQL4-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	92.0 RPR				Dec 18, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73110BG-INFLOW  
Sampling Point: 73110BG-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQL1-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.23	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	0.033 J	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	0.63	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
Surrogates:						
NITROBENZENE-D5	1	95.0 RPR				Dec 18, 2002

Qualifiers:

J The result should be considered an estimate.



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73110H-EFFLUENT  
 Sampling Point: 73110H-EFFLUENT  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQF6-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	53.0 RPR				Dec 21, 2002

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73110H-INFLOW  
Sampling Point: 73110H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQF3-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	4.5	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	0.54	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	62.0 RPR				Dec 21, 2002
<u>Prep/Method: SW3535/8321</u>						
HMX	5	ND	UG/L	0.20	0.60	Dec 22, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 22, 2002
Surrogates:						
NITROBENZENE-D5	5	0.0 RPR				Dec 22, 2002

Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73120BG-EFFLUENT  
 Sampling Point: 73120BG-EFFLUENT  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FEV9T-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 22, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 22, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 22, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 22, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 22, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 22, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 22, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 22, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 22, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 22, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 22, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 22, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 22, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 22, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 22, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 22, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	56.0 RPR				Dec 22, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73120BG-INFLOW  
 Sampling Point: 73120BG-INFLOW  
 Date Sampled: DECEMBER 12, 2002  
 Lab Sample ID: FEV9M-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.93	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	0.12	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	61.0 RPR				Dec 21, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73150BJ-INFLOW  
 Sampling Point: 73150BJ-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQFX-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	82.0 RPR				Dec 21, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73160H-INFLOW  
 Sampling Point: 73160H-INFLOW  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FEL02-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	1.0	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002
Surrogates:						
NITROBENZENE-D5	1	66.0 RPR				Dec 14, 2002
<u>Prep/Method: SW3535/8321</u>						
HMX	5	ND	UG/L	0.20	0.60	Dec 14, 2002
RDX	5	ND	UG/L	0.10	0.60	Dec 14, 2002
Surrogates:						
NITROBENZENE-D5	5	0.0 RPR				Dec 14, 2002

Comments:

8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73200H-INFLOW  
 Sampling Point: 73200H-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQK2-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 17, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 17, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 17, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 17, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 17, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 17, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 17, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 17, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 17, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 17, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 17, 2002
Surrogates:						
NITROBENZENE-D5	1	86.0 RPR				Dec 17, 2002

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Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-73250H-INFLOW  
 Sampling Point: 73250H-INFLOW  
 Date Sampled: DECEMBER 9, 2002  
 Lab Sample ID: FELOW-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Dec 27, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 14, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 14, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 14, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 14, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 14, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 14, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 14, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 14, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 14, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 14, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 14, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 14, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 14, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	70.0 RPR				Dec 14, 2002



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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73280H-INFLOW  
Sampling Point: 73280H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQKO-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.012 B	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 17, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 17, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 17, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 17, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 17, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 17, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 17, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 17, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 17, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 17, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 17, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 17, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 17, 2002
Surrogates:						
NITROBENZENE-D5	1	84.0 RPR				Dec 17, 2002

Qualifiers:

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Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-G-73500H-INFLOW  
Sampling Point: 73500H-INFLOW  
Date Sampled: DECEMBER 10, 2002  
Lab Sample ID: FEQL0-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	0.34	MG/L	0.012	0.10	Dec 20, 2002
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 18, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 18, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 18, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 18, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 18, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 18, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 18, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 18, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 18, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 18, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 18, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 18, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 18, 2002
<u>Surrogates:</u>						
NITROBENZENE-D5	1	87.0 RPR				Dec 18, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-CLUBHOUSE-EFFLUENT  
 Sampling Point: CLUBHOUSE-EFFLUENT  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQFN-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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<u>Analyte/Parameter</u>	<u>Dilution</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Date Analyzed</u>
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	81.0 RPR				Dec 21, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
 Job Name: RESIDENT WELLS 12/02  
 C of C Sampleid: BAR-G-CLUBHOUSE-INFLOW  
 Sampling Point: CLUBHOUSE-INFLOW  
 Date Sampled: DECEMBER 10, 2002  
 Lab Sample ID: FEQFM-1 Analysis Lab: QES-DEN  
 Sample Type: GROUND WATER  
 QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 353.2/353.2</u>						
NITRATE-NITRITE	1	ND	MG/L	0.012	0.10	Jan 3, 2003
<u>Prep/Method: SW3535/8321</u>						
1,3,5-TRINITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
1,3-DINITROBENZENE	1	ND	UG/L	0.023	0.12	Dec 21, 2002
2,4,6-TRINITROTOLUENE	1	ND	UG/L	0.021	0.12	Dec 21, 2002
2,4-DINITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
2,6-DINITROTOLUENE	1	ND	UG/L	0.022	0.12	Dec 21, 2002
2-AMINO-4,6-DINITROTOLUENE	1	ND	UG/L	0.036	0.12	Dec 21, 2002
2-NITROTOLUENE	1	ND	UG/L	0.026	0.12	Dec 21, 2002
3-NITROTOLUENE	1	ND	UG/L	0.027	0.12	Dec 21, 2002
4-AMINO-2,6-DINITROTOLUENE	1	ND	UG/L	0.020	0.12	Dec 21, 2002
4-NITROTOLUENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
HMX	1	ND	UG/L	0.040	0.12	Dec 21, 2002
NITROBENZENE	1	ND	UG/L	0.025	0.12	Dec 21, 2002
NITROGLYCERIN	1	ND	UG/L	0.030	0.12	Dec 21, 2002
PETN	1	ND	UG/L	0.051	0.12	Dec 21, 2002
RDX	1	ND	UG/L	0.020	0.12	Dec 21, 2002
TETRYL	1	ND	UG/L	0.024	0.12	Dec 21, 2002
Surrogates:						
NITROBENZENE-D5	1	74.0 RPR				Dec 21, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-K-TBLK1  
Sampling Point: TBLK1  
Date Sampled: DECEMBER 12, 2002  
Lab Sample ID: FEV9V-1 Analysis Lab: QES-DEN  
Sample Type: BLANK WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002
<u>Surrogates:</u>						
1,2-DICHLOROETHANE-D4	1	101.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	93.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	98.0 RPR				Dec 20, 2002
TOLUENE-D8	1	94.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-K-TBLK3  
Sampling Point: TBLK3  
Date Sampled: DECEMBER 12, 2002  
Lab Sample ID: FEV9X-1 Analysis Lab: QES-DEN  
Sample Type: BLANK WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 20, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 20, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 20, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 20, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 20, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 20, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 20, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 20, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 20, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 20, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 20, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 20, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 20, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 20, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 20, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 20, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 20, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 20, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 20, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 20, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 20, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 20, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 20, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 20, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 20, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 20, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 20, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 20, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 20, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 20, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 20, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 20, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 20, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 20, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 20, 2002
<u>Surrogates:</u>						
1,2-DICHLOROETHANE-D4	1	106.0 RPR				Dec 20, 2002
4-BROMOFLUOROBENZENE	1	94.0 RPR				Dec 20, 2002
DIBROMOFLUOROMETHANE	1	101.0 RPR				Dec 20, 2002
TOLUENE-D8	1	95.0 RPR				Dec 20, 2002

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 12/02  
C of C Sampleid: BAR-K-TBLK4  
Sampling Point: TBLK4  
Date Sampled: DECEMBER 12, 2002  
Lab Sample ID: FET67-1 Analysis Lab: QES-DEN  
Sample Type: BLANK WATER  
QC Level: QC (ADQM QC Process)

January 29, 2003  
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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 5030B/8260B</u>						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Dec 23, 2002
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Dec 23, 2002
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Dec 23, 2002
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Dec 23, 2002
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Dec 23, 2002
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Dec 23, 2002
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Dec 23, 2002
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Dec 23, 2002
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Dec 23, 2002
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Dec 23, 2002
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Dec 23, 2002
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 23, 2002
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Dec 23, 2002
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Dec 23, 2002
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Dec 23, 2002
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Dec 23, 2002
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Dec 23, 2002
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Dec 23, 2002
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Dec 23, 2002
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Dec 23, 2002
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Dec 23, 2002
ACETONE	1	ND	UG/L	2.9	10	Dec 23, 2002
BENZENE	1	ND	UG/L	0.27	1.0	Dec 23, 2002
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Dec 23, 2002
BROMOFORM	1	ND	UG/L	0.46	1.0	Dec 23, 2002
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Dec 23, 2002
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Dec 23, 2002
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Dec 23, 2002
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Dec 23, 2002
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Dec 23, 2002
CHLOROFORM	1	ND	UG/L	0.29	1.0	Dec 23, 2002
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Dec 23, 2002
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Dec 23, 2002
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Dec 23, 2002
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Dec 23, 2002
HEXANE	1	ND	UG/L	0.80	1.0	Dec 23, 2002
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Dec 23, 2002
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Dec 23, 2002
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Dec 23, 2002
STYRENE	1	ND	UG/L	0.28	1.0	Dec 23, 2002
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Dec 23, 2002
TOLUENE	1	ND	UG/L	0.26	1.0	Dec 23, 2002
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Dec 23, 2002
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Dec 23, 2002
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Dec 23, 2002
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Dec 23, 2002
<u>Surrogates:</u>						
1,2-DICHLOROETHANE-D4	1	103.0 RPR				Dec 23, 2002
4-BROMOFLUOROBENZENE	1	95.0 RPR				Dec 23, 2002
DIBROMOFLUOROMETHANE	1	103.0 RPR				Dec 23, 2002
TOLUENE-D8	1	99.0 RPR				Dec 23, 2002

Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 12/02

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Batch Identifier

Method Number: 160.1      Prep Method: 160.1      Pre-prep:  
Batch Start Date: 19DEC02  
Instrument: K80955  
Batch Number: 01

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date Sampled</u>	<u>Lab Sample ID</u>	<u>QC Level</u>
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1      QES-DEN	QC

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike: TOTAL DISSOLVED SOLIDS				102		FFCF2-1      QES-DEN
Lab Control Spike Duplicate: TOTAL DISSOLVED SOLIDS				94	8.6	FFCF2-1      QES-DEN
Method Blank: TOTAL DISSOLVED SOLIDS	ND	MG/L	5.0			FFCF2-1      QES-DEN
Replicate: TOTAL DISSOLVED SOLIDS	86.0	MG/L			14	FEV9E-1      QES-DEN

Batch Identifier

Method Number: 300.0A      Prep Method: 300.0A      Pre-prep:  
Batch Start Date: 31DEC02  
Instrument: IC3  
Batch Number: 69

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date Sampled</u>	<u>Lab Sample ID</u>	<u>QC Level</u>
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1      QES-DEN	QC

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike: CHLORIDE				97		FFJXX-1      QES-DEN
Lab Control Spike Duplicate: CHLORIDE				99	1.6	FFJXX-1      QES-DEN
Method Blank: CHLORIDE	0.99	MG/L				FFJXX-1      QES-DEN
Matrix Spike: CHLORIDE				101		FEV9E-1      QES-DEN
Matrix Spike Duplicate: CHLORIDE				111	7.8	FEV9E-1      QES-DEN

Batch Identifier

Method Number: 300.0A      Prep Method: 300.0A      Pre-prep:  
Batch Start Date: 31DEC02  
Instrument: IC3  
Batch Number: 70

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date Sampled</u>	<u>Lab Sample ID</u>	<u>QC Level</u>
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1      QES-DEN	QC



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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike: SULFATE				97		FFJX0-1 QES-DEN
Lab Control Spike Duplicate: SULFATE				99	1.3	FFJX0-1 QES-DEN
Method Blank: SULFATE	ND	MG/L	0.20			FFJX0-1 QES-DEN
Matrix Spike: SULFATE				100		FEV9E-1 QES-DEN
Matrix Spike Duplicate: SULFATE				112	9.9	FEV9E-1 QES-DEN

Batch Identifier

Method Number: 353.2      Prep Method: 353.2      Pre-prep:  
Batch Start Date: 26DEC02  
Instrument: ALPK1  
Batch Number: 61

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-30300N-INFLOW	10DEC02	FEQK6-1	QES-DEN QC
BAR-G-30300N-INFLOW-DUP	10DEC02	FEQK8-1	QES-DEN QC
BAR-G-30380N-INFLOW	10DEC02	FEQK9-1	QES-DEN QC
BAR-G-30490N-INFLOW	10DEC02	FEQLL-1	QES-DEN QC
BAR-G-72330H-INFLOW-DUP	10DEC02	FEQLQ-1	QES-DEN QC
BAR-G-72370H-INFLOW	10DEC02	FEQLE-1	QES-DEN QC
BAR-G-72450H-INFLOW	10DEC02	FEQMC-1	QES-DEN QC
BAR-G-72470H-INFLOW	10DEC02	FEQL6-1	QES-DEN QC
BAR-G-72730H-INFLOW	10DEC02	FEQK5-1	QES-DEN QC
BAR-G-72860H-INFLOW	10DEC02	FEQK4-1	QES-DEN QC
BAR-G-73095BG-INFLOW	10DEC02	FEQLT-1	QES-DEN QC
BAR-G-73110BG-INFLOW	10DEC02	FEQL1-1	QES-DEN QC
BAR-G-73200H-INFLOW	10DEC02	FEQK2-1	QES-DEN QC
BAR-G-73280H-INFLOW	10DEC02	FEQK0-1	QES-DEN QC
BAR-G-73500H-INFLOW	10DEC02	FEQL0-1	QES-DEN QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike: NITRATE-NITRITE				103		FFFFJ-1 QES-DEN
Lab Control Spike Duplicate: NITRATE-NITRITE				107	3.1	FFFFJ-1 QES-DEN
Method Blank: NITRATE-NITRITE	ND	MG/L	0.012			FFFFJ-1 QES-DEN
Matrix Spike: NITRATE-NITRITE				114		FEQK9-1 QES-DEN
Matrix Spike Duplicate: NITRATE-NITRITE				113	.55	FEQK9-1 QES-DEN

Batch Identifier

Method Number: 353.2      Prep Method: 353.2      Pre-prep:  
Batch Start Date: 02JAN03  
Instrument: ALPK1  
Batch Number: 56

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-30700N-INFLOW	09DEC02	FELX4-1	QES-DEN QC
BAR-G-30810N-INFLOW	09DEC02	FEL0G-1	QES-DEN QC
BAR-G-72520H-INFLOW	09DEC02	FELON-1	QES-DEN QC
BAR-G-72700H-INFLOW	09DEC02	FELXN-1	QES-DEN QC

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Sample Name	Date Sampled	Lab Sample ID	QC
BAR-G-72910H-INFLOW	09DEC02	FELX0-1	QES-DEN QC
BAR-G-72920H-INFLOW	09DEC02	FELW7-1	QES-DEN QC
BAR-G-73025BG-INFLOW	09DEC02	FELW9-1	QES-DEN QC
BAR-G-73030BG-INFLOW	09DEC02	FELWX-1	QES-DEN QC
BAR-G-73080BG-INFLOW	09DEC02	FELXD-1	QES-DEN QC
BAR-G-73160H-INFLOW	09DEC02	FEL02-1	QES-DEN QC
BAR-G-73250H-INFLOW	09DEC02	FEL0W-1	QES-DEN QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike: NITRATE-NITRITE				107		FFKP7-1 QES-DEN
Lab Control Spike Duplicate: NITRATE-NITRITE				109	2.2	FFKP7-1 QES-DEN
Method Blank: NITRATE-NITRITE	ND	MG/L	0.012			FFKP7-1 QES-DEN
Matrix Spike: NITRATE-NITRITE				121		FELXN-1 QES-DEN
Matrix Spike Duplicate: NITRATE-NITRITE				120	1	FELXN-1 QES-DEN

Comments:

353.2 (NITRATE-NITRITE): The matrix spike and spike duplicate recoveries were outside control limits. Lab control spike recovery met acceptance criteria.

Batch Identifier

Method Number: 353.2      Prep Method: 353.2      Pre-prep:  
Batch Start Date: 02JAN03  
Instrument: ALPK1  
Batch Number: 57

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-72040H-INFLOW	12DEC02	FET6G-1	QES-DEN QC
BAR-G-72790H-INFLOW	11DEC02	FET5P-1	QES-DEN QC
BAR-G-73040BG-INFLOW	12DEC02	FET6P-1	QES-DEN QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike: NITRATE-NITRITE				105		FFKP4-1 QES-DEN
Lab Control Spike Duplicate: NITRATE-NITRITE				105	.26	FFKP4-1 QES-DEN
Method Blank: NITRATE-NITRITE	ND	MG/L	0.012			FFKP4-1 QES-DEN
Matrix Spike: NITRATE-NITRITE				120		FEG1P-1 QES-DEN
Matrix Spike Duplicate: NITRATE-NITRITE				113		FET6G-1 QES-DEN
Matrix Spike Duplicate: NITRATE-NITRITE				120	.24	FEG1P-1 QES-DEN
Matrix Spike Duplicate: NITRATE-NITRITE				110	1.4	FET6G-1 QES-DEN

Comments:

353.2 (NITRATE-NITRITE): The matrix spike and spike duplicate recoveries were outside control limits. Lab control spike recovery met acceptance criteria.

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Batch Identifier

Method Number: 353.2      Prep Method: 353.2      Pre-prep:  
Batch Start Date: 06JAN03  
Instrument: ALPK1  
Batch Number: 74

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1 QES-DEN	QC
BAR-G-72330H-INFLOW	10DEC02	FEQFD-1 QES-DEN	QC
BAR-G-72410H-INFLOW	10DEC02	FEQF7-1 QES-DEN	QC
BAR-G-72420H-INFLOW	10DEC02	FEQGE-1 QES-DEN	QC
BAR-G-73100BG-INFLOW	10DEC02	FEQF2-1 QES-DEN	QC
BAR-G-73110H-INFLOW	10DEC02	FEQF3-1 QES-DEN	QC
BAR-G-73120BG-INFLOW	12DEC02	FEV9M-1 QES-DEN	QC
BAR-G-73150BJ-INFLOW	10DEC02	FEQFX-1 QES-DEN	QC
BAR-G-CLUBHOUSE-INFLOW	10DEC02	FEQFM-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike: NITRATE-NITRITE				99		FFN8E-1 QES-DEN
Lab Control Spike Duplicate: NITRATE-NITRITE				96	3.3	FFN8E-1 QES-DEN
Method Blank: NITRATE-NITRITE	ND	MG/L	0.012			FFN8E-1 QES-DEN
Matrix Spike: NITRATE-NITRITE				90		FEL2X-1 QES-DEN
NITRATE-NITRITE				81		FEV9E-1 QES-DEN
Matrix Spike Duplicate: NITRATE-NITRITE				86	5.3	FEL2X-1 QES-DEN
NITRATE-NITRITE				87	6.3	FEV9E-1 QES-DEN

Batch Identifier

Method Number: 6010B      Prep Method: 3010A      Pre-prep:  
Batch Start Date: 16DEC02  
Instrument: 002  
Batch Number: 61

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike: ALUMINUM				107		FEX69-1 QES-DEN
BERYLLIUM				111		FEX69-1 QES-DEN
BORON				108		FEX69-1 QES-DEN
IRON				111		FEX69-1 QES-DEN
Method Blank: ALUMINUM	ND	UG/L	20.0			FEX69-1 QES-DEN
BERYLLIUM	ND	UG/L	0.22			FEX69-1 QES-DEN
BORON	ND	UG/L	5.2			FEX69-1 QES-DEN
IRON	ND	UG/L	13.0			FEX69-1 QES-DEN
Matrix Spike: ALUMINUM				103		FEV9E-1 QES-DEN
BERYLLIUM				114		FEV9E-1 QES-DEN
BORON				112		FEV9E-1 QES-DEN
IRON				106		FEV9E-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Matrix Spike Duplicate:						
ALUMINUM				101	2	FEV9E-1 QES-DEN
BERYLLIUM				111	3.1	FEV9E-1 QES-DEN
BORON				109	2.2	FEV9E-1 QES-DEN
IRON				96	2.7	FEV9E-1 QES-DEN

Comments:

6010B (BERYLLIUM): The matrix spike recovery was outside control limits. Lab control spike recovery met acceptance criteria.

6010B (BORON): The matrix spike recovery was outside control limits. Lab control spike recovery met acceptance criteria.

Batch Identifier

Method Number: 6010B      Prep Method: 3010A      Pre-prep:  
Batch Start Date: 16DEC02  
Instrument: 016  
Batch Number: 61

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
BARIUM				104		FEX69-1 QES-DEN
CHROMIUM				103		FEX69-1 QES-DEN
COBALT				98		FEX69-1 QES-DEN
COPPER				100		FEX69-1 QES-DEN
MANGANESE				103		FEX69-1 QES-DEN
NICKEL				101		FEX69-1 QES-DEN
SILVER				104		FEX69-1 QES-DEN
VANADIUM				104		FEX69-1 QES-DEN
ZINC				98		FEX69-1 QES-DEN

Method Blank:

BARIUM	ND	UG/L	1.8			FEX69-1 QES-DEN
CHROMIUM	ND	UG/L	0.74			FEX69-1 QES-DEN
COBALT	ND	UG/L	0.92			FEX69-1 QES-DEN
COPPER	ND	UG/L	0.76			FEX69-1 QES-DEN
MANGANESE	ND	UG/L	0.49			FEX69-1 QES-DEN
NICKEL	ND	UG/L	1.7			FEX69-1 QES-DEN
SILVER	ND	UG/L	0.54			FEX69-1 QES-DEN
VANADIUM	ND	UG/L	2.2			FEX69-1 QES-DEN
ZINC	ND	UG/L	6.8			FEX69-1 QES-DEN

Matrix Spike:

BARIUM				102		FEV9E-1 QES-DEN
CHROMIUM				107		FEV9E-1 QES-DEN
COBALT				100		FEV9E-1 QES-DEN
COPPER				97		FEV9E-1 QES-DEN
MANGANESE				104		FEV9E-1 QES-DEN
NICKEL				103		FEV9E-1 QES-DEN
SILVER				102		FEV9E-1 QES-DEN
VANADIUM				104		FEV9E-1 QES-DEN
ZINC				89		FEV9E-1 QES-DEN

Matrix Spike Duplicate:

BARIUM				103	.48	FEV9E-1 QES-DEN
CHROMIUM				107	.25	FEV9E-1 QES-DEN
COBALT				100	.38	FEV9E-1 QES-DEN
COPPER				98	.68	FEV9E-1 QES-DEN
MANGANESE				105	.41	FEV9E-1 QES-DEN
NICKEL				103	.08	FEV9E-1 QES-DEN
SILVER				103	.12	FEV9E-1 QES-DEN
VANADIUM				105	.34	FEV9E-1 QES-DEN
ZINC				90	1.3	FEV9E-1 QES-DEN

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Batch Identifier

Method Number: 6020      Prep Method: 3010      Pre-prep:  
Batch Start Date: 18DEC02  
Instrument: 004  
Batch Number: 26

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date Sampled</u>	<u>Lab Sample ID</u>	<u>QC Level</u>
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1      QES-DEN	QC

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
<b>Lab Control Spike:</b>						
ANTIMONY				100		FE228-1      QES-DEN
ARSENIC				99		FE228-1      QES-DEN
CADMIUM				99		FE228-1      QES-DEN
LEAD				102		FE228-1      QES-DEN
SELENIUM				99		FE228-1      QES-DEN
THALLIUM				101		FE228-1      QES-DEN
<b>Method Blank:</b>						
ANTIMONY	ND	UG/L	0.040			FE228-1      QES-DEN
ARSENIC	ND	UG/L	0.061			FE228-1      QES-DEN
CADMIUM	ND	UG/L	0.022			FE228-1      QES-DEN
LEAD	ND	UG/L	0.15			FE228-1      QES-DEN
SELENIUM	ND	UG/L	0.19			FE228-1      QES-DEN
THALLIUM	ND	UG/L	0.015			FE228-1      QES-DEN
<b>Matrix Spike:</b>						
ANTIMONY				103		FEV9E-1      QES-DEN
ARSENIC				100		FEV9E-1      QES-DEN
CADMIUM				100		FEV9E-1      QES-DEN
LEAD				105		FEV9E-1      QES-DEN
SELENIUM				100		FEV9E-1      QES-DEN
THALLIUM				104		FEV9E-1      QES-DEN
<b>Matrix Spike Duplicate:</b>						
ANTIMONY				102	.55	FEV9E-1      QES-DEN
ARSENIC				101	.97	FEV9E-1      QES-DEN
CADMIUM				102	1.5	FEV9E-1      QES-DEN
LEAD				107	1.7	FEV9E-1      QES-DEN
SELENIUM				101	1.5	FEV9E-1      QES-DEN
THALLIUM				107	2.5	FEV9E-1      QES-DEN

Batch Identifier

Method Number: 7470A      Prep Method: 7470A      Pre-prep:  
Batch Start Date: 16DEC02  
Instrument: 018  
Batch Number: 14

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date Sampled</u>	<u>Lab Sample ID</u>	<u>QC Level</u>
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1      QES-DEN	QC

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
<b>Lab Control Spike:</b>						
MERCURY				101		FE04W-1      QES-DEN
<b>Lab Control Spike Duplicate:</b>						
MERCURY				103	1.4	FE04W-1      QES-DEN
<b>Method Blank:</b>						
MERCURY	ND	UG/L	0.015			FE04W-1      QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Matrix Spike:						
MERCURY				93		FEL2X-1 QES-DEN
MERCURY				99		FEV9E-1 QES-DEN
Matrix Spike Duplicate:						
MERCURY				98	5.4	FEL2X-1 QES-DEN
MERCURY				100	.6	FEV9E-1 QES-DEN

Batch Identifier  
Method Number: 8260B Prep Method: 5030B Pre-prep:  
Batch Start Date: 20DEC02  
Instrument: G  
Batch Number: 33

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-30810N-INFLOW	09DEC02	FEL0G-1 QES-DEN	QC
BAR-G-30900N-INFLOW	09DEC02	FELXE-1 QES-DEN	QC
BAR-G-72700H-INFLOW	09DEC02	FELXN-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,1-DICHLOROETHENE				80		FE8A7-1 QES-DEN
BENZENE				99		FE8A7-1 QES-DEN
CHLOROENZENE				105		FE8A7-1 QES-DEN
TOLUENE				111		FE8A7-1 QES-DEN
TRICHLOROETHENE				98		FE8A7-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				104		FE8A7-1 QES-DEN
4-BROMOFLUOROBENZENE				102		FE8A7-1 QES-DEN
DIBROMOFLUOROMETHANE				97		FE8A7-1 QES-DEN
TOLUENE-D8				104		FE8A7-1 QES-DEN

Method Blank:

1,1,1,2-TETRACHLOROETHANE	ND	UG/L	0.28			FE8A7-1 QES-DEN
1,1,1-TRICHLOROETHANE	ND	UG/L	0.32			FE8A7-1 QES-DEN
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	0.50			FE8A7-1 QES-DEN
1,1,2-TRICHLOROETHANE	ND	UG/L	0.41			FE8A7-1 QES-DEN
1,1-DICHLOROETHANE	ND	UG/L	0.29			FE8A7-1 QES-DEN
1,1-DICHLOROETHENE	ND	UG/L	0.31			FE8A7-1 QES-DEN
1,2,3-TRICHLOROPROPANE	ND	UG/L	0.76			FE8A7-1 QES-DEN
1,2,4-TRICHLOROBENZENE	ND	UG/L	0.63			FE8A7-1 QES-DEN
1,2,4-TRIMETHYLBENZENE	ND	UG/L	0.30			FE8A7-1 QES-DEN
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	UG/L	0.49			FE8A7-1 QES-DEN
1,2-DIBROMOETHANE (EDB)	ND	UG/L	0.46			FE8A7-1 QES-DEN
1,2-DICHLOROBENZENE	ND	UG/L	0.30			FE8A7-1 QES-DEN
1,2-DICHLOROETHANE	ND	UG/L	0.43			FE8A7-1 QES-DEN
1,2-DICHLOROETHENE (TOTAL)	ND	UG/L	0.54			FE8A7-1 QES-DEN
1,2-DICHLOROPROPANE	ND	UG/L	0.38			FE8A7-1 QES-DEN
1,3,5-TRIMETHYLBENZENE	ND	UG/L	0.31			FE8A7-1 QES-DEN
1,3-DICHLOROBENZENE	ND	UG/L	0.30			FE8A7-1 QES-DEN
1,3-DICHLOROPROPANE	ND	UG/L	0.37			FE8A7-1 QES-DEN
1,4-DICHLOROBENZENE	ND	UG/L	0.31			FE8A7-1 QES-DEN
2-BUTANONE (MEK)	ND	UG/L	2.4			FE8A7-1 QES-DEN
4-METHYL-2-PENTANONE	ND	UG/L	1.8			FE8A7-1 QES-DEN
ACETONE	ND	UG/L	2.9			FE8A7-1 QES-DEN
BENZENE	ND	UG/L	0.27			FE8A7-1 QES-DEN
BROMODICHLOROMETHANE	ND	UG/L	0.35			FE8A7-1 QES-DEN
BROMOFORM	ND	UG/L	0.46			FE8A7-1 QES-DEN
BROMOMETHANE	ND	UG/L	0.28			FE8A7-1 QES-DEN
CARBON DISULFIDE	ND	UG/L	0.67			FE8A7-1 QES-DEN
CARBON TETRACHLORIDE	ND	UG/L	0.35			FE8A7-1 QES-DEN
CHLOROENZENE	ND	UG/L	0.24			FE8A7-1 QES-DEN
CHLOROETHANE	ND	UG/L	0.26			FE8A7-1 QES-DEN
CHLOROFORM	ND	UG/L	0.29			FE8A7-1 QES-DEN
CHLOROMETHANE	ND	UG/L	0.26			FE8A7-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Method Blank:						
DIBROMOCHLOROMETHANE	ND	UG/L	0.37			FE8A7-1 QES-DEN
DICHLORODIFLUOROMETHANE	ND	UG/L	0.44			FE8A7-1 QES-DEN
ETHYLBENZENE	ND	UG/L	0.51			FE8A7-1 QES-DEN
HEXANE	ND	UG/L	0.80			FE8A7-1 QES-DEN
METHYL TERT-BUTYL ETHER	ND	UG/L	0.88			FE8A7-1 QES-DEN
METHYLENE CHLORIDE	ND	UG/L	0.86			FE8A7-1 QES-DEN
NAPHTHALENE	ND	UG/L	0.78			FE8A7-1 QES-DEN
STYRENE	ND	UG/L	0.28			FE8A7-1 QES-DEN
TETRACHLOROETHENE	ND	UG/L	0.27			FE8A7-1 QES-DEN
TOLUENE	ND	UG/L	0.26			FE8A7-1 QES-DEN
TRICHLOROETHENE	ND	UG/L	0.24			FE8A7-1 QES-DEN
TRICHLOROFLUOROMETHANE	ND	UG/L	0.43			FE8A7-1 QES-DEN
VINYL CHLORIDE	ND	UG/L	0.26			FE8A7-1 QES-DEN
XYLENES (TOTAL)	ND	UG/L	0.73			FE8A7-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				111		FE8A7-1 QES-DEN
4-BROMOFLUOROBENZENE				96		FE8A7-1 QES-DEN
DIBROMOFLUOROMETHANE				100		FE8A7-1 QES-DEN
TOLUENE-D8				100		FE8A7-1 QES-DEN

Matrix Spike:

1,1-DICHLOROETHENE				81		FELXN-1 QES-DEN
BENZENE				102		FELXN-1 QES-DEN
CHLOROENZENE				103		FELXN-1 QES-DEN
TOLUENE				110		FELXN-1 QES-DEN
TRICHLOROETHENE				102		FELXN-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				106		FELXN-1 QES-DEN
4-BROMOFLUOROBENZENE				100		FELXN-1 QES-DEN
DIBROMOFLUOROMETHANE				99		FELXN-1 QES-DEN
TOLUENE-D8				100		FELXN-1 QES-DEN

Matrix Spike Duplicate:

1,1-DICHLOROETHENE				83	2.4	FELXN-1 QES-DEN
BENZENE				106	3.3	FELXN-1 QES-DEN
CHLOROENZENE				105	2.8	FELXN-1 QES-DEN
TOLUENE				109	.89	FELXN-1 QES-DEN
TRICHLOROETHENE				103	.7	FELXN-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				109	3	FELXN-1 QES-DEN
4-BROMOFLUOROBENZENE				99	1.3	FELXN-1 QES-DEN
DIBROMOFLUOROMETHANE				103	3.2	FELXN-1 QES-DEN
TOLUENE-D8				101	.61	FELXN-1 QES-DEN

Batch Identifier

Method Number: 8260B      Prep Method: 5030B      Pre-prep:  
Batch Start Date: 22DEC02  
Instrument: R1  
Batch Number: 47

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1	QES-DEN QC
BAR-G-72330H-INFLOW	10DEC02	FEQFD-1	QES-DEN QC
BAR-G-72330H-INFLOW-DUP	10DEC02	FEQLQ-1	QES-DEN QC
BAR-G-72370H-INFLOW	10DEC02	FEQLE-1	QES-DEN QC
BAR-G-72410H-INFLOW	10DEC02	FEQF7-1	QES-DEN QC
BAR-K-TBLK1	12DEC02	FEV9V-1	QES-DEN QC
BAR-K-TBLK3	12DEC02	FEV9X-1	QES-DEN QC

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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
1,1-DICHLOROETHENE				89		FFCKD-1 QES-DEN
BENZENE				99		FFCKD-1 QES-DEN
CHLOROBENZENE				99		FFCKD-1 QES-DEN
TOLUENE				98		FFCKD-1 QES-DEN
TRICHLOROETHENE				100		FFCKD-1 QES-DEN
Surrogates:						
1,2-DICHLOROETHANE-D4				95		FFCKD-1 QES-DEN
4-BROMOFLUOROBENZENE				92		FFCKD-1 QES-DEN
DIBROMOFLUOROMETHANE				98		FFCKD-1 QES-DEN
TOLUENE-D8				95		FFCKD-1 QES-DEN
Lab Control Spike Duplicate:						
1,1-DICHLOROETHENE				90	.96	FFCKD-1 QES-DEN
BENZENE				100	.79	FFCKD-1 QES-DEN
CHLOROBENZENE				102	2.9	FFCKD-1 QES-DEN
TOLUENE				101	3.8	FFCKD-1 QES-DEN
TRICHLOROETHENE				102	2.1	FFCKD-1 QES-DEN
Surrogates:						
1,2-DICHLOROETHANE-D4				93	2.9	FFCKD-1 QES-DEN
4-BROMOFLUOROBENZENE				92	.9	FFCKD-1 QES-DEN
DIBROMOFLUOROMETHANE				93	4.5	FFCKD-1 QES-DEN
TOLUENE-D8				97	2.2	FFCKD-1 QES-DEN
Method Blank:						
1,1,1,2-TETRACHLOROETHANE	ND	UG/L	0.28			FFCKD-1 QES-DEN
1,1,1-TRICHLOROETHANE	ND	UG/L	0.32			FFCKD-1 QES-DEN
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	0.50			FFCKD-1 QES-DEN
1,1,2-TRICHLOROETHANE	ND	UG/L	0.41			FFCKD-1 QES-DEN
1,1-DICHLOROETHANE	ND	UG/L	0.29			FFCKD-1 QES-DEN
1,1-DICHLOROETHENE	ND	UG/L	0.31			FFCKD-1 QES-DEN
1,2,3-TRICHLOROPROPANE	ND	UG/L	0.76			FFCKD-1 QES-DEN
1,2,4-TRICHLOROBENZENE	ND	UG/L	0.63			FFCKD-1 QES-DEN
1,2,4-TRIMETHYLBENZENE	ND	UG/L	0.30			FFCKD-1 QES-DEN
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	UG/L	0.49			FFCKD-1 QES-DEN
1,2-DIBROMOETHANE (EDB)	ND	UG/L	0.46			FFCKD-1 QES-DEN
1,2-DICHLOROBENZENE	ND	UG/L	0.30			FFCKD-1 QES-DEN
1,2-DICHLOROETHANE	ND	UG/L	0.43			FFCKD-1 QES-DEN
1,2-DICHLOROETHENE (TOTAL)	ND	UG/L	0.54			FFCKD-1 QES-DEN
1,2-DICHLOROPROPANE	ND	UG/L	0.38			FFCKD-1 QES-DEN
1,3,5-TRIMETHYLBENZENE	ND	UG/L	0.31			FFCKD-1 QES-DEN
1,3-DICHLOROBENZENE	ND	UG/L	0.30			FFCKD-1 QES-DEN
1,3-DICHLOROPROPANE	ND	UG/L	0.37			FFCKD-1 QES-DEN
1,4-DICHLOROBENZENE	ND	UG/L	0.31			FFCKD-1 QES-DEN
2-BUTANONE (MEK)	ND	UG/L	2.4			FFCKD-1 QES-DEN
4-METHYL-2-PENTANONE	ND	UG/L	1.8			FFCKD-1 QES-DEN
ACETONE	ND	UG/L	2.9			FFCKD-1 QES-DEN
BENZENE	ND	UG/L	0.27			FFCKD-1 QES-DEN
BROMODICHLOROMETHANE	ND	UG/L	0.35			FFCKD-1 QES-DEN
BROMOFORM	ND	UG/L	0.46			FFCKD-1 QES-DEN
BROMOMETHANE	ND	UG/L	0.28			FFCKD-1 QES-DEN
CARBON DISULFIDE	ND	UG/L	0.67			FFCKD-1 QES-DEN
CARBON TETRACHLORIDE	ND	UG/L	0.35			FFCKD-1 QES-DEN
CHLOROBENZENE	ND	UG/L	0.24			FFCKD-1 QES-DEN
CHLOROETHANE	ND	UG/L	0.26			FFCKD-1 QES-DEN
CHLOROFORM	ND	UG/L	0.29			FFCKD-1 QES-DEN
CHLOROMETHANE	ND	UG/L	0.26			FFCKD-1 QES-DEN
DIBROMOCHLOROMETHANE	ND	UG/L	0.37			FFCKD-1 QES-DEN
DICHLORODIFLUOROMETHANE	ND	UG/L	0.44			FFCKD-1 QES-DEN
ETHYLBENZENE	ND	UG/L	0.51			FFCKD-1 QES-DEN
HEXANE	ND	UG/L	0.80			FFCKD-1 QES-DEN
METHYL TERT-BUTYL ETHER	ND	UG/L	0.88			FFCKD-1 QES-DEN
METHYLENE CHLORIDE	ND	UG/L	0.86			FFCKD-1 QES-DEN
NAPHTHALENE	ND	UG/L	0.78			FFCKD-1 QES-DEN



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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Method Blank:						
STYRENE	ND	UG/L	0.28			FFCKD-1 QES-DEN
TETRACHLOROETHENE	ND	UG/L	0.27			FFCKD-1 QES-DEN
TOLUENE	ND	UG/L	0.26			FFCKD-1 QES-DEN
TRICHLOROETHENE	ND	UG/L	0.24			FFCKD-1 QES-DEN
TRICHLOROFLUOROMETHANE	ND	UG/L	0.43			FFCKD-1 QES-DEN
VINYL CHLORIDE	ND	UG/L	0.26			FFCKD-1 QES-DEN
XYLENES (TOTAL)	ND	UG/L	0.73			FFCKD-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				99		FFCKD-1 QES-DEN
4-BROMOFLUOROBENZENE				94		FFCKD-1 QES-DEN
DIBROMOFLUOROMETHANE				98		FFCKD-1 QES-DEN
TOLUENE-D8				98		FFCKD-1 QES-DEN

Matrix Spike:

1,1-DICHLOROETHENE				96		FEV9E-1 QES-DEN
BENZENE				104		FEV9E-1 QES-DEN
CHLOROENZENE				103		FEV9E-1 QES-DEN
TOLUENE				106		FEV9E-1 QES-DEN
TRICHLOROETHENE				105		FEV9E-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				99		FEV9E-1 QES-DEN
4-BROMOFLUOROBENZENE				99		FEV9E-1 QES-DEN
DIBROMOFLUOROMETHANE				96		FEV9E-1 QES-DEN
TOLUENE-D8				97		FEV9E-1 QES-DEN

Matrix Spike Duplicate:

1,1-DICHLOROETHENE				101	4.5	FEV9E-1 QES-DEN
BENZENE				108	4.4	FEV9E-1 QES-DEN
CHLOROENZENE				107	4	FEV9E-1 QES-DEN
TOLUENE				103	2.3	FEV9E-1 QES-DEN
TRICHLOROETHENE				109	4	FEV9E-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				102	3.4	FEV9E-1 QES-DEN
4-BROMOFLUOROBENZENE				94	4.4	FEV9E-1 QES-DEN
DIBROMOFLUOROMETHANE				98	1.9	FEV9E-1 QES-DEN
TOLUENE-D8				95	2.6	FEV9E-1 QES-DEN

Batch Identifier

Method Number: 8260B      Prep Method: 5030B      Pre-prep:  
Batch Start Date: 23DEC02  
Instrument: S  
Batch Number: 58

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date</u>	<u>Sampled</u>	<u>Lab Sample ID</u>	<u>QC</u>	<u>Level</u>
BAR-G-72040H-INFLOW	12DEC02	FET6G-1	QES-DEN	QC	
BAR-G-72790H-INFLOW	11DEC02	FET5P-1	QES-DEN	QC	

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
1,1-DICHLOROETHENE				75		FFDKF-1 QES-DEN
BENZENE				91		FFDKF-1 QES-DEN
CHLOROENZENE				92		FFDKF-1 QES-DEN
TOLUENE				83		FFDKF-1 QES-DEN
TRICHLOROETHENE				99		FFDKF-1 QES-DEN

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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
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Lab Control Spike:

Surrogates:

1,2-DICHLOROETHANE-D4				87		FFDKF-1 QES-DEN
4-BROMOFLUOROBENZENE				84		FFDKF-1 QES-DEN
DIBROMOFLUOROMETHANE				106		FFDKF-1 QES-DEN
TOLUENE-D8				92		FFDKF-1 QES-DEN

Method Blank:

1,1,1,2-TETRACHLOROETHANE	ND	UG/L	0.28			FFDKF-1 QES-DEN
1,1,1-TRICHLOROETHANE	ND	UG/L	0.32			FFDKF-1 QES-DEN
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	0.50			FFDKF-1 QES-DEN
1,1,2-TRICHLOROETHANE	ND	UG/L	0.41			FFDKF-1 QES-DEN
1,1-DICHLOROETHANE	ND	UG/L	0.29			FFDKF-1 QES-DEN
1,1-DICHLOROETHENE	ND	UG/L	0.31			FFDKF-1 QES-DEN
1,2,3-TRICHLOROPROPANE	ND	UG/L	0.76			FFDKF-1 QES-DEN
1,2,4-TRICHLOROBENZENE	ND	UG/L	0.63			FFDKF-1 QES-DEN
1,2,4-TRIMETHYLBENZENE	ND	UG/L	0.30			FFDKF-1 QES-DEN
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	UG/L	0.49			FFDKF-1 QES-DEN
1,2-DIBROMOETHANE (EDB)	ND	UG/L	0.46			FFDKF-1 QES-DEN
1,2-DICHLOROBENZENE	ND	UG/L	0.30			FFDKF-1 QES-DEN
1,2-DICHLOROETHANE	ND	UG/L	0.43			FFDKF-1 QES-DEN
1,2-DICHLOROETHENE (TOTAL)	ND	UG/L	0.54			FFDKF-1 QES-DEN
1,2-DICHLOROPROPANE	ND	UG/L	0.38			FFDKF-1 QES-DEN
1,3,5-TRIMETHYLBENZENE	ND	UG/L	0.31			FFDKF-1 QES-DEN
1,3-DICHLOROBENZENE	ND	UG/L	0.30			FFDKF-1 QES-DEN
1,3-DICHLOROPROPANE	ND	UG/L	0.37			FFDKF-1 QES-DEN
1,4-DICHLOROBENZENE	ND	UG/L	0.31			FFDKF-1 QES-DEN
2-BUTANONE (MEK)	ND	UG/L	2.4			FFDKF-1 QES-DEN
4-METHYL-2-PENTANONE	ND	UG/L	1.8			FFDKF-1 QES-DEN
ACETONE	ND	UG/L	2.9			FFDKF-1 QES-DEN
BENZENE	ND	UG/L	0.27			FFDKF-1 QES-DEN
BROMODICHLOROMETHANE	ND	UG/L	0.35			FFDKF-1 QES-DEN
BROMOFORM	ND	UG/L	0.46			FFDKF-1 QES-DEN
BROMOMETHANE	ND	UG/L	0.28			FFDKF-1 QES-DEN
CARBON DISULFIDE	ND	UG/L	0.67			FFDKF-1 QES-DEN
CARBON TETRACHLORIDE	ND	UG/L	0.35			FFDKF-1 QES-DEN
CHLOROBENZENE	ND	UG/L	0.24			FFDKF-1 QES-DEN
CHLOROETHANE	ND	UG/L	0.26			FFDKF-1 QES-DEN
CHLOROFORM	ND	UG/L	0.29			FFDKF-1 QES-DEN
CHLOROMETHANE	ND	UG/L	0.26			FFDKF-1 QES-DEN
DIBROMOCHLOROMETHANE	ND	UG/L	0.37			FFDKF-1 QES-DEN
DICHLORODIFLUOROMETHANE	ND	UG/L	0.44			FFDKF-1 QES-DEN
ETHYLBENZENE	ND	UG/L	0.51			FFDKF-1 QES-DEN
HEXANE	ND	UG/L	0.80			FFDKF-1 QES-DEN
METHYL TERT-BUTYL ETHER	ND	UG/L	0.88			FFDKF-1 QES-DEN
METHYLENE CHLORIDE	ND	UG/L	0.86			FFDKF-1 QES-DEN
NAPHTHALENE	ND	UG/L	0.78			FFDKF-1 QES-DEN
STYRENE	ND	UG/L	0.28			FFDKF-1 QES-DEN
TETRACHLOROETHENE	ND	UG/L	0.27			FFDKF-1 QES-DEN
TOLUENE	ND	UG/L	0.26			FFDKF-1 QES-DEN
TRICHLOROETHENE	ND	UG/L	0.24			FFDKF-1 QES-DEN
TRICHLOROFLUOROMETHANE	ND	UG/L	0.43			FFDKF-1 QES-DEN
VINYL CHLORIDE	ND	UG/L	0.26			FFDKF-1 QES-DEN
XYLENES (TOTAL)	ND	UG/L	0.73			FFDKF-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				98		FFDKF-1 QES-DEN
4-BROMOFLUOROBENZENE				87		FFDKF-1 QES-DEN
DIBROMOFLUOROMETHANE				115		FFDKF-1 QES-DEN
TOLUENE-D8				102		FFDKF-1 QES-DEN

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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Matrix Spike:						
1,1-DICHLOROETHENE				70		FET6G-1 QES-DEN
BENZENE				95		FET6G-1 QES-DEN
CHLOROBENZENE				93		FET6G-1 QES-DEN
TOLUENE				80		FET6G-1 QES-DEN
TRICHLOROETHENE				106		FET6G-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				89		FET6G-1 QES-DEN
4-BROMOFLUOROBENZENE				84		FET6G-1 QES-DEN
DIBROMOFLUOROMETHANE				114		FET6G-1 QES-DEN
TOLUENE-D8				92		FET6G-1 QES-DEN

Matrix Spike Duplicate:

1,1-DICHLOROETHENE				73	4.4	FET6G-1 QES-DEN
BENZENE				98	2.9	FET6G-1 QES-DEN
CHLOROBENZENE				94	.98	FET6G-1 QES-DEN
TOLUENE				81	1.7	FET6G-1 QES-DEN
TRICHLOROETHENE				110	3.8	FET6G-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				88	1.3	FET6G-1 QES-DEN
4-BROMOFLUOROBENZENE				81	3.7	FET6G-1 QES-DEN
DIBROMOFLUOROMETHANE				114	.3	FET6G-1 QES-DEN
TOLUENE-D8				88	4.4	FET6G-1 QES-DEN

Comments:

8260B (TOLUENE): The matrix spike recovery was outside control limits. Lab control spike recovery met acceptance criteria.

Batch Identifier

Method Number: 8260B      Prep Method: 5030B      Pre-prep:  
Batch Start Date: 24DEC02  
Instrument: S  
Batch Number: 09

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date</u>	<u>Sampled</u>	<u>Lab Sample ID</u>	<u>QC</u>
BAR-G-72040H-INFLOW	12DEC02		FET6G-2	QES-DEN
BAR-K-TBLK4	12DEC02		FET67-1	QES-DEN
				QC
				QC

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
1,1-DICHLOROETHENE				78		FFD7H-1 QES-DEN
BENZENE				100		FFD7H-1 QES-DEN
CHLOROBENZENE				95		FFD7H-1 QES-DEN
TOLUENE				98		FFD7H-1 QES-DEN
TRICHLOROETHENE				102		FFD7H-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				102		FFD7H-1 QES-DEN
4-BROMOFLUOROBENZENE				97		FFD7H-1 QES-DEN
DIBROMOFLUOROMETHANE				102		FFD7H-1 QES-DEN
TOLUENE-D8				100		FFD7H-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike Duplicate:						
1,1-DICHLOROETHENE				78	.38	FFD7H-1 QES-DEN
BENZENE				100	.42	FFD7H-1 QES-DEN
CHLOROENZENE				94	.99	FFD7H-1 QES-DEN
TOLUENE				98	.42	FFD7H-1 QES-DEN
TRICHLOROETHENE				102	.67	FFD7H-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				102	.07	FFD7H-1 QES-DEN
4-BROMOFLUOROBENZENE				94	2.8	FFD7H-1 QES-DEN
DIBROMOFLUOROMETHANE				105	2.3	FFD7H-1 QES-DEN
TOLUENE-D8				97	3.5	FFD7H-1 QES-DEN

Method Blank:

1,1,1,2-TETRACHLOROETHANE	ND	UG/L	0.28			FFD7H-1 QES-DEN
1,1,1-TRICHLOROETHANE	ND	UG/L	0.32			FFD7H-1 QES-DEN
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	0.50			FFD7H-1 QES-DEN
1,1,2-TRICHLOROETHANE	ND	UG/L	0.41			FFD7H-1 QES-DEN
1,1-DICHLOROETHANE	ND	UG/L	0.29			FFD7H-1 QES-DEN
1,1-DICHLOROETHENE	ND	UG/L	0.31			FFD7H-1 QES-DEN
1,2,3-TRICHLOROPROPANE	ND	UG/L	0.76			FFD7H-1 QES-DEN
1,2,4-TRICHLOROBENZENE	ND	UG/L	0.63			FFD7H-1 QES-DEN
1,2,4-TRIMETHYLBENZENE	ND	UG/L	0.30			FFD7H-1 QES-DEN
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	UG/L	0.49			FFD7H-1 QES-DEN
1,2-DIBROMOETHANE (EDB)	ND	UG/L	0.46			FFD7H-1 QES-DEN
1,2-DICHLOROBENZENE	ND	UG/L	0.30			FFD7H-1 QES-DEN
1,2-DICHLOROETHANE	ND	UG/L	0.43			FFD7H-1 QES-DEN
1,2-DICHLOROETHENE (TOTAL)	ND	UG/L	0.54			FFD7H-1 QES-DEN
1,2-DICHLOROPROPANE	ND	UG/L	0.38			FFD7H-1 QES-DEN
1,3,5-TRIMETHYLBENZENE	ND	UG/L	0.31			FFD7H-1 QES-DEN
1,3-DICHLOROBENZENE	ND	UG/L	0.30			FFD7H-1 QES-DEN
1,3-DICHLOROPROPANE	ND	UG/L	0.37			FFD7H-1 QES-DEN
1,4-DICHLOROBENZENE	ND	UG/L	0.31			FFD7H-1 QES-DEN
2-BUTANONE (MEK)	ND	UG/L	2.4			FFD7H-1 QES-DEN
4-METHYL-2-PENTANONE	ND	UG/L	1.8			FFD7H-1 QES-DEN
ACETONE	ND	UG/L	2.9			FFD7H-1 QES-DEN
BENZENE	ND	UG/L	0.27			FFD7H-1 QES-DEN
BROMODICHLOROMETHANE	ND	UG/L	0.35			FFD7H-1 QES-DEN
BROMOFORM	ND	UG/L	0.46			FFD7H-1 QES-DEN
BROMOMETHANE	ND	UG/L	0.28			FFD7H-1 QES-DEN
CARBON DISULFIDE	ND	UG/L	0.67			FFD7H-1 QES-DEN
CARBON TETRACHLORIDE	ND	UG/L	0.35			FFD7H-1 QES-DEN
CHLOROENZENE	ND	UG/L	0.24			FFD7H-1 QES-DEN
CHLOROETHANE	ND	UG/L	0.26			FFD7H-1 QES-DEN
CHLOROFORM	ND	UG/L	0.29			FFD7H-1 QES-DEN
CHLOROMETHANE	ND	UG/L	0.26			FFD7H-1 QES-DEN
DIBROMOCHLOROMETHANE	ND	UG/L	0.37			FFD7H-1 QES-DEN
DICHLORODIFLUOROMETHANE	ND	UG/L	0.44			FFD7H-1 QES-DEN
ETHYLBENZENE	ND	UG/L	0.51			FFD7H-1 QES-DEN
HEXANE	ND	UG/L	0.80			FFD7H-1 QES-DEN
METHYL TERT-BUTYL ETHER	ND	UG/L	0.88			FFD7H-1 QES-DEN
METHYLENE CHLORIDE	ND	UG/L	0.86			FFD7H-1 QES-DEN
NAPHTHALENE	ND	UG/L	0.78			FFD7H-1 QES-DEN
STYRENE	ND	UG/L	0.28			FFD7H-1 QES-DEN
TETRACHLOROETHENE	ND	UG/L	0.27			FFD7H-1 QES-DEN
TOLUENE	ND	UG/L	0.26			FFD7H-1 QES-DEN
TRICHLOROETHENE	ND	UG/L	0.24			FFD7H-1 QES-DEN
TRICHLOROFLUOROMETHANE	ND	UG/L	0.43			FFD7H-1 QES-DEN
VINYL CHLORIDE	ND	UG/L	0.26			FFD7H-1 QES-DEN
XYLENES (TOTAL)	ND	UG/L	0.73			FFD7H-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				105		FFD7H-1 QES-DEN
4-BROMOFLUOROBENZENE				97		FFD7H-1 QES-DEN
DIBROMOFLUOROMETHANE				103		FFD7H-1 QES-DEN
TOLUENE-D8				98		FFD7H-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Matrix Spike:						
1,1-DICHLOROETHENE				75		FEQJE-1 QES-DEN
BENZENE				87		FEQJE-1 QES-DEN
CHLOROBENZENE				98		FEQJE-1 QES-DEN
TOLUENE				102		FEQJE-1 QES-DEN
TRICHLOROETHENE				101		FEQJE-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				99		FEQJE-1 QES-DEN
4-BROMOFLUOROBENZENE				99		FEQJE-1 QES-DEN
DIBROMOFLUOROMETHANE				102		FEQJE-1 QES-DEN
TOLUENE-D8				104		FEQJE-1 QES-DEN

Matrix Spike Duplicate:

1,1-DICHLOROETHENE				70	7.9	FEQJE-1 QES-DEN
BENZENE				89	.44	FEQJE-1 QES-DEN
CHLOROBENZENE				96	2	FEQJE-1 QES-DEN
TOLUENE				99	3.5	FEQJE-1 QES-DEN
TRICHLOROETHENE				99	1.2	FEQJE-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				100	.93	FEQJE-1 QES-DEN
4-BROMOFLUOROBENZENE				96	2.4	FEQJE-1 QES-DEN
DIBROMOFLUOROMETHANE				103	.6	FEQJE-1 QES-DEN
TOLUENE-D8				102	1.6	FEQJE-1 QES-DEN

Batch Identifier

Method Number: 8321      Prep Method: SW3535      Pre-prep:  
Batch Start Date: 12DEC02  
Instrument: LCMS2  
Batch Number: 30

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-30700N-EFFLUENT	09DEC02	FELX9-1 QES-DEN	QC
BAR-G-30700N-INFLOW	09DEC02	FELX4-1 QES-DEN	QC
BAR-G-30700N-INFLOW	09DEC02	FELX4-2 QES-DEN	QC
BAR-G-30810N-EFFLUENT	09DEC02	FEL0K-1 QES-DEN	QC
BAR-G-30810N-INFLOW	09DEC02	FEL0G-1 QES-DEN	QC
BAR-G-30810N-INFLOW	09DEC02	FEL0G-2 QES-DEN	QC
BAR-G-72520H-EFFLUENT	09DEC02	FEL0R-1 QES-DEN	QC
BAR-G-72520H-INFLOW	09DEC02	FEL0N-1 QES-DEN	QC
BAR-G-72520H-INFLOW	09DEC02	FEL0N-2 QES-DEN	QC
BAR-G-72700H-EFFLUENT	09DEC02	FELXW-1 QES-DEN	QC
BAR-G-72700H-INFLOW	09DEC02	FELXN-1 QES-DEN	QC
BAR-G-72910H-INFLOW	09DEC02	FELX0-1 QES-DEN	QC
BAR-G-72920H-INFLOW	09DEC02	FELW7-1 QES-DEN	QC
BAR-G-73025BG-INFLOW	09DEC02	FELW9-1 QES-DEN	QC
BAR-G-73030BG-INFLOW	09DEC02	FELWX-1 QES-DEN	QC
BAR-G-73080BG-INFLOW	09DEC02	FELXD-1 QES-DEN	QC
BAR-G-73160H-INFLOW	09DEC02	FEL02-1 QES-DEN	QC
BAR-G-73160H-INFLOW	09DEC02	FEL02-2 QES-DEN	QC
BAR-G-73250H-INFLOW	09DEC02	FEL0W-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,3,5-TRINITROBENZENE				98		FEN4W-1 QES-DEN
1,3-DINITROBENZENE				104		FEN4W-1 QES-DEN
2,4,6-TRINITROTOLUENE				82		FEN4W-1 QES-DEN
2,4-DINITROTOLUENE				102		FEN4W-1 QES-DEN
2,6-DINITROTOLUENE				105		FEN4W-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				106		FEN4W-1 QES-DEN
2-NITROTOLUENE				48		FEN4W-1 QES-DEN
3-NITROTOLUENE				62		FEN4W-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				102		FEN4W-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
4-NITROTOLUENE				61		FEN4W-1 QES-DEN
HMX				84		FEN4W-1 QES-DEN
NITROBENZENE				65		FEN4W-1 QES-DEN
NITROGLYCERIN				102		FEN4W-1 QES-DEN
PETN				79		FEN4W-1 QES-DEN
RDX				91		FEN4W-1 QES-DEN
TETRYL				111		FEN4W-1 QES-DEN

Surrogates:

NITROBENZENE-D5				70		FEN4W-1 QES-DEN
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Method Blank:

1,3,5-TRINITROBENZENE	ND	UG/L	0.025			FEN4W-1 QES-DEN
1,3-DINITROBENZENE	ND	UG/L	0.023			FEN4W-1 QES-DEN
2,4,6-TRINITROTOLUENE	ND	UG/L	0.021			FEN4W-1 QES-DEN
2,4-DINITROTOLUENE	ND	UG/L	0.026			FEN4W-1 QES-DEN
2,6-DINITROTOLUENE	ND	UG/L	0.022			FEN4W-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE	ND	UG/L	0.036			FEN4W-1 QES-DEN
2-NITROTOLUENE	ND	UG/L	0.026			FEN4W-1 QES-DEN
3-NITROTOLUENE	ND	UG/L	0.027			FEN4W-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE	ND	UG/L	0.020			FEN4W-1 QES-DEN
4-NITROTOLUENE	ND	UG/L	0.025			FEN4W-1 QES-DEN
HMX	ND	UG/L	0.040			FEN4W-1 QES-DEN
NITROBENZENE	ND	UG/L	0.025			FEN4W-1 QES-DEN
NITROGLYCERIN	ND	UG/L	0.030			FEN4W-1 QES-DEN
PETN	ND	UG/L	0.051			FEN4W-1 QES-DEN
RDX	ND	UG/L	0.020			FEN4W-1 QES-DEN
TETRYL	ND	UG/L	0.024			FEN4W-1 QES-DEN

Surrogates:

NITROBENZENE-D5				75		FEN4W-1 QES-DEN
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Matrix Spike:

1,3,5-TRINITROBENZENE				100		FELXN-1 QES-DEN
1,3-DINITROBENZENE				101		FELXN-1 QES-DEN
2,4,6-TRINITROTOLUENE				78		FELXN-1 QES-DEN
2,4-DINITROTOLUENE				98		FELXN-1 QES-DEN
2,6-DINITROTOLUENE				104		FELXN-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				101		FELXN-1 QES-DEN
2-NITROTOLUENE				51		FELXN-1 QES-DEN
3-NITROTOLUENE				58		FELXN-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				94		FELXN-1 QES-DEN
4-NITROTOLUENE				63		FELXN-1 QES-DEN
HMX				55		FELXN-1 QES-DEN
NITROBENZENE				57		FELXN-1 QES-DEN
NITROGLYCERIN				94		FELXN-1 QES-DEN
PETN				71		FELXN-1 QES-DEN
RDX				96		FELXN-1 QES-DEN
TETRYL				115		FELXN-1 QES-DEN

Surrogates:

NITROBENZENE-D5				58		FELXN-1 QES-DEN
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Matrix Spike Duplicate:

1,3,5-TRINITROBENZENE				90	11	FELXN-1 QES-DEN
1,3-DINITROBENZENE				103	.7	FELXN-1 QES-DEN
2,4,6-TRINITROTOLUENE				79	.46	FELXN-1 QES-DEN
2,4-DINITROTOLUENE				104	4.4	FELXN-1 QES-DEN
2,6-DINITROTOLUENE				100	5.1	FELXN-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				100	2.5	FELXN-1 QES-DEN
2-NITROTOLUENE				53	3.4	FELXN-1 QES-DEN
3-NITROTOLUENE				54	6.5	FELXN-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				95	.03	FELXN-1 QES-DEN
4-NITROTOLUENE				63	.06	FELXN-1 QES-DEN
HMX				61	10	FELXN-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Matrix Spike Duplicate:						
NITROBENZENE				52	8.5	FELXN-1 QES-DEN
NITROGLYCERIN				96	.47	FELXN-1 QES-DEN
PETN				68	5.4	FELXN-1 QES-DEN
RDX				95	2.3	FELXN-1 QES-DEN
TETRYL				114	1.8	FELXN-1 QES-DEN
Surrogates:						
NITROBENZENE-D5				56	2.4	FELXN-1 QES-DEN

Comments:

8321 (HMX): The matrix spike and spike duplicate recoveries were outside control limits. Post-digestion spike met acceptance criteria.

Batch Identifier

Method Number: 8321      Prep Method: SW3535      Pre-prep:  
Batch Start Date: 16DEC02  
Instrument: LCMS2  
Batch Number: 54

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-30300N-INFLOW	10DEC02	FEQK6-1 QES-DEN	QC
BAR-G-30300N-INFLOW-DUP	10DEC02	FEQK8-1 QES-DEN	QC
BAR-G-30380N-INFLOW	10DEC02	FEQK9-1 QES-DEN	QC
BAR-G-30380N-INFLOW	10DEC02	FEQK9-2 QES-DEN	QC
BAR-G-30490N-INFLOW	10DEC02	FEQLL-1 QES-DEN	QC
BAR-G-31345S-INFLOW	10DEC02	FEQL9-1 QES-DEN	QC
BAR-G-72330H-INFLOW-DUP	10DEC02	FEQLQ-1 QES-DEN	QC
BAR-G-72370H-EFFLUENT	10DEC02	FEQLH-1 QES-DEN	QC
BAR-G-72370H-INFLOW	10DEC02	FEQLE-1 QES-DEN	QC
BAR-G-72450H-EFFLUENT	10DEC02	FEQME-1 QES-DEN	QC
BAR-G-72450H-INFLOW	10DEC02	FEQMC-1 QES-DEN	QC
BAR-G-72470H-EFFLUENT	10DEC02	FEQL8-1 QES-DEN	QC
BAR-G-72470H-INFLOW	10DEC02	FEQL6-1 QES-DEN	QC
BAR-G-72730H-INFLOW	10DEC02	FEQK5-1 QES-DEN	QC
BAR-G-72860H-INFLOW	10DEC02	FEQK4-1 QES-DEN	QC
BAR-G-73095BG-INFLOW	10DEC02	FEQLT-1 QES-DEN	QC
BAR-G-73110BG-EFFLUENT	10DEC02	FEQL4-1 QES-DEN	QC
BAR-G-73110BG-INFLOW	10DEC02	FEQL1-1 QES-DEN	QC
BAR-G-73200H-INFLOW	10DEC02	FEQK2-1 QES-DEN	QC
BAR-G-73280H-INFLOW	10DEC02	FEQK0-1 QES-DEN	QC
BAR-G-73500H-INFLOW	10DEC02	FEQL0-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,3,5-TRINITROBENZENE				96		FEXK7-1 QES-DEN
1,3-DINITROBENZENE				92		FEXK7-1 QES-DEN
2,4,6-TRINITROTOLUENE				62		FEXK7-1 QES-DEN
2,4-DINITROTOLUENE				83		FEXK7-1 QES-DEN
2,6-DINITROTOLUENE				90		FEXK7-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				104		FEXK7-1 QES-DEN
2-NITROTOLUENE				47		FEXK7-1 QES-DEN
3-NITROTOLUENE				44		FEXK7-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				95		FEXK7-1 QES-DEN
4-NITROTOLUENE				46		FEXK7-1 QES-DEN
HMX				117		FEXK7-1 QES-DEN
NITROBENZENE				66		FEXK7-1 QES-DEN
NITROGLYCERIN				96		FEXK7-1 QES-DEN
PETN				80		FEXK7-1 QES-DEN
RDX				91		FEXK7-1 QES-DEN
TETRYL				89		FEXK7-1 QES-DEN

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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
Surrogates:						
NITROBENZENE-D5				61		FEXK7-1 QES-DEN
Method Blank:						
1,3,5-TRINITROBENZENE	ND	UG/L	0.025			FEXK7-1 QES-DEN
1,3-DINITROBENZENE	ND	UG/L	0.023			FEXK7-1 QES-DEN
2,4,6-TRINITROTOLUENE	ND	UG/L	0.021			FEXK7-1 QES-DEN
2,4-DINITROTOLUENE	ND	UG/L	0.026			FEXK7-1 QES-DEN
2,6-DINITROTOLUENE	ND	UG/L	0.022			FEXK7-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE	ND	UG/L	0.036			FEXK7-1 QES-DEN
2-NITROTOLUENE	ND	UG/L	0.026			FEXK7-1 QES-DEN
3-NITROTOLUENE	ND	UG/L	0.027			FEXK7-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE	ND	UG/L	0.020			FEXK7-1 QES-DEN
4-NITROTOLUENE	ND	UG/L	0.025			FEXK7-1 QES-DEN
HMX	ND	UG/L	0.040			FEXK7-1 QES-DEN
NITROBENZENE	ND	UG/L	0.025			FEXK7-1 QES-DEN
NITROGLYCERIN	ND	UG/L	0.030			FEXK7-1 QES-DEN
PETN	ND	UG/L	0.051			FEXK7-1 QES-DEN
RDX	ND	UG/L	0.020			FEXK7-1 QES-DEN
TETRYL	ND	UG/L	0.024			FEXK7-1 QES-DEN
Surrogates:						
NITROBENZENE-D5				73		FEXK7-1 QES-DEN
Matrix Spike:						
1,3,5-TRINITROBENZENE				92		FEQK9-1 QES-DEN
1,3-DINITROBENZENE				100		FEQK9-1 QES-DEN
2,4,6-TRINITROTOLUENE				62		FEQK9-1 QES-DEN
2,4-DINITROTOLUENE				94		FEQK9-1 QES-DEN
2,6-DINITROTOLUENE				98		FEQK9-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				101		FEQK9-1 QES-DEN
2-NITROTOLUENE				57		FEQK9-1 QES-DEN
3-NITROTOLUENE				61		FEQK9-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				95		FEQK9-1 QES-DEN
4-NITROTOLUENE				67		FEQK9-1 QES-DEN
HMX				0		FEQK9-1 QES-DEN
NITROBENZENE				80		FEQK9-1 QES-DEN
NITROGLYCERIN				91		FEQK9-1 QES-DEN
PETN				80		FEQK9-1 QES-DEN
RDX				93		FEQK9-1 QES-DEN
TETRYL				72		FEQK9-1 QES-DEN
Surrogates:						
NITROBENZENE-D5				0		FEQK9-1 QES-DEN
Matrix Spike Duplicate:						
1,3,5-TRINITROBENZENE				93	1.8	FEQK9-1 QES-DEN
1,3-DINITROBENZENE				96	6.8	FEQK9-1 QES-DEN
2,4,6-TRINITROTOLUENE				57	11	FEQK9-1 QES-DEN
2,4-DINITROTOLUENE				94	3.2	FEQK9-1 QES-DEN
2,6-DINITROTOLUENE				96	4.7	FEQK9-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				105	1.7	FEQK9-1 QES-DEN
2-NITROTOLUENE				70	18	FEQK9-1 QES-DEN
3-NITROTOLUENE				69	8.4	FEQK9-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				91	7.5	FEQK9-1 QES-DEN
4-NITROTOLUENE				70	1.4	FEQK9-1 QES-DEN
HMX				0	0	FEQK9-1 QES-DEN
NITROBENZENE				77	7	FEQK9-1 QES-DEN
NITROGLYCERIN				107	13	FEQK9-1 QES-DEN
PETN				107	26	FEQK9-1 QES-DEN
RDX				88	8.6	FEQK9-1 QES-DEN
TETRYL				66	11	FEQK9-1 QES-DEN



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Matrix Spike Duplicate:

Surrogates:

NITROBENZENE-D5 0 0 FEQK9-1 QES-DEN

Comments:

- 8321 (HMX): The matrix spike and spike duplicate recoveries were outside control limits. Lab control spike recovery met acceptance criteria.  
8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.  
8321 (2,4,6-TRINITROTOLUENE): The matrix spike duplicate recovery was outside control limits. Lab control spike recovery met acceptance criteria.  
8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

Batch Identifier

Method Number: 8321 Prep Method: SW3535 Pre-prep:  
Batch Start Date: 17DEC02  
Instrument: LCMS2  
Batch Number: 51

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	13DEC02	FEV9E-1 QES-DEN	QC
BAR-G-72330H-EFFLUENT	10DEC02	FEQFK-1 QES-DEN	QC
BAR-G-72330H-INFLOW	10DEC02	FEQFD-1 QES-DEN	QC
BAR-G-72330H-INFLOW	10DEC02	FEQFD-2 QES-DEN	QC
BAR-G-72410H-EFFLUENT	10DEC02	FEQF8-1 QES-DEN	QC
BAR-G-72410H-INFLOW	10DEC02	FEQF7-1 QES-DEN	QC
BAR-G-72410H-INFLOW	10DEC02	FEQF7-2 QES-DEN	QC
BAR-G-72420H-EFFLUENT	10DEC02	FEQGK-1 QES-DEN	QC
BAR-G-72420H-EFFLUENT	10DEC02	FEQGK-2 QES-DEN	QC
BAR-G-72420H-INFLOW	10DEC02	FEQGE-1 QES-DEN	QC
BAR-G-72420H-INFLOW	10DEC02	FEQGE-2 QES-DEN	QC
BAR-G-73100BG-INFLOW	10DEC02	FEQF2-1 QES-DEN	QC
BAR-G-73110H-EFFLUENT	10DEC02	FEQF6-1 QES-DEN	QC
BAR-G-73110H-INFLOW	10DEC02	FEQF3-1 QES-DEN	QC
BAR-G-73110H-INFLOW	10DEC02	FEQF3-2 QES-DEN	QC
BAR-G-73120BG-EFFLUENT	12DEC02	FEV9T-1 QES-DEN	QC
BAR-G-73120BG-INFLOW	12DEC02	FEV9M-1 QES-DEN	QC
BAR-G-73150BJ-INFLOW	10DEC02	FEQFX-1 QES-DEN	QC
BAR-G-CLUBHOUSE-EFFLUENT	10DEC02	FEQFN-1 QES-DEN	QC
BAR-G-CLUBHOUSE-INFLOW	10DEC02	FEQFM-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,3,5-TRINITROBENZENE				93		FE143-1 QES-DEN
1,3-DINITROBENZENE				95		FE143-1 QES-DEN
2,4,6-TRINITROTOLUENE				59		FE143-1 QES-DEN
2,4-DINITROTOLUENE				92		FE143-1 QES-DEN
2,6-DINITROTOLUENE				92		FE143-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				101		FE143-1 QES-DEN
2-NITROTOLUENE				38		FE143-1 QES-DEN
3-NITROTOLUENE				47		FE143-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				92		FE143-1 QES-DEN
4-NITROTOLUENE				53		FE143-1 QES-DEN
HMX				106		FE143-1 QES-DEN
NITROBENZENE				51		FE143-1 QES-DEN
NITROGLYCERIN				89		FE143-1 QES-DEN
PETN				86		FE143-1 QES-DEN
RDX				95		FE143-1 QES-DEN
TETRYL				83		FE143-1 QES-DEN

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<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
Surrogates:						
NITROBENZENE-D5				50		FE143-1 QES-DEN
Method Blank:						
1,3,5-TRINITROBENZENE	ND	UG/L	0.025			FE143-1 QES-DEN
1,3-DINITROBENZENE	ND	UG/L	0.023			FE143-1 QES-DEN
2,4,6-TRINITROTOLUENE	ND	UG/L	0.021			FE143-1 QES-DEN
2,4-DINITROTOLUENE	ND	UG/L	0.026			FE143-1 QES-DEN
2,6-DINITROTOLUENE	ND	UG/L	0.022			FE143-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE	ND	UG/L	0.036			FE143-1 QES-DEN
2-NITROTOLUENE	ND	UG/L	0.026			FE143-1 QES-DEN
3-NITROTOLUENE	ND	UG/L	0.027			FE143-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE	ND	UG/L	0.020			FE143-1 QES-DEN
4-NITROTOLUENE	ND	UG/L	0.025			FE143-1 QES-DEN
HMX	ND	UG/L	0.040			FE143-1 QES-DEN
NITROBENZENE	ND	UG/L	0.025			FE143-1 QES-DEN
NITROGLYCERIN	ND	UG/L	0.030			FE143-1 QES-DEN
PETN	ND	UG/L	0.051			FE143-1 QES-DEN
RDX	ND	UG/L	0.020			FE143-1 QES-DEN
TETRYL	ND	UG/L	0.024			FE143-1 QES-DEN

Surrogates:

NITROBENZENE-D5				86		FE143-1 QES-DEN
Matrix Spike:						
1,3,5-TRINITROBENZENE				107		FEV9E-1 QES-DEN
1,3-DINITROBENZENE				100		FEV9E-1 QES-DEN
2,4,6-TRINITROTOLUENE				64		FEV9E-1 QES-DEN
2,4-DINITROTOLUENE				104		FEV9E-1 QES-DEN
2,6-DINITROTOLUENE				97		FEV9E-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				100		FEV9E-1 QES-DEN
2-NITROTOLUENE				51		FEV9E-1 QES-DEN
3-NITROTOLUENE				56		FEV9E-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				94		FEV9E-1 QES-DEN
4-NITROTOLUENE				62		FEV9E-1 QES-DEN
HMX				66		FEV9E-1 QES-DEN
NITROBENZENE				53		FEV9E-1 QES-DEN
NITROGLYCERIN				98		FEV9E-1 QES-DEN
PETN				84		FEV9E-1 QES-DEN
RDX				109		FEV9E-1 QES-DEN
TETRYL				79		FEV9E-1 QES-DEN

Surrogates:

NITROBENZENE-D5				63		FEV9E-1 QES-DEN
Matrix Spike Duplicate:						
1,3,5-TRINITROBENZENE				95	12	FEV9E-1 QES-DEN
1,3-DINITROBENZENE				95	4.8	FEV9E-1 QES-DEN
2,4,6-TRINITROTOLUENE				64	1.4	FEV9E-1 QES-DEN
2,4-DINITROTOLUENE				99	5	FEV9E-1 QES-DEN
2,6-DINITROTOLUENE				96	.84	FEV9E-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				104	3.5	FEV9E-1 QES-DEN
2-NITROTOLUENE				46	11	FEV9E-1 QES-DEN
3-NITROTOLUENE				51	8.8	FEV9E-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				96	2	FEV9E-1 QES-DEN
4-NITROTOLUENE				61	1.5	FEV9E-1 QES-DEN
HMX				62	5.5	FEV9E-1 QES-DEN
NITROBENZENE				57	6	FEV9E-1 QES-DEN
NITROGLYCERIN				103	4.7	FEV9E-1 QES-DEN
PETN				82	1.7	FEV9E-1 QES-DEN
RDX				101	7.8	FEV9E-1 QES-DEN
TETRYL				65	19	FEV9E-1 QES-DEN

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Matrix Spike Duplicate:

Surrogates:

NITROBENZENE-D5 64 .63 FEV9E-1 QES-DEN

Batch Identifier

Method Number: 8321 Prep Method: SW3535 Pre-prep:  
Batch Start Date: 18DEC02  
Instrument: LCMS2  
Batch Number: 34

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29250E-INFLOW	11DEC02	FET55-1 QES-DEN	QC
BAR-G-29250E-INFLOW	11DEC02	FET55-2 QES-DEN	QC
BAR-G-29310E-INFLOW	11DEC02	FET58-1 QES-DEN	QC
BAR-G-29380E-INFLOW	11DEC02	FET6D-1 QES-DEN	QC
BAR-G-29440E-INFLOW	11DEC02	FET57-1 QES-DEN	QC
BAR-G-29440E-INFLOW	11DEC02	FET57-2 QES-DEN	QC
BAR-G-29745E-INFLOW	11DEC02	FET6C-1 QES-DEN	QC
BAR-G-71075H-INFLOW	12DEC02	FET65-1 QES-DEN	QC
BAR-G-71075H-INFLOW-DUP	12DEC02	FET66-1 QES-DEN	QC
BAR-G-711150-INFLOW	11DEC02	FET56-1 QES-DEN	QC
BAR-G-71205H-INFLOW	11DEC02	FET5L-1 QES-DEN	QC
BAR-G-71210H-INFLOW	11DEC02	FET49-1 QES-DEN	QC
BAR-G-71250H-INFLOW	11DEC02	FET36-1 QES-DEN	QC
BAR-G-717150-INFLOW	11DEC02	FET54-1 QES-DEN	QC
BAR-G-72040H-EFFLUENT	12DEC02	FET6M-1 QES-DEN	QC
BAR-G-72040H-INFLOW	12DEC02	FET6G-1 QES-DEN	QC
BAR-G-72040H-INFLOW	12DEC02	FET6G-2 QES-DEN	QC
BAR-G-72790H-INFLOW	11DEC02	FET5P-1 QES-DEN	QC
BAR-G-73040BG-INFLOW	12DEC02	FET6P-1 QES-DEN	QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,3,5-TRINITROBENZENE				98		FE3TV-1 QES-DEN
1,3-DINITROBENZENE				107		FE3TV-1 QES-DEN
2,4,6-TRINITROTOLUENE				102		FE3TV-1 QES-DEN
2,4-DINITROTOLUENE				105		FE3TV-1 QES-DEN
2,6-DINITROTOLUENE				104		FE3TV-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				116		FE3TV-1 QES-DEN
2-NITROTOLUENE				64		FE3TV-1 QES-DEN
3-NITROTOLUENE				72		FE3TV-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				113		FE3TV-1 QES-DEN
4-NITROTOLUENE				70		FE3TV-1 QES-DEN
HMX				134		FE3TV-1 QES-DEN
NITROBENZENE				75		FE3TV-1 QES-DEN
NITROGLYCERIN				111		FE3TV-1 QES-DEN
PETN				61		FE3TV-1 QES-DEN
RDX				100		FE3TV-1 QES-DEN
TETRYL				146		FE3TV-1 QES-DEN

Surrogates:

NITROBENZENE-D5 82 FE3TV-1 QES-DEN

Method Blank:

1,3,5-TRINITROBENZENE	ND	UG/L	0.025			FE3TV-1 QES-DEN
1,3-DINITROBENZENE	ND	UG/L	0.023			FE3TV-1 QES-DEN
2,4,6-TRINITROTOLUENE	ND	UG/L	0.021			FE3TV-1 QES-DEN
2,4-DINITROTOLUENE	ND	UG/L	0.026			FE3TV-1 QES-DEN
2,6-DINITROTOLUENE	ND	UG/L	0.022			FE3TV-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE	ND	UG/L	0.036			FE3TV-1 QES-DEN
2-NITROTOLUENE	ND	UG/L	0.026			FE3TV-1 QES-DEN
3-NITROTOLUENE	ND	UG/L	0.027			FE3TV-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE	ND	UG/L	0.020			FE3TV-1 QES-DEN
4-NITROTOLUENE	ND	UG/L	0.025			FE3TV-1 QES-DEN

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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Method Blank:						
HMX	ND	UG/L	0.040			FE3TV-1 QES-DEN
NITROBENZENE	ND	UG/L	0.025			FE3TV-1 QES-DEN
NITROGLYCERIN	ND	UG/L	0.030			FE3TV-1 QES-DEN
PETN	ND	UG/L	0.051			FE3TV-1 QES-DEN
RDX	ND	UG/L	0.020			FE3TV-1 QES-DEN
TETRYL	ND	UG/L	0.024			FE3TV-1 QES-DEN

Surrogates:

NITROBENZENE-D5				79		FE3TV-1 QES-DEN
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Matrix Spike:

1,3,5-TRINITROBENZENE				92		FET6G-1 QES-DEN
1,3-DINITROBENZENE				95		FET6G-1 QES-DEN
2,4,6-TRINITROTOLUENE				93		FET6G-1 QES-DEN
2,4-DINITROTOLUENE				92		FET6G-1 QES-DEN
2,6-DINITROTOLUENE				53		FET6G-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				101		FET6G-1 QES-DEN
2-NITROTOLUENE				69		FET6G-1 QES-DEN
3-NITROTOLUENE				68		FET6G-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				95		FET6G-1 QES-DEN
4-NITROTOLUENE				61		FET6G-1 QES-DEN
HMX				44		FET6G-1 QES-DEN
NITROBENZENE				71		FET6G-1 QES-DEN
NITROGLYCERIN				125		FET6G-1 QES-DEN
PETN				76		FET6G-1 QES-DEN
RDX				91		FET6G-1 QES-DEN
TETRYL				101		FET6G-1 QES-DEN

Surrogates:

NITROBENZENE-D5				0		FET6G-1 QES-DEN
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Matrix Spike Duplicate:

1,3,5-TRINITROBENZENE				97	3.5	FET6G-1 QES-DEN
1,3-DINITROBENZENE				106	10	FET6G-1 QES-DEN
2,4,6-TRINITROTOLUENE				105	10	FET6G-1 QES-DEN
2,4-DINITROTOLUENE				111	14	FET6G-1 QES-DEN
2,6-DINITROTOLUENE				128	16	FET6G-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				117	6.6	FET6G-1 QES-DEN
2-NITROTOLUENE				76	7	FET6G-1 QES-DEN
3-NITROTOLUENE				77	11	FET6G-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				118	11	FET6G-1 QES-DEN
4-NITROTOLUENE				76	20	FET6G-1 QES-DEN
HMX				46	2	FET6G-1 QES-DEN
NITROBENZENE				90	23	FET6G-1 QES-DEN
NITROGLYCERIN				98	26	FET6G-1 QES-DEN
PETN				78	.8	FET6G-1 QES-DEN
RDX				103	10	FET6G-1 QES-DEN
TETRYL				106	3.1	FET6G-1 QES-DEN

Surrogates:

NITROBENZENE-D5				0	0	FET6G-1 QES-DEN
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Comments:

- 8321 (2,6-DINITROTOLUENE): The matrix spike and spike duplicate recoveries were outside control limits. Lab control spike recovery met acceptance criteria.
- 8321 (HMX): The matrix spike and spike duplicate recoveries were outside control limits. Lab control spike recovery met acceptance criteria.
- 8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.
- 8321 (NITROBENZENE-D5): Recovery value for surrogate could not be accurately determined due to the dilution required for analysis.

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Batch Identifier

Method Number: 8321      Prep Method: SW3535      Pre-prep:  
Batch Start Date: 18DEC02  
Instrument: LCMS2  
Batch Number: 93

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date</u>	<u>Sampled</u>	<u>Lab Sample ID</u>	<u>QC</u>	<u>Level</u>
BAR-G-29025E-INFLOW	11DEC02	FET8J-1	QES-DEN	QC	
BAR-G-29700E-INFLOW	11DEC02	FET8D-1	QES-DEN	QC	
BAR-G-30095M-INFLOW	11DEC02	FET77-1	QES-DEN	QC	
BAR-G-30175M-INFLOW	11DEC02	FET79-1	QES-DEN	QC	
BAR-G-30190M-INFLOW	11DEC02	FET76-1	QES-DEN	QC	
BAR-G-30200M-INFLOW	11DEC02	FET8A-1	QES-DEN	QC	
BAR-G-30200M-INFLOW-DUP	11DEC02	FET75-1	QES-DEN	QC	
BAR-G-31340S-INFLOW	12DEC02	FET8R-1	QES-DEN	QC	
BAR-G-71015O-INFLOW	11DEC02	FET8M-1	QES-DEN	QC	
BAR-G-71125O-INFLOW	11DEC02	FET8F-1	QES-DEN	QC	
BAR-G-71150O-INFLOW	11DEC02	FET8K-1	QES-DEN	QC	
BAR-G-71270H-INFLOW	11DEC02	FET8P-1	QES-DEN	QC	
BAR-G-71450H-INFLOW	11DEC02	FET8N-1	QES-DEN	QC	
BAR-G-71470H-INFLOW	11DEC02	FET8W-1	QES-DEN	QC	
BAR-G-71485O-INFLOW	11DEC02	FET8L-1	QES-DEN	QC	

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
1,3,5-TRINITROBENZENE				94		FE475-1 QES-DEN
1,3-DINITROBENZENE				98		FE475-1 QES-DEN
2,4,6-TRINITROTOLUENE				101		FE475-1 QES-DEN
2,4-DINITROTOLUENE				93		FE475-1 QES-DEN
2,6-DINITROTOLUENE				103		FE475-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				112		FE475-1 QES-DEN
2-NITROTOLUENE				36		FE475-1 QES-DEN
3-NITROTOLUENE				41		FE475-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				110		FE475-1 QES-DEN
4-NITROTOLUENE				43		FE475-1 QES-DEN
HMX				123		FE475-1 QES-DEN
NITROBENZENE				52		FE475-1 QES-DEN
NITROGLYCERIN				114		FE475-1 QES-DEN
PETN				73		FE475-1 QES-DEN
RDX				91		FE475-1 QES-DEN
TETRYL				87		FE475-1 QES-DEN

Surrogates:

NITROBENZENE-D5				58		FE475-1 QES-DEN
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Lab Control Spike Duplicate:

1,3,5-TRINITROBENZENE				90	3.8	FE475-1 QES-DEN
1,3-DINITROBENZENE				97	.62	FE475-1 QES-DEN
2,4,6-TRINITROTOLUENE				98	3.2	FE475-1 QES-DEN
2,4-DINITROTOLUENE				96	3.1	FE475-1 QES-DEN
2,6-DINITROTOLUENE				94	9.4	FE475-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE				113	1	FE475-1 QES-DEN
2-NITROTOLUENE				40	8.8	FE475-1 QES-DEN
3-NITROTOLUENE				46	11	FE475-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE				107	2.6	FE475-1 QES-DEN
4-NITROTOLUENE				42	2.5	FE475-1 QES-DEN
HMX				140	13	FE475-1 QES-DEN
NITROBENZENE				57	8.5	FE475-1 QES-DEN
NITROGLYCERIN				107	5.5	FE475-1 QES-DEN
PETN				76	3.3	FE475-1 QES-DEN
RDX				93	1.4	FE475-1 QES-DEN
TETRYL				97	11	FE475-1 QES-DEN

Surrogates:

NITROBENZENE-D5				61	3.7	FE475-1 QES-DEN
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Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Method Blank:						
1,3,5-TRINITROBENZENE	ND	UG/L	0.025			FE475-1 QES-DEN
1,3-DINITROBENZENE	ND	UG/L	0.023			FE475-1 QES-DEN
2,4,6-TRINITROTOLUENE	ND	UG/L	0.021			FE475-1 QES-DEN
2,4-DINITROTOLUENE	ND	UG/L	0.026			FE475-1 QES-DEN
2,6-DINITROTOLUENE	ND	UG/L	0.022			FE475-1 QES-DEN
2-AMINO-4,6-DINITROTOLUENE	ND	UG/L	0.036			FE475-1 QES-DEN
2-NITROTOLUENE	ND	UG/L	0.026			FE475-1 QES-DEN
3-NITROTOLUENE	ND	UG/L	0.027			FE475-1 QES-DEN
4-AMINO-2,6-DINITROTOLUENE	ND	UG/L	0.020			FE475-1 QES-DEN
4-NITROTOLUENE	ND	UG/L	0.025			FE475-1 QES-DEN
HMX	ND	UG/L	0.040			FE475-1 QES-DEN
NITROBENZENE	ND	UG/L	0.025			FE475-1 QES-DEN
NITROGLYCERIN	ND	UG/L	0.030			FE475-1 QES-DEN
PETN	ND	UG/L	0.051			FE475-1 QES-DEN
RDX	ND	UG/L	0.020			FE475-1 QES-DEN
TETRYL	ND	UG/L	0.024			FE475-1 QES-DEN

Surrogates:

NITROBENZENE-D5 62 FE475-1 QES-DEN

Matrix Spike:

1,3,5-TRINITROBENZENE	93	FET77-1	QES-DEN
1,3-DINITROBENZENE	97	FET77-1	QES-DEN
2,4,6-TRINITROTOLUENE	104	FET77-1	QES-DEN
2,4-DINITROTOLUENE	93	FET77-1	QES-DEN
2,6-DINITROTOLUENE	98	FET77-1	QES-DEN
2-AMINO-4,6-DINITROTOLUENE	114	FET77-1	QES-DEN
2-NITROTOLUENE	49	FET77-1	QES-DEN
3-NITROTOLUENE	54	FET77-1	QES-DEN
4-AMINO-2,6-DINITROTOLUENE	109	FET77-1	QES-DEN
4-NITROTOLUENE	57	FET77-1	QES-DEN
HMX	60	FET77-1	QES-DEN
NITROBENZENE	62	FET77-1	QES-DEN
NITROGLYCERIN	105	FET77-1	QES-DEN
PETN	77	FET77-1	QES-DEN
RDX	94	FET77-1	QES-DEN
TETRYL	99	FET77-1	QES-DEN

Surrogates:

NITROBENZENE-D5 68 FET77-1 QES-DEN

Matrix Spike Duplicate:

1,3,5-TRINITROBENZENE	91	6.3	FET77-1	QES-DEN
1,3-DINITROBENZENE	100	.58	FET77-1	QES-DEN
2,4,6-TRINITROTOLUENE	97	11	FET77-1	QES-DEN
2,4-DINITROTOLUENE	95	1.5	FET77-1	QES-DEN
2,6-DINITROTOLUENE	99	3.5	FET77-1	QES-DEN
2-AMINO-4,6-DINITROTOLUENE	120	1.4	FET77-1	QES-DEN
2-NITROTOLUENE	36	34	FET77-1	QES-DEN
3-NITROTOLUENE	43	28	FET77-1	QES-DEN
4-AMINO-2,6-DINITROTOLUENE	111	1.3	FET77-1	QES-DEN
4-NITROTOLUENE	48	21	FET77-1	QES-DEN
HMX	69	11	FET77-1	QES-DEN
NITROBENZENE	59	9.7	FET77-1	QES-DEN
NITROGLYCERIN	104	5.4	FET77-1	QES-DEN
PETN	82	2.9	FET77-1	QES-DEN
RDX	106	8.3	FET77-1	QES-DEN
TETRYL	106	2.4	FET77-1	QES-DEN

Surrogates:

NITROBENZENE-D5 59 15 FET77-1 QES-DEN

Corporate Environmental Database  
Field Sample Report

January 29, 2003 Page 1

Site Name: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 12/02

Source Name	Date Sampled	Time	Depth Well(ft)	Depth Aqua(ft)	Organic Vapor case ppm	Color Qual.	Diss. Oxygen mg/l	Odor	Spec. Cond. umhos/cm	Temp. c	pH std
30700N-INFLOW	12/09/02	1458	-	-	-	CLEAR	4.98	NONE	617	11.5	6.65
3025BG-INFLOW	12/09/02	1530	-	-	-	CLEAR	2.23	NONE	198	9.6	6.62
3030BG-INFLOW	12/09/02	1544	-	-	-	CLEAR	1.6	NONE	117.0	5.6	6.50
2520H-INFLOW	12/09/02	1631	-	-	-	CLEAR	3.12	NONE	276	8.5	6.01
2700H-INFLOW	12/09/02	1700	-	-	-	CLEAR	1.09	NONE	159.9	9.1	7.26
3160H-INFLOW	12/09/02	1730	-	-	-	CLEAR	6.44	NONE	1262	12.5	6.09
3250H-INFLOW	12/09/02	1745	-	-	-	CLEAR	2.07	NONE	198	11.0	6.40
30900N-INFLOW	12/09/02	1810	-	-	-	CLEAR	1.71	NONE	141.8	8.8	6.09
30810N-INFLOW	12/09/02	1830	-	-	-	CLEAR	6.33	NONE	488	10.3	5.83
3080BG-INFLOW	12/09/02	1850	-	-	-	CLEAR	2.11	NONE	165.1	8.6	6.13
2910H-INFLOW	12/09/02	1905	-	-	-	CLEAR	2.20	NONE	160.0	15.3	6.66
2920H-INFLOW	12/09/02	1920	-	-	-	CLEAR	3.28	NONE	170.5	14.3	6.68
3500H-INFLOW	12/10/02	1220	-	-	-	CLEAR	4.18	NONE	307	9.1	6.29
3110H-INFLOW	12/10/02	1235	-	-	-	CLEAR	7.29	NONE	813	10.9	6.01
2470H-INFLOW	12/10/02	1300	-	-	-	CLEAR	4.72	NONE	836	10.9	6.17
2330H-INFLOW	12/10/02	1330	-	-	-	CLEAR	3.56	NONE	511	10.4	6.64
2330H-INFLOW (2)	12/10/02	1330	-	-	-	CLEAR	3.55	NONE	511	10.4	6.64
CLUB HOUSE-INFLOW	12/10/02	1350	-	-	-	CLEAR	2.26	NONE	149.0	11.1	6.39
30380N-INFLOW	12/10/02	1500	-	-	-	CLEAR	3.81	NONE	529	8.6	7.04
30300N-INFLOW	12/10/02	1510	-	-	-	CLEAR	4.88	NONE	195.5	6.4	6.57
30300N-INFLOW (2)	12/10/02	1510	-	-	-	CLEAR	4.87	NONE	195.5	6.4	6.60
3150BJ-INFLOW	12/10/02	1525	-	-	-	CLEAR	2.83	NONE	142.0	7.8	6.39
3280H-INFLOW	12/10/02	1545	-	-	-	CLEAR	4.41	NONE	353	13.4	6.85
3200H-INFLOW	12/10/02	1555	-	-	-	CLEAR	2.61	NONE	190.7	8.9	6.80
2860H-INFLOW	12/10/02	1605	-	-	-	CLEAR	2.66	NONE	171.2	12.9	6.66
2730H-INFLOW	12/10/02	1615	-	-	-	CLEAR	2.15	NONE	169.4	11.8	7.01
2450H-INFLOW	12/10/02	1630	-	-	-	CLEAR	5.23	NONE	460	10.0	5.79
2420H-INFLOW	12/10/02	1645	-	-	-	CLEAR	7.52	NONE	1198	9.5	5.44
2410H-INFLOW	12/10/02	1700	-	-	-	CLEAR	6.81	NONE	6.14	9.6	5.59
2370H-INFLOW	12/10/02	1715	-	-	-	CLEAR	X	NONE	604	9.4	5.53
3095BG-INFLOW	12/10/02	1730	-	-	-	CLEAR	3.24	NONE	313	10.0	5.55
30490N-INFLOW	12/10/02	1800	-	-	-	CLEAR	4.92	NONE	460	11.9	6.72
29600N-INFLOW	12/10/02	1826	-	-	-	CLEAR	2.64	NONE	317	9.0	6.49
3100BG-INFLOW	12/10/02	1840	-	-	-	CLEAR	2.11	NONE	193.3	8.4	6.71
3110BG-INFLOW	12/10/02	1900	-	-	-	CLEAR	1.84	NO	338	15.7	6.81
14850-INFLOW	12/11/02	1320	-	-	-	CLEAR	3.10	NONE	272	6.5	7.48
11500-INFLOW	12/11/02	1330	-	-	-	CLEAR	6.93	NONE	275	9.2	6.72
11250-INFLOW	12/11/02	1340	-	-	-	CLEAR	7.10	NONE	252	8.8	6.85
10150-INFLOW	12/11/02	1350	-	-	-	CLEAR	6.80	NONE	252	11.8	6.92
9025E-INFLOW	12/11/02	1400	-	-	-	CLEAR	6.50	NONE	279	8.9	6.93
1470H-INFLOW	12/11/02	1500	-	-	-	CLEAR	2.08	NONE	156.6	12.2	7.78
1450H-INFLOW	12/11/02	1510	-	-	-	CLEAR	2.08	NONE	146.8	8.1	7.01
30190M-INFLOW	12/11/02	1520	-	-	-	CLEAR	3.65	NONE	143.5	6.2	6.85
30200M-INFLOW	12/11/02	1530	-	-	-	CLEAR	4.45	NONE	163.7	12.1	7.51
30200M-INFLOW (2)	12/11/02	1530	-	-	-	CLEAR	4.43	NONE	163.7	12.1	7.49
30095M-INFLOW	12/11/02	1540	-	-	-	CLEAR	5.57	NONE	136.2	7.9	7.31
30175M-INFLOW	12/11/02	1550	-	-	-	CLEAR	3.96	NONE	141.7	7.2	8.06
1270H-INFLOW	12/11/02	1600	-	-	-	CLEAR	5.98	NONE	268	7.3	6.18
1250H-INFLOW	12/11/02	1608	-	-	-	CLEAR	5.56	NONE	263	10.6	6.36
1205H-INFLOW	12/11/02	1618	-	-	-	CLEAR	7.22	NONE	277	10.6	6.43

Corporate Environmental Database  
Field Sample Report

January 29, 2003 Page 2

Site Name: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 12/02

Source Name	Date Sampled	Time	Depth Well(ft)	Depth Aqua(ft)	Organic Vapor case ppm	Color Qual.	Diss. Oxygen mg/l	Odor	Spec. Cond. umhos/cm	Temp. c	pH std
1210H-INFLOW	12/11/02	1625	-	-	-	CLEAR	6.23	NONE	202	8.9	6.75
19745E-INFLOW	12/11/02	1640	-	-	-	CLEAR	6.34	NONE	130.0	7.2	6.72
19700E-INFLOW	12/11/02	1648	-	-	-	CLEAR	6.47	NONE	150.0	8.1	6.69
19440E-INFLOW	12/11/02	1655	-	-	-	CLEAR	5.72	NONE	444	9.9	6.41
19380E-INFLOW	12/11/02	1705	-	-	-	CLEAR	5.67	NONE	460	15.3	7.10
19310E-INFLOW	12/11/02	1715	-	-	-	CLEAR	6.63	NONE	272	12.8	7.31
19250E-INFLOW	12/11/02	1720	-	-	-	CLEAR	7.52	NONE	590	1720	7.48
11150-INFLOW	12/11/02	1730	-	-	-	CLEAR	6.26	NONE	254	10.0	7.18
117150-INFLOW	12/11/02	1745	-	-	-	CLEAR	6.76	NONE	124.0	8.4	7.22
12790H-INFLOW	12/11/02	1810	-	-	-	CLEAR	3.32	NONE	181.4	16.8	7.19
12040H-INFLOW	12/12/02	0825	-	-	-	CLEAR	2.20	NONE	329	13.3	6.92
11340S-INFLOW	12/12/02	0855	-	-	-	CLEAR	3.09	NONE	209	20.0	7.16
13040B0-INFLOW	12/12/02	1105	-	-	-	CLEAR	1.76	NONE	253	9.0	7.16
11075H-INFLOW	12/12/02	1205	-	-	-	CLEAR	6.49	NONE	298	10.3	7.54
11075H-INFLOW (2)	12/12/02	1205	-	-	-	CLEAR	6.50	NONE	297	10.3	7.56
13120B0-INFLOW	12/12/02	1350	-	-	-	CLEAR	4.22	NONE	409	9.4	6.72
19600N-INFLOW	12/13/02	0945	-	-	-	CLEAR	1.50	NONE	190.4	8.0	8.27



Site Name: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 12/02

Events:

DOWN-INFLOW      12/13/02 0945 new well at location

**Chain of Custody Record**

37693

**SEVERN  
TRENT  
SERVICES**

**Severn Trent Laboratories, Inc.**

CHAIN OF CUSTODY NUMBER



\* 0 0 8 8 8 9 - 0 0 6 \*

STL4149 (0700)

<b>Client</b> E.I. Dupont De Nemours			<b>Project Manager</b> ADQM AP Services			<b>Date</b> 12/04/2002			<b>Page</b> <u>6</u> <b>of</b> <u>38</u>					
<b>Address</b> Barley Mill Plaza Building 27			<b>Telephone Number (Area Code)/Fax Number</b> (000) / (000)			<b>Lab Location</b> STL Denver			<b>Analysis</b>					

<b>City</b> Wilmington	<b>State</b> DE	<b>Zip Code</b> 19805	<b>Site Contact</b> ADQM AP Services						<b>E</b>	<b>M</b>	<b>I</b>	<b>I</b>	<b>T</b>	<b>N</b>	<b>M</b>	<b>M</b>					
<b>Project/Number/Name</b> BAR			<b>Carrier/Waybill Number</b>						<b>X</b>	<b>S</b>	<b>C</b>	<b>C</b>	<b>D</b>	<b>O</b>	<b>T</b>	<b>7</b>					
<b>Contract/Purchase Order/Quote Number</b> CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568						<b>QUOTE: 39097</b>						<b>P</b>	<b>8</b>	<b>S</b>	<b>C</b>	<b>S</b>	<b>3</b>	<b>6</b>	<b>4</b>		
									<b>8</b>	<b>2</b>	<b>O</b>	<b>L</b>	<b>N</b>	<b>0</b>	<b>7</b>						
									<b>3</b>	<b>6</b>	<b>4</b>	<b>:</b>	<b>O</b>	<b>1</b>	<b>0</b>						
									<b>2</b>	<b>0</b>	<b>:</b>	<b>L</b>	<b>2</b>	<b>0</b>	<b>:</b>						
									<b>1</b>	<b>:</b>	<b>L</b>		<b>:</b>	<b>L</b>							
									<b>L</b>	<b>L</b>			<b>L</b>								

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAF-G-73250H-INFLOW	12/9/02	1745	WATER	1L	AMBER	2	None	X
BAF-G-73250H-INFLOW	12/9/02	1745	WATER	250mL	AMBER	1	Conc H2804	X

**Special Instructions** Quote 39097-K Resident Wells 12/02 (BAR)

**Possible Hazard Identification**

Non Hazard
  Flammable
  Skin Irritant
  Poison B
  Unknown
  Return To Client
  Disposal By Lab
  Archive For \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 3 months)

**Turn Around Time Required**

Normal
  Rush
  Other \_\_\_\_\_

**QC Level**

I.  II.  III.

1 Requisitioned By			Date	Time	1 Received By			Date	Time
[Signature]			12/15/02		[Signature]			12/9/02	0900
2 Requisitioned By			Date	Time	2 Received By			Date	Time
[Signature]			12/10/02	0800	[Signature]			12/10/02	
3 Requisitioned By			Date	Time	3 Received By			Date	Time

**Comments**

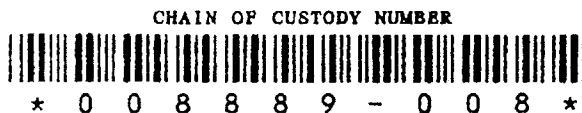
**DISTRIBUTION:** WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody  
Record

**SEVERN  
TRENT  
SERVICES**

97695

Severn Trent Laboratories, Inc.



\* 0 0 8 8 8 9 - 0 0 8 \*

STL4149 (0700)

Client <b>E.I. Dupont De Nemours</b>		Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>8</u> of <u>38</u>
Address <b>Barley Mill Plaza Building 27</b>			Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>
City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>		
Project Number/Name <b>BAR</b>			Carrier/Waybill Number		
Contract/Purchase Order/Quote Number <b>CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>				QUOTE: 39097	

Analysis

B	M	I	T	N	M	M											
X	S	C	C	D	O	T	7										
P	8	S	C	S	3	6	4										
8	2	O	L	N	0	7											
3	6	4	:	O	1	0											
2	0	:	L	2	0	:											
1	:	L		:	L												
L	L					L											
X																	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAR-G-73160H-INFLOW	12/9/02	7:30	WATER	1L	AMBER	2	None	
BAR-G-73160H-INFLOW	12/9/02	7:30	WATER	250mL	AMBER	1	Conc H2SO4	

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Possible Hazard Identification  
 Non-Hazard   
 Flammable   
 Skin Irritant   
 Poison B   
 Unknown   
 Return To Client   
 Disposal By Lab   
 Archive For \_\_\_\_\_ Months  
(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required  
 Normal   
 Rush   
 Other \_\_\_\_\_

QC Level  
 I.   
 II.   
 III.

Project Specific Requirements (Specify)

1 Relinquished By <i>[Signature]</i>	Date <b>12/15/02</b>	Time	1. Received By <i>[Signature]</i>	Date <b>12/9/02</b>	Time <b>0700</b>
2 Relinquished By <i>[Signature]</i>	Date <b>12/10/02</b>	Time <b>0800</b>	2. Received By <i>[Signature]</i>	Date <b>12/11/02</b>	Time <b>0945</b>
3 Relinquished By	Date	Time	3. Received By	Date	Time

Comments



210 MS 12/11/02



37717

# Chain of Custody Record

CHAIN OF CUSTODY NUMBER



\* 0 0 8 8 8 9 - 0 3 0 \*

Severn Trent Laboratories, Inc.

STL4149 (0700)

<b>Client</b> E.I. Dupont De Nemours			<b>Project Manager</b> ADQM AP Services			<b>Date</b> 12/04/2002			Page <u>30</u> of <u>38</u>		
<b>Address</b> Barley Mill Plaza Building 27			<b>Telephone Number (Area Code)/Fax Number (000) / (000)</b>			<b>Lab Location</b> STL Denver			<b>Analysis</b>		
<b>City</b> Wilmington		<b>State</b> DE	<b>Zip Code</b> 19805	<b>Site Contact</b> ADQM AP Services							
<b>Project Number/Name</b> BAR			<b>Carrier/Waybill Number</b>								
<b>Contract/Purchase Order/Quote Number</b> CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568						<b>QUOTE: 39097</b>					

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	B	M	I	T	N	M	M										
				Volume	Type	No.																			
BAR-G-73030BG-INFLOW	12/9/02	1544	WATER	1L	AMBER	2	None		X																
BAR-G-73030BG-INFLOW	12/9/02	1544	WATER	250mL	AMBER	1	Conc H2SO4																		

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<b>Sample Disposal</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
--	---	--

<b>Turn Around Time Required</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	<b>QC Level</b> <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	<b>Project Specific Requirements (Specify)</b>
---	---	--

1 Relinquished By <i>[Signature]</i>	Date 12/15/02	Time	1. Received By <i>[Signature]</i>	Date 12/9/02	Time 0700
2 Relinquished By <i>[Signature]</i>	Date 12/10/02	Time 0800	2. Received By <i>[Signature]</i>	Date 12/11/02	Time 0945
3 Relinquished By	Date	Time	3. Received By	Date	Time

Comments



Severn Trent Laboratories, Inc.

**Chain of Custody Record**

CHAIN OF CUSTODY NUMBER



\* 0 0 8 8 8 9 - 0 1 0 \*

Client <b>E.I. Dupont De Nemours</b>		Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>10</u> of <u>38</u>
Address <b>Barley Mill Plaza Building 27</b>		Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>		Lab Location <b>STL Denver</b>	Analysis

City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>
Project Number/Name <b>BAR</b>		Carrier/Waybill Number	

Contract/Purchase Order/Quote Number  
**CONTACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568** QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAR-G-72920H-INFLOW	12/9/02	1920	WATER	1L	AMBER	2	None	
BAR-G-72920H-INFLOW	12/9/02	1920	WATER	250mL	AMBER	1	Conc H2SO4	

E	M	I	I	T	N	M	M													
X	S	C	C	D	O	T	7													
P	8	S	C	S	3	6	4													
8	2	O	L	N	0	7														
3	6	4	;	;	0	1	0													
2	0	;	L	2	0	;														
1	;	L	;	;	;	L														
L	L					L														

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Turn Around Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
1. Relinquished By <i>[Signature]</i>		Date 12/5/02	Time	1. Received By <i>[Signature]</i>		Date 12/9/02	Time 0900	
2. Relinquished By <i>[Signature]</i>		Date 12/10/02	Time 0800	2. Received By <i>[Signature]</i>		Date 12/10/02	Time 0815	
3. Relinquished By		Date	Time	3. Received By		Date	Time	
Comments								



Severn Trent Laboratories, Inc.

Chain of Custody Record

CHAIN OF CUSTODY NUMBER



\* 0 0 8 8 8 9 - 0 2 9 \*

SIL4149 (0700)

Client <b>E.I. Dupont De Nemours</b>		Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>29</u> of <u>38</u>
Address <b>Barley Mill Plaza Building 27</b>		Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>		Lab Location <b>STL Denver</b>	Analysis

City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>	<table border="1"> <tr><td>E</td><td>M</td><td>I</td><td>I</td><td>T</td><td>N</td><td>M</td><td>M</td></tr> <tr><td>X</td><td>S</td><td>C</td><td>C</td><td>D</td><td>O</td><td>T</td><td>7</td></tr> <tr><td>P</td><td>8</td><td>S</td><td>C</td><td>S</td><td>3</td><td>6</td><td>4</td></tr> <tr><td>8</td><td>2</td><td>O</td><td>L</td><td>N</td><td>0</td><td>7</td><td></td></tr> <tr><td>3</td><td>6</td><td>4</td><td>:</td><td>:</td><td>O</td><td>1</td><td>0</td></tr> <tr><td>2</td><td>0</td><td>:</td><td>L</td><td>:</td><td>2</td><td>0</td><td>:</td></tr> <tr><td>1</td><td>:</td><td>L</td><td>:</td><td>:</td><td>:</td><td>L</td><td>:</td></tr> <tr><td>L</td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	E	M	I	I	T	N	M	M	X	S	C	C	D	O	T	7	P	8	S	C	S	3	6	4	8	2	O	L	N	0	7		3	6	4	:	:	O	1	0	2	0	:	L	:	2	0	:	1	:	L	:	:	:	L	:	L	L						
E	M	I	I		T	N	M	M																																																												
X	S	C	C	D	O	T	7																																																													
P	8	S	C	S	3	6	4																																																													
8	2	O	L	N	0	7																																																														
3	6	4	:	:	O	1	0																																																													
2	0	:	L	:	2	0	:																																																													
1	:	L	:	:	:	L	:																																																													
L	L																																																																			
Project Number/Name <b>BAR</b>		Carrier/Waybill Number																																																																		

Contract/Purchase Order/Quote Number  
**CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568**      **QUOTE: 39097**

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No		
BAR-G-73025BG-INFLOW	12/9/02	1530	WATER	1L	AMBER	2	None	
BAR-G-73025BG-INFLOW	↑	1530	WATER	250mL	AMBER	1	Conc H2SO4	
BAR-G-73080BG-INFLOW	↓	1850	water	1L	Amber	2	NONE	X
BAR-G-73080BG-INFLOW	12/9/02	1850	water	250mL	Amber	2	H2SO4	X

Special Instructions      **Quote 39097-K Resident Wells 12/02 (BAR)**

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
---	--	--

Turnaround Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
---	--	---

1. Relinquished By <i>[Signature]</i>	Date 12/9/02	Time 0700	1. Received By <i>[Signature]</i>	Date 12/9/02	Time 0700
2. Relinquished By <i>[Signature]</i>	Date 12/10/02	Time 0800	2. Received By <i>[Signature]</i>	Date 12/11/02	Time 0745
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

37689

Chain of Custody Record

CHAIN OF CUSTODY NUMBER



\* 0 0 8 8 8 9 - 0 0 2 \*



Severn Trent Laboratories, Inc.

STL4143 (07/00)

Client: E.I. Dupont De Nemours  
 Project Manager: ADQM AP Services  
 Date: 12/04/2002  
 Address: Barley Mill Plaza Building 27  
 Telephone Number (Area Code)/Fax Number (000) / (000)  
 Lab Location: STL Denver  
 Page 2 of 38

City: Wilmington, State: DE, Zip Code: 19805  
 Site Contact: ADQM AP Services  
 Project Number/Name: BAR  
 Carrier/Waybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568  
 QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAR-G-30900N-INFLOW	12/9/02	1810	WATER	40mL	VIAL	3	1:1 HCL	

Special Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Possible Hazard Identification:  Non-Hazard,  Flammable,  Skin Irritant,  Poison B,  Unknown  
 Sample Disposal:  Return To Client,  Disposal By Lab,  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required:  Normal,  Rush,  Other \_\_\_\_\_  
 QC Level:  I,  II,  III  
 Project Specific Requirements (Specify): \_\_\_\_\_

1. Relinquished By: <i>Well Subera</i>	Date: 12/14/02	Time: _____	1. Received By: <i>Janelle Lee</i>	Date: 12/9/02	Time: 0900
2. Relinquished By: <i>J Lee</i>	Date: 12/10/02	Time: 0800	2. Received By: <i>J Lee</i>	Date: 12/11/02	Time: 0945
3. Relinquished By: _____	Date: _____	Time: _____	3. Received By: _____	Date: _____	Time: _____

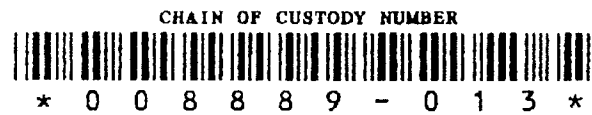
Comments: \_\_\_\_\_

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

**Chain of Custody Record**



97700



**Severn Trent Laboratories, Inc.**

Client <b>E.I. Dupont De Nemours</b>			Project Manager <b>ADQM AP Services</b>			Date <b>12/04/2002</b>			Page <u>13</u> of <u>38</u>			
Address <b>Barley Mill Plaza Building 27</b>			Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>			Lab Location <b>STL Denver</b>			Analysis			
City <b>Wilmington</b>		State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>			E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 0 L N 0 7 3 6 4 : O 1 0 2 0 : L 2 0 : 1 : L : L L L L					
Project Number/Name <b>BAR</b>			Carrier/Waybill Number									

Contract/Purchase Order/Quote Number  
**CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568**      **QUOTE: 39097**

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M
				Volume	Type	No.										
BAR-G-72700H-INFLOW	12/9/02	1700	WATER	1L	AMBER	2	None									
BAR-G-72700H-INFLOW	↑	1700	WATER	40mL	VIAL	3	1:1 HCL	X								
BAR-G-72700H-INFLOW	↑	1700	WATER	250mL	AMBER	1	Conc H2SO4							X		
BAR-G-72700H-EFFLUENT	12/9/02	1655	WATER	1L	AMBER	2	None	X								

Special Instructions      **Quote 39097-K Resident Wells 12/02 (BAR)**

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Turn Around Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
1 Relinquished By <i>Walt Lambert</i>			Date 12/5/02			Time		
2 Relinquished By <i>A. Beck</i>			Date 12/10/02			Time 0800		
3 Relinquished By			Date			Time		
1. Received By <i>A. Beck</i>			Date 12/9/02			Time 1200		
2. Received By <i>Walt Lambert</i>			Date 12/10/02			Time 0945		
3. Received By			Date			Time		

Comments



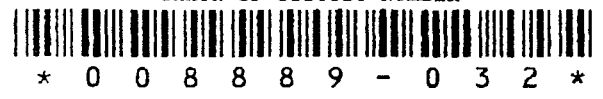
97719



Severn Trent Laboratories, Inc.

Chain of Custody Record

CHAIN OF CUSTODY NUMBER



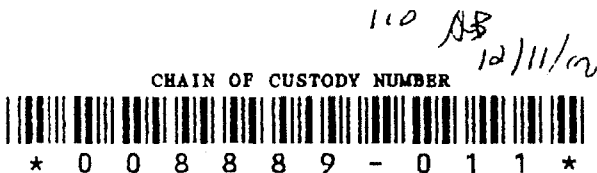
Client <b>E.I. Dupont De Nemours</b>		Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>		Page <u>32</u> of <u>38</u>						
Address <b>Barley Mill Plaza Building 27</b>		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>		Analysis						
City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>		E X P 8 8 3 2 0 1 1 L L	M S S 2 6 6 0 0 0 L L	I S C O L L	I C C L	T D S S O L	N 3 N 0 2 0	M 6 O 1 0	M 4 7 7
Project Number/Name <b>BAR</b>		Carrier/Waybill Number										
Contract/Purchase Order/Quote Number <b>CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>				QUOTE: 39097								

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAR-G- <del>72700H</del> -INFLOW-MS	12/9/02	1700	WATER	1L	AMBER	2	None	
BAR-G- <del>72700H</del> -INFLOW-MS			WATER	40mL	VIAL	3	1:1 HCL	
BAR-G- <del>72700H</del> -INFLOW-MS			WATER	250mL	AMBER	1	Conc H2SO4	
BAR-G- <del>72700H</del> -INFLOW-MSD			WATER	1L	AMBER	2	None	
BAR-G- <del>72700H</del> -INFLOW-MSD			WATER	40mL	VIAL	3	1:1 HCL	
BAR-G- <del>72700H</del> -INFLOW-MSD	12/9/02	1700	WATER	250mL	AMBER	1	Conc H2SO4	

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Turn Round Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
1. Relinquished By _____			Date _____ Time _____		1. Received By _____		Date _____ Time _____	
2. Relinquished By <i>J. Beek</i>			Date <i>12/10/02</i> Time <i>0800</i>		2. Received By <i>J. Beek</i>		Date <i>12/11/02</i> Time <i>0945</i>	
3. Relinquished By _____			Date _____ Time _____		3. Received By _____		Date _____ Time _____	
Comments								

Chain of Custody Record



**SEVERN  
TRENT  
SERVICES**

97698

Severn Trent Laboratories, Inc.

STL4119 (6700)

Client <b>E.I. Dupont De Nemours</b>		Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>11</u> of <u>38</u>
Address <b>Barley Mill Plaza Building 27</b>		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>	Analysis
City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>		
Project Number/Name <b>BAR</b>		Carrier/Waybill Number			

Contract/Purchase Order/Quote Number  
**CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568** QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M	
				Volume	Type	No.											
BAR-G-72910H-INFLOW	12/9/02	905	WATER	1L	AMBER	2	None		X								
BAR-G-72910H-INFLOW	12/9/02	905	WATER	250mL	AMBER	1	Conc H2SO4								X		

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

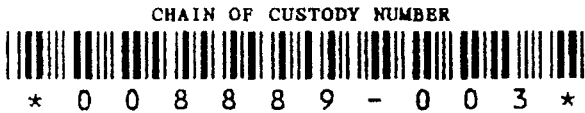
Possible Hazard Identification  
 Non-Hazard     Flammable     Skin Irritant     Poison B     Unknown  
 Return To Client     Disposal By Lab     Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required  
 Normal     Rush     Other \_\_\_\_\_  
 OC Level  
 I.     II.     III.

1. Relinquished By <i>Will Sweeney</i>	Date 12/5/02	Time	1. Received By <i>J. Beck</i>	Date 12/9/02	Time 0700
2. Relinquished By <i>J. Beck</i>	Date 12/10/02	Time 0800	2. Received By <i>Entirest</i>	Date 12/10/02	Time 0945
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

# Chain of Custody Record



**SEVERN  
TRENT  
SERVICES**

97690

Severn Trent Laboratories, Inc.

*J.D. JB, 12/11/02*

Client <b>E.I. Dupont De Nemours</b>		Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>3</u> of <u>38</u>
Address <b>Barley Mill Plaza Building 27</b>		Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>		Lab Location <b>STL Denver</b>	
City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>		
Project Number/Name <b>BAR</b>			Carrier/Waybill Number		
Contract/Purchase Order/Quote Number <b>CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>				QUOTE: <b>39097</b>	

Analysis												
E	M	I	I	T	N	M	M					
X	8	C	C	D	O	T	7					
P	8	S	C	S	3	6	4					
8	2	O	L	N	0	7						
3	6	4	:	0	1	0						
2	0	:	L	2	0	:						
1	:	L				:	L					
L	L					L						

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAR-G-30700N-INFLOW	12/9/02	1453	WATER	1L	AMBER	2	None	X
BAR-G-30700N-INFLOW	12/9/02	1458	WATER	250mL	AMBER	1	Conc H2SO4	X
BAR-G-30700N-EPFLUENT	12/9/02	1455	WATER	1L	AMBER	2	None	X

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Possible Hazard Identification <input checked="" type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months <small>(A fee may be assessed if samples are retained longer than 3 months)</small>		
Turn Around Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		
Project Specific Requirements (Specify)					
1 Relinquished By <i>W. S. ...</i>		Date <i>12/14/02</i>	Time <i>1800</i>	1 Received By <i>A. ...</i>	
2 Relinquished By <i>J. ...</i>		Date <i>12/10/02</i>	Time <i>1800</i>	2 Received By <i>P. ...</i>	
3 Relinquished By		Date	Time	3 Received By	
Date		Time	Date	Time	

Comments

# Chain of Custody Record

CHAIN OF CUSTODY NUMBER



\* 0 0 8 8 8 9 - 0 0 4 \*

SEVERN

TRENT

SERVICES

07691

Severn Trent Laboratories, Inc.

STL4149 (0700)

Client <b>E.I. Dupont De Nemours</b>			Project Manager <b>ADQM AP Services</b>			Date <b>12/04/2002</b>			Page <u>4</u> of <u>38</u>		
Address <b>Barley Mill Plaza Building 27</b>			Telephone Number (Area Code)/Fax Number (000) / (000)			Lab Location <b>STL Denver</b>			Analysis		
City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>			E	M	I	T	N	M
Project Number/Name <b>BAR</b>			Carrier/Waybill Number			X	S	C	C	D	O

Contract/Purchase Order/Quote Number  
**CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	T	N	M	M	
				Volume	Type	No.										
BAR-G-30810N-INFLOW	12/9/02	1830	WATER	1L	AMBER	2	None									
BAR-G-30810N-INFLOW	X	1830	WATER	40mL	VIAL	3	1:1 HCL		X							
BAR-G-30810N-INFLOW	X	1830	WATER	250mL	AMBER	1	Conc H2SO4						X			
BAR-G-30810N-EFFLUENT	12/9/02	1825	WATER	1L	AMBER	2	None	X								

Special Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

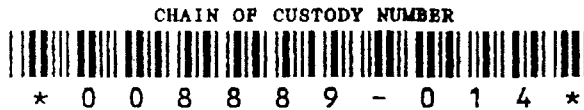
Possible Hazard Identification				Sample Disposal				(A fee may be assessed if samples are retained longer than 3 months)			
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months				

Turn Around Time Required			QC Level			Project Specific Requirements (Specify)					
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other _____	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.						

1. Relinquished By <i>Will Suborn</i>	Date 12/14/02	Time	1. Received By <i>J. B. ...</i>	Date 12/9/02	Time 0700
2. Relinquished By <i>J. B. ...</i>	Date 12/10/02	Time 0800	2. Received By <i>J. B. ...</i>	Date 12/11/02	Time 0945
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

# Chain of Custody Record



**SEVERN  
TRENT  
SERVICES**

97701

Severn Trent Laboratories, Inc.

STL4149 (0700)

Client <b>E.I. Dupont De Nemours</b>			Project Manager <b>ADQM AP Services</b>			Date <b>12/04/2002</b>			Page <u>14</u> of <u>38</u>				
Address <b>Barley Mill Plaza Building 27</b>			Telephone Number (Area Code)/Fax Number (000) / (000)			Lab Location <b>STL Denver</b>			Analysis				
City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>			<b>E</b>	<b>M</b>	<b>I</b>	<b>I</b>	<b>T</b>	<b>N</b>	<b>M</b>	<b>M</b>
Project Number/Name <b>BAR</b>			Carrier/Waybill Number			<b>X</b>	<b>S</b>	<b>C</b>	<b>C</b>	<b>D</b>	<b>O</b>	<b>T</b>	<b>7</b>
Contract/Purchase Order/Quote Number <b>CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>						<b>QUOTE: 39097</b>							
Contract/Purchase Order/Quote Number						<b>P</b>	<b>8</b>	<b>S</b>	<b>C</b>	<b>S</b>	<b>3</b>	<b>6</b>	<b>4</b>
Contract/Purchase Order/Quote Number						<b>8</b>	<b>2</b>	<b>0</b>	<b>L</b>	<b>N</b>	<b>0</b>	<b>7</b>	
Contract/Purchase Order/Quote Number						<b>3</b>	<b>6</b>	<b>4</b>	<b>:</b>	<b>0</b>	<b>1</b>	<b>0</b>	
Contract/Purchase Order/Quote Number						<b>2</b>	<b>0</b>	<b>:</b>	<b>L</b>	<b>2</b>	<b>0</b>	<b>:</b>	
Contract/Purchase Order/Quote Number						<b>1</b>	<b>:</b>	<b>L</b>		<b>:</b>	<b>L</b>		
Contract/Purchase Order/Quote Number						<b>L</b>	<b>L</b>			<b>L</b>			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
BAR-G-72520H-INFLOW	12/9/02	1631	WATER	1L	AMBER	2	None	X
BAR-G-72520H-INFLOW	12/9/02	1631	WATER	250mL	AMBER	1	Conc H2SO4	X
BAR-G-72520H-EFFLUENT	12/9/02	1625	WATER	1L	AMBER	2	None	X

Special Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)		
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	
Turn Around Time Required	QC Level	Project Specific Requirements (Specify)						
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other _____	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.			
1. Relinquished By: <i>Will Sarboan</i>	Date: 12/15/02	Time:	1. Received By: <i>A. Bell</i>	Date: 12/9/02	Time: 12:00			
2. Relinquished By: <i>J. Bell</i>	Date: 12/10/02	Time: 0800	2. Received By: <i>J. Bell</i>	Date: 12/11/02	Time: 0745			
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:			
Comments								

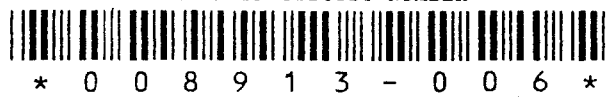
Chain of Custody  
Record



97786

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



Project Manager <b>Cary Pooler</b>		Date 12/10/2002	Page <u>6</u> of <u>35</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	

State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	Analysis
City Wilmington		Carrier/Waybill Number	

Contract/Purchase Order/Quote Number  
**CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568** QUOTE: 39097

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-71250H-INFLOW	12/11/02	1608	WATER	1L	AMBER	2	None	

Special Instructions: **Protocol K** 8321 Exp.

Potential Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
---	--	--

Around Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
--	--	---

Received By: <i>[Signature]</i>	Date: 12/10/02	Time:	1. Received By: <i>[Signature]</i>	Date: 12/11/02	Time: 1100
Received By: <i>[Signature]</i>	Date: 12/12/02	Time: 1030	2. Received By: <i>[Signature]</i>	Date: 12/13/02	Time: 0930
Received By:	Date:	Time:	3. Received By:	Date:	Time:

Chain of Custody Record

97788



Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 1 3 - 0 0 8 \*

Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002		Page <u>8</u> of <u>35</u>	
Address Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
City Birmingham	State DE	Zip Code 19805	Site Contact TIM RATSEP		E X P 8 3 2 1 L X		
Contract Number/Name		Carrier/Waybill Number					

Contract/Purchase Order/Quote Number  
**TRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568**      **QUOTE: 39097**

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-71210H-INFLOW	12/11/02	1625	WATER	1L	AMBER	2	None	

Special Instructions      **Protocol K**      **8321 Exp.**

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Around Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Inquired By <i>[Signature]</i>		Date 12/11/02		1. Received By <i>[Signature]</i>	
Inquired By <i>[Signature]</i>		Date 12/12/02 1030		2. Received By <i>[Signature]</i>	
Inquired By <i>[Signature]</i>		Date 12/13/02		3. Received By <i>[Signature]</i>	
Date 12/11/02		Time 1100		Date 12/13/02	
Date 12/13/02		Time 0930		Date 12/13/02	
Time 0930		Date 12/13/02		Time 0930	

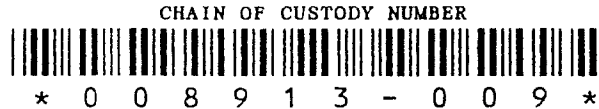
Comments

Chain of Custody Record



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Severn Trent Laboratories, Inc.



CHAIN OF CUSTODY NUMBER

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19 (0700)

Dupont De Nemours	Project Manager Cary Pooler	Date 12/10/2002	Page <u>9</u> of <u>35</u>
Key Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

State DE	Zip Code 19805	Site Contact TIM RATSEP	E
Contract Number/Name		Carrier/Waybill Number	X

Contract/Purchase Order/Quote Number  
**FACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-71205H-INFLOW	12/11/02	1618	WATER	1L	AMBER	2	None	X

Special Instructions      Protocol K      8321 Exp.

Hazardous Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Corrosive <input type="checkbox"/> Oxidizer <input type="checkbox"/> Other _____	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
---	--	--

Around time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Inquired By B. Beck	Date 12/10/02	Time	1. Received By <i>[Signature]</i>	Date 12/11/02	Time 1100
Inquired By J. Beck	Date 12/12/02	Time 1030	2. Received By <i>[Signature]</i>	Date 12/13/02	Time 0930
Inquired By	Date	Time	3. Received By	Date	Time



Chain of Custody  
Record

CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

Dupont De Nemours  
Project Manager: ADQM AP Services  
Date: 12/04/2002  
Page 12 of 38  
Telephone Number (Area Code)/Fax Number: (000) / (000)  
Lab Location: STL Denver

State: DE Zip Code: 19805  
Site Contact: ADQM AP Services  
Carrier/Waybill Number:   
Analysis Table:

E	M	I	I	T	N	M	M															
X	S	C	C	D	O	T	7															
P	8	S	C	S	3	6	4															
8	2	O	L	N	0	7																
3	6	4	:	:	0	1	0															
2	0	:	L	2	0	:																
1	:	L				:	L															
L	L						L															

Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER #: 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments																	
				Volume	Type	No.																			
R-G-7790H-INFLOW	12/11/02	1810	WATER	1L	AMBER	2	None	X																	
R-G-7790H-INFLOW	12/11/02	1810	WATER	40mL	VIAL	3	1:1 HCL	X																	
R-G-7790H-INFLOW	12/11/02	1810	WATER	250mL	AMBER	1	Conc H2SO4																		

Special Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification: Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown   
Sample Disposal: Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months   
(A fee may be assessed if samples are retained longer than 3 months)

QC Level: Normal  Rush  Other   
Project Specific Requirements (Specify):

Relinquished By: <i>Neil Salomon</i>	Date: 12/15/02	Time:	1. Received By: <i>J. Buech</i>	Date: 12/10/02	Time: 0700
Relinquished By: <i>J. Buech</i>	Date: 12/12/02	Time: 1030	2. Received By: <i>John G...</i>	Date: 12/13/02	Time: 0930
Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

Chain of Custody  
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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours			Project Manager <b>Cary Pooler</b>	Date <b>12/10/2002</b>	Page <u>28</u> of <u>35</u>
City Mill Plaza Building 27			Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location <b>STL Denver</b>	Analysis

City <b>Wilmington</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>	E X P 8 3 2 1 L X
Carrier/Waybill Number				

Contract/Purchase Order/Quote Number	ACT / PURCHASE ORDER # : <b>7035-507431-772000/LBIO-64568</b>	QUOTE: <b>39097</b>
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Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<b>11-G-717150-INFLOW</b>	<b>12/11/02</b>	<b>1745</b>	<b>WATER</b>	<b>1L</b>	<b>AMBER</b>	<b>2</b>	<b>None</b>	

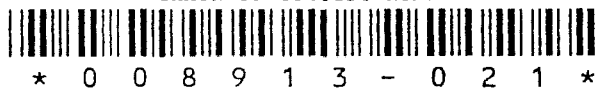
Instructions: **Protocol K** **8321 Exp.**

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)					
Round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)					
Acquired By <i>[Signature]</i>			Date <b>12/10/02</b> Time			1. Received By <i>[Signature]</i>			Date <b>12/11/02</b> Time <b>1100</b>		
Acquired By <i>[Signature]</i>			Date <b>12/17/02</b> Time <b>1030</b>			2. Received By <i>[Signature]</i>			Date <b>12/13/02</b> Time <b>0930</b>		
Acquired By			Date   Time			3. Received By			Date   Time		

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CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours	Project Manager <b>Cary Pooler</b>	Date 12/10/2002	Page <u>21</u> of <u>35</u>
Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location <b>STL Denver</b>	Analysis

ngton	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	E X P R 8 3 2 1 L X
Number/Name	Carrier/Waybill Number			

ct/Purchase Order/Quote Number  
**ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097**

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-29250E-INFLOW	12/11/02	1720	WATER	1L	AMBER	2	None	

il Instructions **Protocol K** **8321 Exp.**

Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

round Time Required:  Normal  Rush  Other \_\_\_\_\_

QC Level:  I.  II.  III.

Project Specific Requirements (Specify):

Requested By	Date	Time	1. Received By	Date	Time
<i>Handwritten Signature</i>	12/11/02	10:30	<i>Handwritten Signature</i>	12/11/02	1100
Requested By	Date	Time	2. Received By	Date	Time
<i>Handwritten Signature</i>	12/12/02	10:30	<i>Handwritten Signature</i>	12/12/02	0930
Requested By	Date	Time	3. Received By	Date	Time

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



(0700)

DuPont De Nemours		Project Manager Cary Pooler		Date 12/10/2002	Page <u>24</u> of <u>35</u>
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis

ngton	State DE	Zip Code 19805	Site Contact TIM RATSEP	E X P 8 3 2 1 L X
Number/Name		Carrier/Waybill Number		

Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-711150-INFLOW	12/11/02	1730	WATER	1L	AMBER	2	None	

Instructions Protocol K 8321 Exp.

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)	
Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)			
Acquired By <i>[Signature]</i>		Date <i>12/11/02</i> Time _____		1. Received By <i>[Signature]</i>		Date <i>12/11/02</i> Time <i>1100</i>	
Acquired By <i>[Signature]</i>		Date <i>12/12/02</i> Time <i>1030</i>		2. Received By <i>[Signature]</i>		Date <i>12/13/02</i> Time <i>0930</i>	
Acquired By _____		Date _____ Time _____		3. Received By _____		Date _____ Time _____	

Comments

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CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

(0700)

Project Manager **Cary Pooler**     Date **12/10/2002**     Page 17 of 35

Telephone Number (Area Code)/Fax Number (000) / (000)     Lab Location **STL Denver**

State **DE**     Zip Code **19805**     Site Contact **TIM RATSEP**     Analysis

Carrier/Waybill Number

ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568     QUOTE: 39097

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-29440E-INFLOW	12/11/02	1655	WATER	1L	AMBER	2	None	

Instructions **Protocol K**     8321 Exp.

Hazard Identification     Sample Disposal

Non-Hazard      Flammable      Skin Irritant      Poison B      Unknown      Return To Client      Disposal By Lab      Archive For \_\_\_\_\_ Months     (A fee may be assessed if samples are retained longer than 3 months)

QC Level     Project Specific Requirements (Specify)

I.      II.      III.

1. Received By *[Signature]*     Date 12/11/02     Time 1100

2. Received By *[Signature]*     Date 12/13/02     Time 0930

Comments

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002		Page <u>19</u> of <u>35</u>	
s y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
ington	State DE	Zip Code 19805	Site Contact TIM RATSEP				
Number/Name			Carrier/Waybill Number				

ct/Purchase Order/Quote Number  
 ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-2910E-INFLOW	12/11/02	1715	WATER	1L	AMBER	2	None	X

al Instructions Protocol K 8321 Exp.

ole Hazard Identification  
 on-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

round time Required  Rush  Other \_\_\_\_\_  
 QC Level  I.  II.  III. Project Specific Requirements (Specify)

inquired By <i>[Signature]</i>	Date 12/10/02	Time	1. Received By <i>[Signature]</i>	Date 12/11/02	Time 1100
inquired By <i>[Signature]</i>	Date 12/11/02	Time 1030	2. Received By <i>[Signature]</i>	Date 12/13/02	Time 0930
inquired By	Date	Time	3. Received By	Date	Time

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CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

(0700)

Dupont De Nemours	Project Manager <b>Cary Pooler</b>	Date 12/10/2002	Page <u>16</u> of <u>35</u>
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1100 Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis
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City Burlington	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	E X P 8 3 2 1 L X
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Carrier/Waybill Number	
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Contract/Purchase Order/Quote Number	QUOTE: 39097
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Contract / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568	
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Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
12-G-29145E-INFLOW	12/11/02	1640	WATER	1L	AMBER	2	None	

Special Instructions <b>Protocol K</b>	8321 Exp.
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Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)
---	--

QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
--	---

Received By <i>[Signature]</i>	Date 12/11/02	Time 1100
Received By <i>[Signature]</i>	Date 12/12/02	Time 1030
Received By <i>[Signature]</i>	Date 12/11/02	Time 0930

Chain of Custody  
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CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

01 (0700)

Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002		Page <u>18</u> of <u>35</u>
615 Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		

City: Dayton		State: DE	Zip Code: 19805	Site Contact TIM RATSEP			E X P 8 3 2 1 L X
Contract Number/Name				Carrier/Waybill Number			

Contract/Purchase Order/Quote Number				QUOTE: 39097		
Purchase Order / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568						

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
E-G-29380E-INFLOW	12/11/02	1705	WATER	1L	AMBER	2	None	

Special Instructions: Protocol K 8321 Exp.

<b>Available Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<b>Sample Disposal</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
--	---	--

<b>QC Level</b> <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	<b>Project Specific Requirements (Specify)</b>
---	--

<b>Received By</b> [Signature]	Date	Time	<b>Received By</b> [Signature]	Date	Time
	12/10/02			12/11/02	1100
	12/12/02	1030		12/13/02	0930
<b>Received By</b> [Signature]	Date	Time	<b>Received By</b> [Signature]	Date	Time



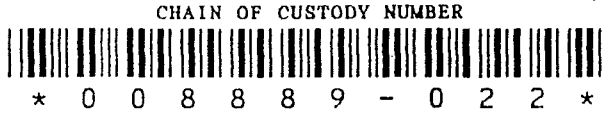
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Severn Trent Laboratories, Inc.



CHAIN OF CUSTODY NUMBER

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Dupont De Nemours 19 (0700)		Project Manager ADQM AP Services		Date 12/04/2002		Page <u>22</u> of <u>38</u>	
Address Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
City/State/Zip Code Wilmington DE 19805		Site Contact ADQM AP Services		Carrier/Waybill Number		E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 O L N 0 7 3 6 4 ; O 1 0 2 0 ; L 2 0 ; 1 ; L ; L L L L	
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568				QUOTE: 39097			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-71040H-INFLOW	12/12/02	0825	WATER	1L	AMBER	2	None	X
R-G-71040H-INFLOW	↑	0825	WATER	40mL	VIAL	3	1:1 HCL	X
R-G-71040H-INFLOW	↓	0825	WATER	250mL	AMBER	1	Conc H2SO4	X
R-G-71040H-EFFLUENT	12/12/02	0820	WATER	1L	AMBER	2	None	X

Special Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Sample Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Around Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Relinquished By: <i>Will Sorenson</i>		Date: 12/15/02 Time:		1. Received By: <i>J. Berch</i> Date: 12/10/02 Time: 0700	
Relinquished By: <i>J. Berch</i>		Date: 12/12/02 Time: 0930		2. Received By: <i>David St...</i> Date: 12/13/02 Time: 0930	
Relinquished By:		Date: Time:		3. Received By: Date: Time:	

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Project Manager <b>CARY POOLER</b>		Date <b>12/06/2002</b>	Page <u>13</u> of <u>15</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>	Analysis
State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>	
Carrier/Waybill Number			

CV/Purchase Order/Quote Number  
 ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-72040H-INFLOW-MS	12/12/02	0825	WATER	1L	AMBER	2	None	
<del>G-72040H-INFLOW-MS</del>			<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>	X NOT SAMPLED (TAL)
-G-72040H-INFLOW-MS	12/12/02	0825	WATER	250mL	AMBER	1	Conc H2SO4	X
-G-72040H-INFLOW-MSD	12/12/02	0825	WATER	1L	AMBER	2	None	X
<del>G-72040H-INFLOW-MSD</del>			<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>	X NOT SAMPLED (TAL)
-G-72040H-INFLOW-MSD	12/12/02	0825	WATER	250mL	AMBER	1	Conc H2SO4	X
-G-72040H-INFLOW-MS	12/12/02	0825	WATER	40mL	VIAL	3	1:1 HCL	X
-G-72040H-INFLOW-MSD	12/12/02	0825	WATER	40mL	VIAL	3	1:1 HCL	X

Instructions **PROTOCOL K**

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Acquired By <i>[Signature]</i>		Date 12/6/02		1. Received By <i>[Signature]</i>	
Acquired By <i>[Signature]</i>		Date 12/12/02 1030		2. Received By <i>[Signature]</i>	
Acquired By _____		Date _____		3. Received By _____	

Comments

CHAIN OF CUSTODY NUMBER



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9 (0700)

Dupont De Nemours	Project Manager ADQM AP Services	Date 12/04/2002	Page <u>28</u> of <u>38</u>
ss ey Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

ington	State DE	Zip Code 19805	Site Contact ADQM AP Services	E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 O L N 0 7 3 6 4 ; O 1 0 2 0 ; L 2 0 ; 1 ; L ; L L L
ct Number/Name	Carrier/Waybill Number			

ct/Purchase Order/Quote Number  
**RACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097**

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments																																		
				Volume	Type	No.																																				
R-G-73040BG-INFLOW	12/12/02	1105	WATER	1L	AMBER	2	None																																			
R-G-73040BG-INFLOW	12/12/02	1105	WATER	250mL	AMBER	1	Conc H2SO4																																			

al Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Multiple Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
Around Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
Inquished By <i>[Signature]</i>	Date 12/15/02 Time _____	1. Received By <i>[Signature]</i> Date 12/11/02 Time 1100
Inquished By <i>[Signature]</i>	Date 12/12/02 Time 1230	2. Received By _____ Date _____ Time _____
Inquished By _____	Date _____ Time _____	3. Received By _____ Date _____ Time _____

Chain of Custody  
Form

97790



Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours		Project Manager <b>Cary Pooler</b>		Date 12/10/2002	Page <u>10</u> of <u>35</u>
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis
State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>		Carrier/Waybill Number	
Purchase Order/Quote Number ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568		QUOTE: 39097			

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	
				Volume	Type	No.			
-G-71075H-INFLOW	12/12/02	1205	WATER	1L	AMBER	2	None		X

Instructions: Protocol K 3321 Exp.

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)
Round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			Project Specific Requirements (Specify)		

Received By	Date	Time	Received By	Date	Time
<i>J. Beech</i>	12/10/02		<i>J. Beech</i>	12/11/02	1100
<i>J. Beech</i>	12/12/02	1230	<i>J. Beech</i>	12/13/02	0930

Chain of Custody  
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12/13/02



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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER

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Project Manager <b>CARY POOLER</b>		Date <b>12/06/2002</b>	Page <u>14</u> of <u>15</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>	Analysis

State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>	M S 8 2 6 0 : L X	E X P 8 3 0 2 :	N O 3 N O 2 :
Carrier/Waybill Number					

Contract/Purchase Order/Quote Number  
**ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>R-G-71075H - INFLOW-DUP</del>	<del>12/12/02</del>	<del>1205</del>	<del>WATER</del>	<del>1L</del>	<del>AMBER</del>	<del>2</del>	<del>None</del>	<del></del>
<del>R-G- - INFLOW-DUP</del>	<del></del>	<del></del>	<del>WATER</del>	<del>10mL</del>	<del>VIAL</del>	<del>3</del>	<del>1+1 HCL</del>	<del>X</del> - NOT SAMPLED (TLC)
<del>R-G- - INFLOW-DUP</del>	<del></del>	<del></del>	<del>WATER</del>	<del>250mL</del>	<del>AMBER</del>	<del>1</del>	<del>Conc H2SO4</del>	<del>X</del> - NOT SAMPLED (TLC)

Special Instructions **PROTOCOL K**

Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I.  II.  III.

Project Specific Requirements (Specify)

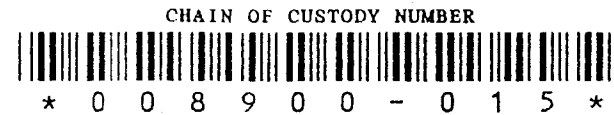
Acquired By <i>[Signature]</i>	Date <b>12/6/02</b>	Time	1. Received By <i>[Signature]</i>	Date <b>12/11/02</b>	Time <b>1100</b>
Acquired By <i>[Signature]</i>	Date <b>12/12/02</b>	Time <b>1230</b>	2. Received By <i>[Signature]</i>	Date <b>12/13/02</b>	Time <b>0930</b>
Acquired By	Date	Time	3. Received By	Date	Time

in of Custody  
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**SEVERN  
TRENT  
SERVICES**

Severn Trent Laboratories, Inc.



(0700)

Dupont De Nemours		Project Manager <b>CARY POOLER</b>		Date <b>12/06/2002</b>		Page <u>15</u> of <u>15</u>
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>		Analysis
ngton	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>			
Number/Name		Carrier/Waybill Number				

ct/Purchase Order/Quote Number  
**ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	E	N	S	X	O	8	P	3	2	8	N	6	3	O	0	2	2	!	1	L	L	X	
				Volume	Type	No.																										
-K-TBLK4	12/12/02	0730	WATER	40mL	VIAL	1	1:1 HCL																									

Instructions **PROTOCOL K**

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)						
Round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)						
Acquired By <i>[Signature]</i>			Date 12/6/02		Time 1030		1. Received By <i>[Signature]</i>		Date 12/10/02		Time 0700	
Acquired By <i>[Signature]</i>			Date 12/12/02		Time 1030		2. Received By <i>[Signature]</i>		Date 12/13/02		Time 0930	
Acquired By			Date		Time		3. Received By		Date		Time	

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**Chain of Custody Record**

97784

**SEVERN  
TRENT  
SERVICES**

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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9 (0700)

Dupont De Nemours		Project Manager <b>Cary Pooler</b>	Date 12/10/2002	Page <u>4</u> of <u>35</u>
55 by Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

ington	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	E X P 8 3 2 1 L X
t Number/Name			Carrier/Waybill Number	

Contract/Purchase Order/Quote Number  
**TRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample I D Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>R-G-71430H-INFLOW</del>			<del>WATER</del>	<del>1L</del>	<del>AMBER</del>	<del>2</del>	<del>None</del>	
<p><i>NO SAMPLE 12/11/02 J. Bell See comments</i></p>								

Special Instructions <b>Protocol K</b>			8321 Exp.			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Multiple Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			QC Level <input checked="" type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
Turnaround Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other			Date 12/12/02 Time 1030			1. Received By <i>J. Bell</i> Date 12/11/02 Time 1100		
Acquired By <i>J. Bell</i>			Date 12/12/02 Time 1030			2. Received By _____ Date _____ Time _____		
Acquired By _____			Date _____ Time _____			3. Received By _____ Date _____ Time _____		

Comments **HOUSE DOES NOT EXIST NOR FIKE NUMBER**

in of Custody  
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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours		Project Manager <b>Cary Pooler</b>		Date 12/10/2002		Page <u>20</u> of <u>35</u>	
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
ington	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>		E		
Number/Name		Carrier/Waybill Number		X			
Purchase Order/Quote Number		ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568		QUOTE: 39097			

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	
				Volume	Type	No.			
6-29275E-INFLOW	12/11/02		WATER	1L	AMBER	2	None		X
<p><i>NO SAMPLE 12/11/02 J Beck SEE COMMENTS</i></p>									

Instructions Protocol K 8321 Exp.

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
Acquired By <i>J Beck</i>		Date 12/14/02	Time 	1. Received By <i>J Beck</i>		Date 12/11/02	Time 1100	
Acquired By <i>J Beck</i>		Date 12/12/02	Time 1030	2. Received By <i>J Beck</i>		Date 	Time 	
Acquired By 		Date 	Time 	3. Received By 		Date 	Time 	

Comments NO HOUSE - EMPTY LOT FOR THIS NUMBER



Chain of Custody  
Record



97787

CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

Dupont De Nemours		Project Manager <b>Cary Pooler</b>	Date 12/10/2002	Page <u>7</u> of <u>35</u>
Address Key Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

City Birmingham	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	E X P 8 3 2 1 L X
Contract Number/Name		Carrier/Waybill Number		

Contract / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>R-G-71230H-INFLOW</del>	<del>12/11/02</del>		<del>WATER</del>	<del>1L</del>	<del>AMBER</del>	<del>2</del>	<del>None</del>	
<p><i>NOT SAMPLED 12/11/02 J. Beek SEE COMMENTS</i></p>								

Additional Instructions: Protocol K 8321 Exp.

<b>Sample Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<b>Sample Disposal</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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<b>QC Level</b> <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	<b>Project Specific Requirements (Specify)</b>
---	--

Received By <i>J. Beek</i>	Date 12/10/02	Time 1800
Received By <i>J. Beek</i>	Date 12/12/02	Time 1030
Received By	Date	Time

REMARKS: HOUSE NOT SAMPLED WATER SHUT OFF CLOSED FOR WINTER SEASON

Chain of Custody Record

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SERVICES

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002		Page <u>31</u> of <u>35</u>	
Address Way Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
City Wilmington	State DE	Zip Code 19805	Site Contact TIM RATSEP		EXPERIMENTAL		
Contract Number/Name		Carrier/Waybill Number					
Contract/Purchase Order/Quote Number TRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568				QUOTE: 39097			

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>NR-G- -INFLOW</del>			<del>WATER</del>	<del>1L</del>	<del>AMBER</del>	<del>2</del>	<del>None</del>	
<i>NOT SAMPLED 12/14/02 J Beck</i>								

Special Instructions Protocol K			8321 Exp.		
Potential Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Around Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		
Inquired By <i>J Beck</i>			Project Specific Requirements (Specify)		
Inquired By <i>J Beck</i>		Date 12/14/02	Time 1030	1. Received By <i>J Beck</i>	
Inquired By <i>J Beck</i>		Date 12/12/02	Time 1030	2. Received By <i>J Beck</i>	
Inquired By <i>J Beck</i>		Date	Time	3. Received By	

(A fee may be assessed if samples are retained longer than 3 months)

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SERVICES

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002		Page <u>29</u> of <u>35</u>	
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
ngton	State DE	Zip Code 19805	Site Contact TIM RATSEP		E		
Number/Name		Carrier/Waybill Number		X			
Purchase Order/Quote Number				QUOTE: 39097			
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568							

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	
				Volume	Type	No.			
-G- -INFLOW			WATER	1L	AMBER	2	None		X
<del>Not Sampled 12/11/02 J. Bell</del>									

Instructions Protocol K 3321 Exp.

Hazard Identification:  Non-Hazard,  Flammable,  Skin Irritant,  Poison B,  Unknown

Sample Disposal:  Return To Client,  Disposal By Lab,  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I,  II,  III

Project Specific Requirements (Specify)

Acquired By <i>J. Bell</i>	Date 12/10/02	Time	1. Received By <i>J. Bell</i>	Date 12/11/02	Time 1100
Acquired By <i>J. Bell</i>	Date 12/12/02	Time 1030	2. Received By	Date	Time
Acquired By	Date	Time	3. Received By	Date	Time

in of Custody  
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CHAIN OF CUSTODY NUMBER



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**SEVERN  
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SERVICES**

97810

Severn Trent Laboratories, Inc.

(0700)

Dupont De Nemours		Project Manager <b>Cary Pooler</b>		Date <b>12/10/2002</b>		Page <u>30</u> of <u>35</u>	
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>		Analysis	
ngton	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>		E X P 8 3 2 1 L X		
Number/Name		Carrier/Waybill Number					

CT/Purchase Order/Quote Number  
**ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>6 - INFLOW</del>			WATER	1L	AMBER	2	None	
<i>Not Sampled 12/11/02 J. Beck</i>								

al Instructions **Protocol K** **8321 Exp.**

Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 3 months)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)			
Acquired By <i>J. Beck</i>	Date <b>12/10/02</b>	Time 	1. Received By <i>J. Beck</i>	Date <b>12/11/02</b>	Time <b>1100</b>
Acquired By <i>J. Beck</i>	Date <b>12/14/02</b>	Time <b>1030</b>	2. Received By	Date	Time
Acquired By	Date	Time	3. Received By	Date	Time

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CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

(0700)

Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2003</b>	Page <u>21</u> of <u>38</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>	Analysis

State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>	E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 O L N O 7 3 6 4 ; O 1 0 2 0 ; L 2 0 ; 1 ; L ; L L L ; L
Number/Name		Carrier/Waybill Number	

Purchase Order/Quote Number <b>ACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568</b>		QUOTE: 39097
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Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-72330H-INFLOW	12/10/02	1330	WATER	1L	AMBER	2	None	X
G-72330H-INFLOW	↑	1330	WATER	40mL	VIAL	3	1:1 HCL	X
G-72330H-INFLOW	↓	1330	WATER	250mL	AMBER	1	Conc H2SO4	X
G-72330H-EPFLUENT	12/10/02	1325	WATER	1L	AMBER	2	None	X

Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Hazard Identification <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
--	--	--

QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
--	---

Received By <i>Will Subson</i>	Date 12/14/02	Time	1. Received By <i>J. Beck</i>	Date 12/10/02	Time 0700
Received By <i>J. Beck</i>	Date 12/11/02	Time 0900	2. Received By <i>Jim Jones</i>	Date 12/12/02	Time 0945

Chain of Custody  
Form

(0700)

CHAIN OF CUSTODY NUMBER



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**SEVERN  
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SERVICES**

97710

Severn Trent Laboratories, Inc.

Client Name Dupont De Nemours		Project Manager ADQM AP Services		Date 12/04/2002		Page <u>23</u> of <u>38</u>		
Address Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis		
City Canton	State DE	Zip Code 19805	Site Contact ADQM AP Services		E M I I T N M M X S C C D O T 7			
Carrier/Name Number/Name		Carrier/Waybill Number		P 8 S C S 3 6 4 8 2 0 L N 0 7 3 6 4 ; 0 1 0 2 0 ; L 2 0 ; 1 ; L ; L L L ; L				
Purchase Order/Quote Number CT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568				QUOTE: 39097				
Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-CLUBHOUSE-INFLOW	12/10/02	1350	WATER	1L	AMBER	2	None	X
G-CLUBHOUSE-INFLOW	12/10/02	1350	WATER	250mL	AMBER	1	Conc H2SO4	X
G-CLUBHOUSE-EFFLUENT	12/10/02	1345	WATER	1L	AMBER	2	None	X

Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Lead Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Received By <i>[Signature]</i>	Date 12/15/02	Time	1. Received By <i>[Signature]</i>	Date 12/10/02	Time 0700
Received By <i>[Signature]</i>	Date 12/11/02	Time 0900	2. Received By <i>[Signature]</i>	Date 12/12/02	Time 0918
Received By	Date	Time	3. Received By	Date	Time

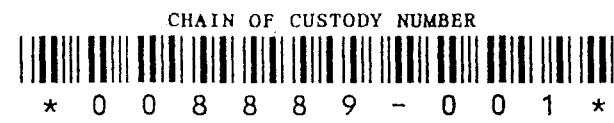
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Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>1</u> of <u>38</u>
Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>		Lab Location <b>STL Denver</b>	Analysis
State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>	
Carrier/Waybill Number		Purchase Order/Quote Number <b>QUOTE: 39097</b>	
Purchase Order/Quote Number <b>CT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>			

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M								
				Volume	Type	No.																		
G-29600N-INFLOW	12/10/02	1826	WATER	1L	AMBER	2	None		X															
G-29600N-INFLOW			WATER	40mL	VIAL	3	1:1 HCL		X															
G-29600N-INFLOW			WATER	250mL	AMBER	1	Conc H2SO4								X									
G-29600N-INFLOW			WATER	500mL	PLASTIC	1	Conc HNO3									X	X							
G-29600N-INFLOW			WATER	1000mL	PLASTIC	1	None				X	X	X											
G-29600N-INFLOW-MS			WATER	1L	AMBER	2	None		X															
G-29600N-INFLOW-MS			WATER	40mL	VIAL	3	1:1 HCL		X															
G-29600N-INFLOW-MS			WATER	250mL	AMBER	1	Conc H2SO4								X									
G-29600N-INFLOW-MS			WATER	500mL	PLASTIC	1	Conc HNO3									X	X							
G-29600N-INFLOW-MS			WATER	1000mL	PLASTIC	1	None				X	X	X											
G-29600N-INFLOW-MSD			WATER	1L	AMBER	2	None		X															
G-29600N-INFLOW-MSD			WATER	40mL	VIAL	3	1:1 HCL		X															
G-29600N-INFLOW-MSD			WATER	250mL	AMBER	1	Conc H2SO4								X									
G-29600N-INFLOW-MSD			WATER	500mL	PLASTIC	1	Conc HNO3									X	X							
G-29600N-INFLOW-MSD	12/10/02	1826	WATER	1000mL	PLASTIC	1	None				X	X	X											

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Special Handling <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Acquired By <i>Will Sadowski</i>	Date 12/11/02	Time	1. Received By <i>J. Beck</i>	Date 12/10/02	Time 0700
Acquired By <i>J. Beck</i>	Date 12/11/02	Time 0900	2. Received By <i>[Signature]</i>	Date 12/10/02	Time 0945
Acquired By	Date	Time	3. Received By	Date	Time

CAUTION: WHITE - Stays with the Sample. CANARY - Returned to Client with Report. PINK - Field Copy

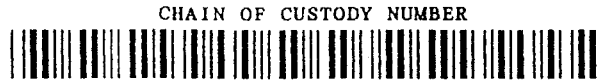
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Project Manager <b>CARY POOLER</b>			Date <b>12/06/2002</b>		Page <b>12</b> of <b>15</b>										
Telephone Number (Area Code)/Fax Number (000) / (000)			Lab Location <b>STL Denver</b>		Analysis										
State <b>DE</b>		Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>		M E N S X O 8 P 3 2 8 N 6 3 O 0 2 2 : 1 L L X										
Carrier/Waybill Number			Purchase Order/Quote Number <b>QUOTE: 39097</b>		: 1 L L X										
Purchase Order/Quote Number <b>CT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>															
Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments							
				Volume	Type	No.									
<del>G-73150BJ-INFLOW</del>	<del>12/10/02</del>	<del>1525</del>	<del>WATER</del>	<del>1L</del>	<del>AMBER</del>	<del>2</del>	<del>None</del>	<del></del>	<del>NO SAMPLE 12/10/02 ABOR</del>						
<del>G-73150BJ-INFLOW</del>	<del>12/10/02</del>	<del>1525</del>	<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>	<del></del>							
G-73150BJ-INFLOW	12/10/02	1525	WATER	250mL	AMBER	1	Conc H2SO4								

Instructions **PROTOCOL K**

Hazard Identification <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)				
Fulfilled By <i>[Signature]</i>		Date <i>12/6/02</i>	Time <i></i>	1. Received By <i>[Signature]</i>		Date <i>12/10/02</i>	Time <i>1400</i>	
Fulfilled By <i>[Signature]</i>		Date <i>12/11/02</i>	Time <i>0900</i>	2. Received By <i>[Signature]</i>		Date <i>12/12/02</i>	Time <i>0945</i>	
Fulfilled By		Date	Time	3. Received By		Date	Time	

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Chain of Custody Form

CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

Client Name: Dupont De Nemours, Project Manager: CARY POOLER, Date: 12/06/2002, Page: 9 of 15

Address: Mill Plaza Building 27, Telephone Number: (000) / (000), Lab Location: STL Denver, Analysis

City: Dayton, State: DE, Zip Code: 19805, Site Contact: TIM RATSEP

Carrier/Waybill Number

Purchase Order/Quote Number: CT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568, QUOTE: 39097

Table with columns: Sample I.D. Number and Description, Date, Time, Sample Type, Containers (Volume, Type, No.), Preservative, Condition on Receipt/Comments. Includes handwritten entries for three samples.

Instructions: PROTOCOL K

Hazard Identification: Flammable, Skin Irritant, Poison B, Unknown, Return To Client, Disposal By Lab (checked), Archive For, Months. (A fee may be assessed if samples are retained longer than 3 months)

QC Level: I, II, III, Project Specific Requirements (Specify)

Received By: J. Beck, Date: 12/10/02, Time: 1400

Received By: J. Beck, Date: 12/11/02, Time: 0900

Received By: J. Beck, Date: 12/12/02, Time: 0945

Comments

Chain of Custody  
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Severn Trent Laboratories, Inc.

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Client: Dupont De Nemours	Project Manager: ADQM AP Services	Date: 12/04/2002	Page: 9 of 38
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Address: Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location: STL Denver	Analysis
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City: Dayton	State: DE	Zip Code: 19805	Site Contact: ADQM AP Services
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Order Number: [Blank]	Carrier/Waybill Number
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Purchase Order/Quote Number: [Blank]	QUOTE: 39097
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Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M
				Volume	Type	No.										
G-73110H-INFLOW	12/10/02	1235	WATER	1L	AMBER	2	None	X								
G-73110H-INFLOW	12/10/02	1235	WATER	250mL	AMBER	1	Conc H2SO4							X		
G-73110H-EFFLUENT	12/10/02	1230	WATER	1L	AMBER	2	None	X								

Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification: <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal: <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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Lead Time Required: <input type="checkbox"/> Rush <input type="checkbox"/> Other	QC Level: <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Received By: [Signature]	Date: 12/15/02	Time: [Blank]	1. Received By: [Signature]	Date: 12/19/02	Time: 0700
Received By: [Signature]	Date: 12/16/02	Time: 0800	2. Received By: [Signature]	Date: 12/16/02	Time: 0940
Received By: [Blank]	Date: [Blank]	Time: [Blank]	3. Received By: [Blank]	Date: [Blank]	Time: [Blank]

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Severn Trent Laboratories, Inc.

DuPont De Nemours		Project Manager ADQM AP Services		Date 12/04/2002		Page <u>15</u> of <u>38</u>	
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	

City gton	State DE	Zip Code 19805	Site Contact ADQM AP Services	E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 O L N O 7 3 6 4 ; O 1 0 2 0 ; L 2 0 ; 1 ; L ; L L L ; L
Carrier/Name			Carrier/Waybill Number	

Purchase Order/Quote Number  
CT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments											
				Volume	Type	No.													
6-72410H-INFLOW	12/10/02	1700	WATER	1L	AMBER	2	None												
6-72410H-INFLOW	12/10/02	1700	WATER	40mL	VIAL	3	1:1 HCL												
6-72410H-INFLOW	12/10/02	1700	WATER	250mL	AMBER	1	Conc H2SO4												
6-72410H-EFFLUENT	12/10/02	1655	WATER	1L	AMBER	2	None												

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification				Sample Disposal				(A fee may be assessed if samples are retained longer than 3 months)			
Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For _____ Months							

Lead Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)					
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Received By <i>Will S...</i>	Date 12/15/02	Time	Received By <i>A. Beck</i>	Date 12/10/02	Time 0700
Received By <i>A. Beck</i>	Date 12/11/02	Time 0900	Received By <i>[Signature]</i>	Date 12/12/02	Time 0945
Received By	Date	Time	Received By	Date	Time

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Point De Nemours      Project Manager: ADQM AP Services      Date: 12/04/2002      Page 16 of 38

Mill Plaza Building 27      Telephone Number (Area Code)/Fax Number (000) / (000)      Lab Location: STL Denver

State: DE      Zip Code: 19805      Site Contact: ADQM AP Services      Analysis

Purchase Order/Quote Number      Carrier/Waybill Number

QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M
				Volume	Type	No.										
S-72420H-INFLOW	12/10/02	1645	WATER	1L	AMBER	2	None									
S-72420H-INFLOW	12/10/02	1645	WATER	250mL	AMBER	1	Conc H2SO4									
S-72420H-EFFLUENT	12/10/02	1640	WATER	1L	AMBER	2	None									

Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification:  Flammable  Skin Irritant  Poison B  Unknown      Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I.  II.  III.      Project Specific Requirements (Specify)

Quished By: <i>Will Swanson</i>	Date: 12/15/02	Time:	1. Received By: <i>J. Beck</i>	Date: 12/10/02	Time: 0700
Quished By: <i>J. Beck</i>	Date: 12/11/02	Time: 0900	2. Received By: <i>J. Beck</i>	Date: 12/12/02	Time: 0945
Quished By:	Date:	Time:	3. Received By:	Date:	Time:

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Severn Trent Laboratories, Inc.

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Project Manager <b>Cary Pooler</b>		Date <b>10/31/2002</b>	Page <u>1</u> of <u>4</u>
Telephone Number (Area Code)/Fax Number <b>(580) 767-6967 / (000)</b>		Lab Location <b>STL Denver</b>	Analysis
State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>CARY POOLER</b>	
Carrier/Waybill Number			

Purchase Order/Quote Number  
**CT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	N	I	I	T	M
				Volume	Type	No.								
G-29600N - INFLOW	12/13/02	0945	WATER	1L	AMBER	2	None							
G-29600N - INFLOW			WATER	40mL	VIAL	3	1:1 HCL							
G-29600N - INFLOW			WATER	250mL	AMBER	1	Conc H2SO4			X				
G-29600N - INFLOW			WATER	500mL	PLASTIC	1	Conc HNO3							X
G-29600N - INFLOW			WATER	1000mL	PLASTIC	1	None				X	X	X	
G-29600N - INFLOW - MS			WATER	1L	AMBER	2	NONE	X						
G-29600N - INFLOW - MS			WATER	40mL	VIAL	3	1:1 HCL		X					
G-29600N - INFLOW - MS			WATER	250mL	AMBER	1	CONC H2SO4			X				
G-29600N - INFLOW - MS			WATER	500mL	PLASTIC	1	CONC HNO3							X
G-29600N - INFLOW - MS			WATER	1000mL	PLASTIC	1	NONE				X	X	X	
G-29600N - INFLOW - MS			WATER	1L	AMBER	2	NONE	X						
G-29600N - INFLOW - MS			WATER	40mL	VIAL	3	1:1 HCL		X					
G-29600N - INFLOW - MS			WATER	250mL	AMBER	1	CONC H2SO4			X				
G-29600N - INFLOW - MS			WATER	500mL	PLASTIC	1	CONC HNO3							X
G-29600N - INFLOW - MS	12/13/02	0945	WATER	1000mL	PLASTIC	1	NONE			X	X	X		

Instructions  
**Protocol K** **7 day TAT**  
**8321, 8260, N3N2, Cl, SO4, TDS, total metals**

Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 (A fee may be assessed if samples are retained longer than 3 months)

QC Level  I.  II.  III. Project Specific Requirements (Specify)

Acquired by <i>[Signature]</i>	Date 12/31/02	Time	1. Received By <i>[Signature]</i>	Date 12/12/02	Time 1600
Acquired by <i>[Signature]</i>	Date 12/13/02	Time 1000	2. Received By <i>[Signature]</i>	Date 12/14/02	Time 0900
Acquired by	Date	Time	3. Received By	Date	Time

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DuPont De Nemours		Project Manager ADQM AP Services		Date 12/04/2002	Page <u>24</u> of <u>38</u>
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis
State DE	Zip Code 19805	Site Contact ADQM AP Services		E M I I T N M M X S C C D O T 7 P S C S 3 6 4 8 2 0 L N 0 7 3 6 4 ; O 1 0 2 0 ; L 2 0 ; I ; L ; L	
Number/Name		Carrier/Waybill Number			

Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-73120BG-INFLOW	12/12/02	1350	WATER	1L	AMBER	2	None	X
-G-73120BG-INFLOW	12/12/02	1350	WATER	250mL	AMBER	1	Conc H2SO4	X
-G-73120BG-EFFLUENT	12/12/02	1345	WATER	1L	AMBER	2	None	X

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)	
Lead Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)		
Acquired By <i>[Signature]</i>			Date 12/15/02	Time	1. Received By <i>[Signature]</i>		
Acquired By <i>[Signature]</i>			Date 12/13/02	Time 0800	2. Received By <i>[Signature]</i>		
Acquired By			Date	Time	3. Received By		

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Severn Trent Laboratories, Inc.

Dupont De Nemours  
 Project Manager: CARY POOLER  
 Date: 12/06/2002  
 Page 4 of 15

Mill Plaza Building 27  
 Telephone Number (Area Code)/Fax Number (000) / (000)  
 Lab Location: STL Denver  
 Analysis

State DE Zip Code 19805  
 Site Contact: TIM RATSEP  
 Number/Name  
 Carrier/Waybill Number

Purchase Order/Quote Number  
 ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>G-30600N-INFLOW</del>			WATER	1L	AMBER	2	None	
<del>G-30600N-INFLOW</del>			WATER	10mL	VIAL	3	1:1 HCL	X
<del>G-30600N-INFLOW</del>			WATER	250mL	AMBER	1	Conc H2SO4	X
<del>B-6-30600N-INFLOW</del>			water	250mL	Amber	1	H2SO4	X

~~NO SAMPLE  
12/13/02  
J Beck  
SEE COMMENTS~~

M	E	N																		
S	X	O																		
8	P	3																		
2	8	N																		
6	3	O																		
0	2	2																		
1																				
L	L																			
X																				

~~NOT SAMPLED  
NOT SAMPLED~~

Instructions: PROTOCOL K

Hazard Identification: Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown   
 Sample Disposal: Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I.  II.  III.  
 Project Specific Requirements (Specify)

Acquired By: [Signature]	Date: 12/8/02	Time:	1. Received By: [Signature]	Date: 12/11/02	Time: 1100
Acquired By: J Beck	Date: 12/13/02	Time: 0900	2. Received By:	Date:	Time:
Acquired By:	Date:	Time:	3. Received By:	Date:	Time:

NO ONE AT RESIDENCE

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Severn Trent Laboratories, Inc.

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Project Manager <b>ADQM AP Services</b>		Date <b>12/04/2002</b>	Page <u>31</u> of <u>38</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>	Analysis
Site Contact <b>ADQM AP Services</b>			

State <b>DE</b>	Zip Code <b>19805</b>	Carrier/Waybill Number	<table border="1"> <tr><td>E</td><td>M</td><td>I</td><td>I</td><td>T</td><td>N</td><td>M</td><td>M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>X</td><td>S</td><td>C</td><td>C</td><td>D</td><td>O</td><td>T</td><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>P</td><td>8</td><td>S</td><td>C</td><td>S</td><td>3</td><td>6</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>2</td><td>O</td><td>L</td><td>N</td><td>0</td><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>6</td><td>4</td><td>:</td><td>O</td><td>1</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>0</td><td>:</td><td>L</td><td>2</td><td>0</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>:</td><td>L</td><td></td><td>:</td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L</td><td>L</td><td></td><td></td><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	E	M	I	I	T	N	M	M													X	S	C	C	D	O	T	7													P	8	S	C	S	3	6	4													8	2	O	L	N	0	7														3	6	4	:	O	1	0														2	0	:	L	2	0	:														1	:	L		:	L															L	L				L														
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Purchase Order/Quote Number <b>CT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568</b>		QUOTE: <b>39097</b>																																																																																																																																																																	

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>G-31120BG-INFLOW</del>			WATER	1L	AMBER	2	None	
<del>G-31120BG-INFLOW</del>			WATER	40mL	VIAL	3	1:1 HCL	
<del>G-31120BG-INFLOW</del>			WATER	250mL	AMBER	1	Conc H2SO4	
<del>G-31120BG-EFFLUENT</del>			WATER	1L	AMBER	2	None	
<p><i>NO SAMPLE 12/12/02 A Beck</i></p> <p><i>SEE COMMENTS</i></p>								

Instructions **Quote 39097-K Resident Wells 12/02 (BAR)**

Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)
<input type="checkbox"/> Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

<input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
--	---	---

Quished By	Date	Time	1. Received By	Date	Time
<i>A Beck</i>	<i>12/13/02</i>	<i>0800</i>	<i>A Beck</i>	<i>12/11/02</i>	<i>1100</i>
Quished By	Date	Time	2. Received By	Date	Time
Quished By	Date	Time	3. Received By	Date	Time

Comments **NO ONE AT RESIDENCE**



Chain of Custody  
Form

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 0 0 - 0 1 1 \*

**SEVERN  
TRENT  
SERVICES**

97766

Severn Trent Laboratories, Inc.

Client Name Pont De Nemours	Project Manager CARY POOLER	Date 12/06/2002	Page <u>11</u> of <u>15</u>
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Address Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis
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State DE	Zip Code 19805	Site Contact TIM RATSEP	M E N S X O S P 3 2 8 N 6 3 O 0 2 2 1 1 L L X
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Carrier/Waybill Number	Purchase Order/Quote Number
------------------------	-----------------------------

Order / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568	QUOTE: 39097
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Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>73300BC-INFLOW</del>			WATER	1L	AMBER	2	None	
<del>73300BC-INFLOW</del>			WATER	40mL	VIAL	3	1:1 HCl	<del>NO SAMPLE 12/12/02</del>
<del>73300BC-INFLOW</del>			WATER	250mL	AMBER	1	Conc H2SO4	<del>X</del>

NO SAMPLE  
12/12/02  
J Beck  
SEE COMMENTS

Instructions PROTOCOL K
----------------------------

Hazard Identification <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
--	--	--

QC Level <input checked="" type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
---	---

Received By <i>J Beck</i>	Date 12/6/02	Time	1. Received By <i>J Beck</i>	Date 12/10/02	Time 1400
Received By	Date 12/13/02	Time 0800	2. Received By	Date	Time
Received By	Date	Time	3. Received By	Date	Time

NO ONE AT RESIDENCE

n of Custody  
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CHAIN OF CUSTODY NUMBER



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SEVERN

TRENT

SERVICES

97781

Severn Trent Laboratories, Inc.

(07/00)

Report De Nemours	Project Manager <b>Cary Pooler</b>	Date <b>12/10/2002</b>	Page <u>1</u> of <u>35</u>
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Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location <b>STL Denver</b>	Analysis
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City <b>Ston</b>	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>	E X P S 3 2 1 L X
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Carrier/Waybill Number	Carrier/Waybill Number
------------------------	------------------------

Purchase Order/Quote Number CT / PURCHASE ORDER # : <b>7035-507431-772000/LBIO-64568</b>	QUOTE: <b>39097</b>
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Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<del>6-71500H-INFLOW</del>			<del>WATER</del>	<del>1L</del>	<del>AMBER</del>	<del>2</del>	<del>None</del>	
<i>NO SAMPLE 12/12/02 J. Berk SEE COMMENTS</i>								

Instructions <b>Protocol K</b>	<b>8321 Exp.</b>
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Hazard Identification Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
--	--	--

Lead Time Required Lead <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Quashed By <i>J. Berk</i>	Date <i>12/10/02</i>	Time	1. Received By <i>J. Berk</i>	Date <i>12/14/02</i>	Time <i>1100</i>
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Quashed By <i>J. Berk</i>	Date <i>12/13/02</i>	Time <i>0800</i>	2. Received By	Date	Time
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Quashed By	Date	Time	3. Received By	Date	Time
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NO ONE AT RESIDENCE

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CHAIN OF CUSTODY NUMBER



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102-15  
12/11/02

**SEVERN  
TRENT  
SERVICES**

37813

Severn Trent Laboratories, Inc.

(6700)

Dupont De Nemours	Project Manager Cary Pooler	Date 12/10/2002	Page <u>33</u> of <u>35</u>
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Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location SIL Denver	Analysis
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ington	State DE	Zip code 19805	Site Contact TIM RATSEP	E X P S 3 2 1 L X
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Number/Name	Carrier Waybill Number
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Purchase Order Quote Number ACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568	QUOTE: 39097
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Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-30200M-INFLOW-DUP	12/11/02	1530	WATER	1L	AMBER	2	None	

Instructions	Protocol K	8321 Exp.
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Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Active For _____ Months	

QC Level	Project Specific Requirements (Specify)
<input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	

Acquired by: <i>J. Beck</i> Date: 12/10/02 Time:	1. Received By: <i>J. Beck</i> Date: 12/11/02 Time: 1100
Acquired by: <i>J. Beck</i> Date: 12/12/02 Time: 1030	2. Received By:
Acquired by:	3. Received By:

Comments
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Chain of Custody Record

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 1 3 - 0 1 2 \*

**SEVERN  
TRENT  
SERVICES**

37792

Severn Trent Laboratories, Inc.

Project Manager <b>Cary Pooler</b>		Date <b>12/10/2002</b>	Page <u>12</u> of <u>35</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>	Analysis
State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>	
Project/Purchase Order/Quote Number <b>FACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-6456S</b>		Quote: <b>39097</b>	

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No		
R-G-30190M-INFLOW	12/11/02	1520	WATER	1L	AMBER	2	None	

Instructions: **Protocol K** 3321 Exp.

Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Received By	Date	Time	1. Received By	Date	Time
<i>[Signature]</i>			<i>[Signature]</i>	12/11/02	1100
Received By	Date	Time	2. Received By	Date	Time
<i>[Signature]</i>	12/12/02	1030			
Received By	Date	Time	3. Received By	Date	Time



\* 0 0 8 9 1 3 - 0 1 4 \*

Dupont De Nemours Project Manager  
Cary Pooler Date  
12/10/2002  
Telephone Number (Area Code): Fax Number  
(000) / (000) Lab Location  
STL Denver

State DE Zip Code 19805 Site Contact  
TIM RATSEP  
 Number/Name Carrier Waybill Number

Product/Purchase Order/Quote Number  
**ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E X P O S E D I N G
				Volume	Type	No			
1-G-30095M-INFLOW	12/11/02	1540	WATER	1L	AMBER	2	None		

Instructions **Protocol K** 8321 Exp.

Sample Disposal:  Return To Client  Disposal By Lab  Archive For    Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I.  II.  III.

Received By: <i>[Signature]</i>	Date: 12/10/02	Time:	1. Received By: <i>[Signature]</i>	Date: 12/11/02	Time: 1100
Received By: <i>[Signature]</i>	Date: 12/12/02	Time: 1030	2. Received By: <i>[Signature]</i>	Date:	Time:
Received By: <i>[Signature]</i>	Date:	Time:	3. Received By: <i>[Signature]</i>	Date:	Time:

Comments

Chain of Custody  
Record

**SEVERN  
TRENT  
SERVICES**

97812

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 1 3 - 0 3 2 \*

Client Name <b>Dupont de Nemours</b>		Project Manager <b>Cary Pooler</b>		Date <b>12/10/2002</b>		Page <u>32</u> of <u>35</u>	
Address <b>Mill Plaza Building 27</b>		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location <b>STL Denver</b>		Analysis	
State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>TIM RATSEP</b>		Carrier Waybill Number		Analysis	
Product/Purchase Order/Quote Number <b>ACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568</b>		Quote <b>QUOTE: 39097</b>				Analysis	

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E X P 8 3 2 1 L
				Volume	Type	No			
-G-300 9.5M -INFLOW-MS	12/11/02	1540	WATER	1L	AMBER	2	None		X
-G-300 9.5M -INFLOW-MSD	12/11/02	1540	WATER	1L	AMBER	2	None		X

Additional Instructions: **Protocol K** **8321 Exp.**

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<b>Sample Disposal</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
<b>GC Level</b> <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	<b>Project Specific Requirements (Specify)</b>				
Received By <i>[Signature]</i>	Date 12/11/02	Time	1. Received By <i>[Signature]</i>	Date 12/11/02	Time 1100
Received By <i>[Signature]</i>	Date 12/12/02	Time 1030	2. Received By 	Date	Time
Received By 	Date	Time	3. Received By 	Date	Time

DISTRIBUTION: WHITE - Stays with the Sample. CANARY - Returns to Client with Report. PINK - Field Copy

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CHAIN OF CUSTODY NUMBER



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**SEVERN  
TRENT  
SERVICES**

57793

Severn Trent Laboratories, Inc.

Dupont De Nemours  
Project Manager: Cary Pooler  
Date: 12/10/2002  
Page 13 of 35

Telephone Number (Area Code/Fax Number):  
(000) / (000)  
Lab Location: STL Denver  
Analysis

State: DE Zip Code: 19805  
Site Contact: TIM RATSEP

Carrier Waybill Number

Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-30175M-INFLOW	12/11/02	1550	WATER	1L	AMBER	2	None	

Instructions: Protocol K 8321 Exp.

Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I.  II.  III. Project Specific Requirements (Specify):

Received By: 1. Received By: J. Beck Date: 12/10/02 Time: 1100  
2. Received By: J. Beck Date: 12/12/02 Time: 1030  
3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

UTION: WHITE - Stays with the Sample; CANARY - Returns to Client with Report; PINK - Field Copy

Chain of Custody  
Record

380

37791



Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 1 3 - 0 1 1 \*

Dupont De Nemours Project Manager  
Cary Pooler Date  
12/10/2002 Page 11 of 35  
 Telephone Number (Area Code)/Fax Number Lab Location  
STL Denver

State DE Zip Code 19805 Site Contact  
TIM RATSEP

Contract / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-30200M-INFLOW	12/11/02	1530	WATER	1L	AMBER	2	None	

Special Instructions Protocol K 3321 Exp.

Sample Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown
 Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months
(A fee may be assessed if samples are retained longer than 3 months)

Turnaround Time Required:  Normal  Rush  Other \_\_\_\_\_
 QC Level:  I.  II.  III.
Project Specific Requirements (Specify)

Acquired by	Date	Time	Received By	Date	Time
<i>[Signature]</i>	12/10/02		<i>[Signature]</i>	12/11/02	1100
<i>[Signature]</i>	12/12/02	1030			

Comments



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# Chain of Custody Record

87795

**SEVERN**  
**TRENT**  
**SERVICES**

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

**Dupont De Nemours** Project Manager **Cary Pooler** Date **12/10/2002** Page 15 of 35

Address: **Mill Plaza Building 27** Telephone Number (Area Code)/Fax Number (000) / (000) Lab Location **STL Denver** Analysis

**ington** State **DE** Zip Code **19805** Site Contact **TIM RATSEP**

Carrier Worksheet Number

Purchase Order/Quote Number: **ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-29100E-INFLOW	12/11/02	1648	WATER	1L	AMBER	2	None	EXPS321LX

Instructions: **Protocol K** **8321 Exp.**

**Hazard Identification:**  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

**QC Level:**  I  II  III **Project Specific Requirements (Specify):**

Received By: <i>[Signature]</i>	Date: 12/10/02	Time:	1. Received By: <i>[Signature]</i>	Date: 12/11/02	Time: 1100
Received By: <i>[Signature]</i>	Date: 12/12/02	Time: 1030	2. Received By:	Date:	Time:
Received By:	Date:	Time:	3. Received By:	Date:	Time:

Comments

37805

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

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CHAIN OF CUSTODY NUMBER



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Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002	Page <u>25</u> of <u>35</u>
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis
ngton	State DE	Zip Code 19805	Site Contact TIM RATSEP		
Number Name		Carrier Waybill Number			

Product Purchase Order Quote Number  
 ACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-711250-INFLOW	12/11/02	1340	WATER	1L	AMBER	2	None	

Instruments Protocol K S321 Exp.

e Hazard Identification <input type="checkbox"/> Volatile <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Round Time Request <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		
Quinched By <i>J. Beck</i>			Date 12/10/02		Time 1030
Quinched By <i>J. Beck</i>			Date 12/11/02		Time 1100
Quinched By _____			Date _____		Time _____

DUTION WHITE Stays with the Sample. CANARY Returns To Client with Product. PINK Field Copy

Chain of Custody  
Record

CHAIN OF CUSTODY NUMBER



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**SEVERN**  
**TRENT**  
**SERVICES**

97802

Severn Trent Laboratories, Inc.

(0700)

Dupont De Nemours  
Project Manager: Cary Pooler  
Date: 12/10/2002

Telephone Number (Area Code)/Fax Number: (000) / (000)  
Lab Location: STL Denver

Analysis

State: DE Zip Code: 19805  
Site Contact: TIM RATSEP  
Carrier Waybill Number:

Purchase Order Quote Number: ACT / PURCHASE ORDER #: 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	X	P	8	3	2	1	L	X	
				Volume	Type	No												
CG-29025E-INFLOW	12/11/02	1400	WATER	1L	AMBER	2	None											

Instructions Protocol K 8321 Exp.

Hazard Identification:  Non-Hazard,  Flammable,  Skin Irritant,  Poison B,  Unknown

Sample Disposal:  Return To Client,  Disposal By Lab,  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I,  II,  III

Project Specific Requirements (Specify)

Acquired By: *J. Beek* Date: 12/10/02 Time: 1100  
 Acquired By: *J. Beek* Date: 12/12/02 Time: 1030  
 Acquired By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments



Dugont De Nemours		Project Manager <b>Cary Pooler</b>		Date 12/10/2002		Page <u>26</u> of <u>35</u>	
City Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>					
Number Name		Carrier/Waybill Number					

Original Purchase Order Quote Number: **ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-711500-INFLOW	12/11/02	1330	WATER	1L	AMBER	2	None	X

Special Instructions: Protocol K 8321 Exp.

<p>Hazard Identification</p> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<p>Sample Disposal</p> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)
<p>Special Requirements</p> <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			<p>QC Level</p> <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			

Received By	Date	Time	Received By	Date	Time
	12/10/02			12/11/02	1100
Requested By	Date	Time	Requested By	Date	Time
	12/12/02	1030			
Requested By	Date	Time	Requested By	Date	Time

Chain of Custody Record

12/14/02



37907

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 1 3 - 0 2 7 \*

Severn Trent Laboratories, Inc.

Dupont De Nemours		Project Manager Cary Pooler		Date 12/10/2002		Page 27 of 35		
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis				
State DE		Zip Code 19805		Site Contact TIM RATSEP		E		
Carrier-Waybill Number		Contract / Purchase Order Quote Number 7035-507431-772000/LBIO-64568		QUOTE: 39097		X		
Sample ID Number and Description R-G-714830-INFLOW		Date 12/11/02	Time 1320	Containers Volume Type No. 1L AMBER 2			Preservative None	Condition on Receipt/Comments
								X

Instructions: Protocol K 3321 Exp.

Hazard Identification <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)			
Received By <i>J. A. Beck</i>	Date 12/14/02	Time	1. Received By <i>J. A. Beck</i>	Date 12/14/02	Time 1100
Received By	Date 12/12/02	Time 1030	2. Received By	Date	Time
Received By	Date	Time	3. Received By	Date	Time



Chain of Custody  
Record



7793

CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

Dupont De Nemours			Project Manager <b>Cary Pooler</b>			Date 12/10/2002			Page <u>3</u> of <u>35</u>					
Mill Plaza Building 27			Telephone Number (Area Code)/Fax Number (000) / (000)			Lab Location STL Denver			Analysis					
State DE Zip Code 19805			Site Contact <b>TIM RATSEP</b>			Corner Waybill Number								
Contract / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568									QUOTE: 39097					

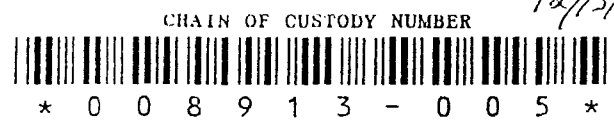
Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	X	P	8	3	2	1	L	X	
				Volume	Type	No												
EG-71450H-TNFLOW	12/11/02	1510	WATER	1L	AMBER	2	None											

Instructions: Protocol K 3321 Exp.

Hazard Identification				Sample Disposal				(A fee may be assessed if samples are retained longer than 3 months)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Around how long? <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____				QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.				Project Specific Requirements (Specify)					
Requested by: <i>D. B. Beck</i>				Date: <i>12/10/02</i>		Time:		1. Received By: <i>J. Beck</i>		Date: <i>12/11/02</i>		Time: <i>1100</i>	
Requested by: <i>J. Beck</i>				Date: <i>12/12/02</i>		Time: <i>1030</i>		2. Received By:		Date:		Time:	
Requested by:				Date:		Time:		3. Received By:		Date:		Time:	

Chain of Custody Record

37736



**SEVERN**  
**TRENT**  
**SERVICES**

Severn Trent Laboratories, Inc.

5.5" *12/13/02*

Dupont De Nemours		Project Manager <b>Cary Pooler</b>		Date 12/10/2002		Page <u>5</u> of <u>35</u>	
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>					
		Carrier Waybill Number					
Contract / Purchase Order # : 7035-507431-772000/LB10-64568				QUOTE: 39097			
Sample ID Number and Description	Date	Time	Sample Type	Containers Volume Type No.	Preservative	Condition on Receipt/Comments	
R-6-71270H-INFLOW	<i>12/11/02</i>	<i>1600</i>	WATER	1L AMBER 2	None	X	
-6-31340S - INFLOW	<i>12/12/02</i>	<i>0855</i>	WATER	1L AMBER 2	NONE	X	

Protocol K			8321 Exp.		
<input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
<input type="checkbox"/> Rush <input type="checkbox"/> Other			(A fee may be assessed if samples are retained longer than 3 months)		
QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)			
Date <i>12/10/02</i>	Time 	1. Received By <i>J. Beck</i>		Date <i>12/11/02</i>	Time <i>1100</i>
Date <i>12/12/02</i>	Time <i>1030</i>	2. Received By		Date	Time
Date		3. Received By		Date	Time

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



# Chain of Custody Record

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 1 3 - 0 0 2 \*



97782

Severn Trent Laboratories, Inc.

Client: Dupont De Nemours	Project Manager: Cary Pooler	Date: 12/10/2002	Page <u>2</u> of <u>35</u>
Address: Key Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location: STL Denver	Analysis
State: DE Zip Code: 19805	Site Contact: TIM RATSEP		
Contract Number Name	Carrier Waybill Number		

Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
WAR-G-71470H-INFLOW	12/11/02	1500	WATER	1L	AMBER	2	None	

Special Instructions: Protocol K 3321 Exp.

Hazard Identification:  Vol Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

Around Time Required: <input type="checkbox"/> Rush <input type="checkbox"/> Other	QC Level: <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
Requested By: [Signature]	Date: 12/10/02	Time: 11:00
Requested By: [Signature]	Date: 12/12/02	Time: 10:30
Requested By: [Signature]	Date: [ ]	Time: [ ]

Remarks:

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CHAIN OF CUSTODY NUMBER



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SEVERN  
TRENT  
SERVICES

97760

Severn Trent Laboratories, Inc.

Dupont De Nemours	Project Manager CARY POOLER	Date 12/06/2002	Page 5 of 15
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Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis
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State DE	Zip Code 19805	Site Contact TIM RATSEP	M E N S X O 8 P 3 2 8 N 6 3 0 0 2 2 : 1 L L X
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Number Name	Carrier Waybill Number	
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Contract/Purchase Order/Quote Number  
**PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-73280H-INFLOW	12/10/02	1545	WATER	1L	AMBER	2	None	
<del>R-G-73280H-INFLOW</del>			<del>WATER</del>	<del>10mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>	<del>Handwritten notes</del>
R-G-73280H-INFLOW	12/10/02	1545	WATER	250mL	AMBER	1	Conc H2SO4	

Instructions: **PROTOCOL K**

<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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<input type="checkbox"/> Around Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Acquired By <i>Paul Bois</i>	Date 12/6/02	Time	1. Received By <i>J. Beck</i>	Date 12/10/02	Time 1400
Acquired By <i>J. Beck</i>	Date 12/11/02	Time 0900	2. Received By <i>Project</i>	Date 12/12/02	Time 0948
Acquired By	Date	Time	3. Received By	Date	Time

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CHAIN OF CUSTODY NUMBER



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**SEVERN  
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SERVICES**

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Severn Trent Laboratories, Inc.

(0700)

DuPont De Nemours		Project Manager <b>CARY POOLER</b>	Date 12/06/2002	Page <u>6</u> of <u>15</u>
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	M S 8 2 6 0 0 1 L L X X
Number/Name		Carrier/Waybill Number	
Purchase Order/Quote Number		QUOTE: 39097	
ACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568			

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-73200H-INFLOW	12/10/02	1555	WATER	1L	AMBER	2	None	
<del>G-73200H-INFLOW</del>	<del>12/10/02</del>	<del>1555</del>	<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>	<del>12/10/02</del>
G-73200H-INFLOW	12/10/02	1555	WATER	250mL	AMBER	1	Conc H2SO4	

Instructions **PROTOCOL K**

Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 3 months)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client
Round Time Required		OC Level		Project Specific Requirements (Specify)	
<input type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.
Acquired By	Date	Time	1. Received By	Date	Time
<i>[Signature]</i>	12/6/02		<i>[Signature]</i>	12/10/02	1400
Acquired By	Date	Time	2. Received By	Date	Time
<i>[Signature]</i>	12/11/02	0900	<i>[Signature]</i>	12/12/02	0945
Acquired By	Date	Time	3. Received By	Date	Time

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CHAIN OF CUSTODY NUMBER



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**SEVERN  
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SERVICES**

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Severn Trent Laboratories, Inc.

(0700)

Dupont De Nemours		Project Manager CARY POOLER	Date 12/06/2002	Page <u>7</u> of <u>15</u>
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

State DE	Zip Code 19805	Site Contact TIM RATSEP	M E N S X O 8 P 3 2 8 N 6 3 O 0 2 2 : 1 L L X X
Number/Name		Carrier/Waybill Number	

Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-72860H-INFLOW	12/10/02	1605	WATER	1L	AMBER	2	None	
<del>G-72860H-INFLOW</del>	<del>12/10/02</del>	<del>1605</del>	<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1+1 HCL</del>	<del>NO Sample 12/10/02</del>
G-72860H-INFLOW	12/10/02	1605	WATER	250mL	AMBER	1	Conc H2SO4	

Instructions **PROTOCOL K**

Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)
<input type="checkbox"/> Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

<input type="checkbox"/> Rush <input type="checkbox"/> Other _____	OC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
--	---	---

Received By <i>Paul Beek</i>	Date <i>12/6/02</i>	Time	1. Received By <i>J. Beek</i>	Date <i>12/10/02</i>	Time <i>1400</i>
Received By <i>J. Beek</i>	Date <i>12/11/02</i>	Time <i>0900</i>	2. Received By <i>Quigley</i>	Date <i>12/12/02</i>	Time <i>0945</i>
Received By	Date	Time	3. Received By	Date	Time

Notes

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CHAIN OF CUSTODY NUMBER



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*3:7 on file*  
**SEVERN  
TRENT  
SERVICES**

37763

Severn Trent Laboratories, Inc.

(0700)

Dupont De Nemours		Project Manager <b>CARY POOLER</b>		Date 12/06/2002		Page <u>8</u> of <u>15</u>	
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	

ington	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>	M E N S X O S P 3 2 8 N 6 3 0 0 2 2 ; 1 L L X X
Number/Name	Carrier/Waybill Number			

Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-72730H-INFLOW	12/10/02	1615	WATER	1L	AMBER	2	None	
<del>G-72730H-INFLOW</del>			<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>2</del>	<del>1:1 HCL</del>	<del>X</del>
G-72730H-INFLOW	12/10/02	1615	WATER	250mL	AMBER	1	Conc H2SO4	X

*X/A Sample not for file*

Instructions **PROTOCOL K**

Hazard Identification <input type="checkbox"/> Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Acquired By <i>[Signature]</i>	Date 12/6/02	Time 	1. Received By <i>[Signature]</i>	Date 12/10/02	Time 1400
Acquired By <i>[Signature]</i>	Date 12/11/02	Time 0900	2. Received By <i>[Signature]</i>	Date 12/12/02	Time 0945
Acquired By	Date	Time	3. Received By	Date	Time

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Dupont De Nemours		Project Manager <b>CARY POOLER</b>		Date 12/06/2002	Page <u>1</u> of <u>15</u>
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis
ngton	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>		
Number/Name		Carrier/Waybill Number			

Contract/Purchase Order/Quote Number ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568						QUOTE: 39097					
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Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	E	N	S	X	O	8	P	3	2	8	N	6	3	0	0	2	2	;	1	L	L	
				Volume	Type	No.																									
-G-30300N- INFLOW	12/10/02	1510	WATER	1L	AMBER	2	None																								
<del>-G-30300N- INFLOW</del>			<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>		X																						
-G-30300N- INFLOW	12/10/02	1510	WATER	250mL	AMBER	1	Conc H2SO4																								

Instructions **PROTOCOL K**

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Ground Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
Acquired By 			Date 12/6/02			Time 0900		
Acquired By 			Date 12/11/02			Time 0900		
Acquired By 			Date 12/10/02			Time 0700		
Acquired By 			Date 12/26/02			Time 0945		

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**SEVERN  
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SERVICES**

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours		Project Manager ADQM AP Services	Date 12/04/2002	Page <u>34</u> of <u>38</u>
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v Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis
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ington	State DE	Zip Code 19805	Site Contact ADQM AP Services	E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 O L N O 7 3 6 4 ; O 1 0 2 0 ; L 2 0 ; 1 ; L ; L L L ; L
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Number/Name	Carrier/Waybill Number
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Purchase Order/Quote Number ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568	QUOTE: 39097
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Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-30500N - INFLOW-DUP	12/10/02	1510	WATER	1L	AMBER	2	None	X
<del>-G-30500N - INFLOW-DUP</del>			<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>	<del>X</del>
-G-30500N - INFLOW-DUP	12/10/02	1510	WATER	250mL	AMBER	1	Conc H2SO4	X

X10 SAMPLE 12/10/02 JAW

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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Round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Acquired By <i>W. S. ...</i>	Date 12/15/02	Time	1. Received By <i>J. Beck</i>	Date 12/10/02	Time 0700
Acquired By <i>J. Beck</i>	Date 12/11/02	Time 0900	2. Received By <i>J. Beck</i>	Date 12/12/02	Time 0945
Acquired By	Date	Time	3. Received By	Date	Time

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**SEVERN  
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SERVICES**

Severn Trent Laboratories, Inc.

Chain of Custody  
Record

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours		Project Manager CARY POOLER		Date 12/06/2003	Page <u>2</u> of <u>15</u>
City Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis
State DE	Zip Code 19805	Site Contact TIM RATSEP			
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LB10-64568		Carrier/Waybill Number		QUOTE: 39097	

M	E	N																					
S	X	O																					
8	P	3																					
2	8	N																					
6	3	O																					
0	2	2																					
:	1																						
L	L																						
X																							
X																							

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-30380N-INFLOW	12/10/02	1500	WATER	1L	AMBER	2	None	
<del>R-G-30380N-INFLOW</del>			<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCl</del>	X
R-G-30380N-INFLOW	12/10/02	1500	WATER	250mL	AMBER	1	Conc H2SO4	X

*Not Sampled TL*

Instructions **PROTOCOL K**

Sample Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)
Turnaround Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.
Inquired By <i>J. Berth</i>	Project Specific Requirements (Specify)
Inquired By <i>J. Berth</i>	1. Received By <i>J. Berth</i>
Inquired By <i>J. Berth</i>	2. Received By <i>Quigg</i>
Inquired By <i>J. Berth</i>	3. Received By 
Date 12/6/02	Date 12/10/02
Time 0900	Time 0900
Date 12/11/02	Date 12/12/02
Time 0900	Time 0945



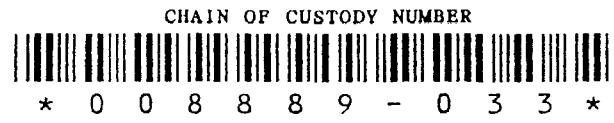
Chain of Custody Record

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**SEVERN  
TRENT  
SERVICES**

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Severn Trent Laboratories, Inc.



Dupont De Nemours		Project Manager ADQM AP Services	Date 12/04/2002	Page <u>33</u> of <u>38</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis
State DE	Zip Code 19805	Site Contact ADQM AP Services		
Carrier/Waybill Number				

Contract/Purchase Order/Quote Number  
 PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
R-G-30380N- INFLOW-MS	12/10/02	1500	WATER	1L	AMBER	2	None	X
R-G-30380N- INFLOW-MS			WATER	40mL	VIAL	3	1:1 HCL	X
R-G-30380N- INFLOW-MS			WATER	250mL	AMBER	1	Conc H2SO4	
R-G-30380N- INFLOW-MSD			WATER	1L	AMBER	2	None	X
R-G-30380N- INFLOW-MSD			WATER	40mL	VIAL	3	1:1 HCL	X
R-G-30380N- INFLOW-MSD	12/10/02	1500	WATER	250mL	AMBER	1	Conc H2SO4	

E	M	I	I	T	N	M	M												
X	S	C	C	D	O	T	7												
P	8	S	C	S	3	6	4												
8	2	O	L	N	0	7													
3	6	4	;	O	1	0													
2	0	;	L	2	0	;													
1	;	L																	
L	L																		

Special Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Turnaround Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Acquired By <i>Will Sutton</i>		Date <i>12/15/02</i>		1. Received By <i>J. Beck</i>	
Acquired By <i>J. Beck</i>		Date <i>12/11/02</i>		2. Received By <i>Janey</i>	
Acquired By _____		Date _____		3. Received By _____	

Chain of Custody Record

CHAIN OF CUSTODY NUMBER



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**SEVERN  
TRENT  
SERVICES**

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Severn Trent Laboratories, Inc.

Project Manager ADQM AP Services		Date 12/04/2002	Page <u>20</u> of <u>38</u>
Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver	Analysis
State DE	Zip Code 19805	Site Contact ADQM AP Services	
Carrier/Waybill Number			

Contract/Purchase Order/Quote Number  
**CONTRACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568** QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M								
				Volume	Type	No.																		
R-G-72370H-INFLOW	12/10/02	1715	WATER	1L	AMBER	2	None		X															
R-G-72370H-INFLOW	12/10/02	1715	WATER	40mL	VIAL	3	1:1 HCL			X														
R-G-72370H-INFLOW	12/10/02	1715	WATER	250mL	AMBER	1	Conc H2SO4								X									
R-G-72370H-EFFLUENT	12/10/02	1710	WATER	1L	AMBER	2	None		X															

Special Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Turnaround Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Acquired By: <i>Will Swanson</i>		Date: 12/15/02 Time:		1. Received By: <i>J. Beck</i> Date: 12/10/02 Time: 0700	
Acquired By: <i>J. Beck</i>		Date: 12/11/02 Time: 0900		2. Received By: <i>J. Beck</i> Date: 12/17/02 Time: 0945	
Acquired By:		Date:		3. Received By:	

in of Custody  
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CHAIN OF CUSTODY NUMBER



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**SEVERN  
TRENT  
SERVICES**

97758

Severn Trent Laboratories, Inc.

(0700)

Dupont De Nemours		Project Manager <b>CARY POOLER</b>		Date 12/06/2002		Page <u>3</u> of <u>15</u>	
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
ngton	State DE	Zip Code 19805	Site Contact <b>TIM RATSEP</b>		M E N		
Number/Name		Carrier/Waybill Number		S X O			
Purchase Order/Quote Number		ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568		QUOTE: 39097			

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	E	N	S	X	O	8	P	3	2	8	N	6	3	0	0	2	2	1	1	L	L				
				Volume	Type	No.																												
-G-30490N-INFLOW	12/10/02	1800	WATER	1L	AMBER	2	None																											
<del>-G-30490N-INFLOW</del>	<del>12/10/02</del>	<del>1800</del>	<del>WATER</del>	<del>40mL</del>	<del>VIAL</del>	<del>3</del>	<del>1:1 HCL</del>		X																									
-G-30490N-INFLOW	12/10/02	1800	WATER	250mL	AMBER	1	Conc H2SO4																											

NOT SAMPLED (P)

Instructions **PROTOCOL K**

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)								
Round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)								
Acquired By <i>[Signature]</i>			Date 12/6/02			1. Received By <i>[Signature]</i>			Date 12/10/02			Time 0900		
Acquired By <i>[Signature]</i>			Date 12/11/02			2. Received By <i>[Signature]</i>			Date 12/12/02			Time 0945		
Acquired By _____			Date _____			3. Received By _____			Date _____			Time _____		

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**SEVERN  
TRENT  
SERVICES**

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Dupont De Nemours		Project Manager ADQM AP Services		Date 12/04/2002		Page <u>35</u> of <u>38</u>	
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	

ngton	State DE	Zip Code 19805	Site Contact ADQM AP Services	E M I I T N M M X S C C D O T 7 P 8 S C S 3 6 4 8 2 O L N 0 7 3 6 4 : : O 1 0 2 0 : L 2 0 : 1 : L : : L L L L
NumberName			Carrier/Waybill Number	

ct/Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID, Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-72330 <sup>H</sup> -INFLOW-DUP	12/10/02	1330	WATER	1L	AMBER	2	None	
-G-72330 <sup>H</sup> -INFLOW-DUP	12/10/02	1330	WATER	40mL	VIAL	3	1:1 HCL	X
-G-72330 <sup>H</sup> -INFLOW-DUP	12/10/02	1330	WATER	250mL	AMBER	1	Conc H2SO4	X

al Instructions Quote 39097-K Resident Wells 12/02 (BAR)

le Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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round Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Received By <i>Will Sauter</i>	Date 12/15/02	Time	1. Received By <i>J. Beck</i>	Date 12/10/02	Time 0700
Received By <i>J. Beck</i>	Date 12/11/02	Time 0900	2. Received By <i>J. Beck</i>	Date 12/12/02	Time 0545
Received By	Date	Time	3. Received By	Date	Time

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SERVICES**

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Dupont De Nemours  
Project Manager: ADQM AP Services  
Date: 12/04/2002  
Page 27 of 38  
Telephone Number (Area Code)/Fax Number (000) / (000)  
Lab Location: STL Denver

State: DE Zip Code: 19805  
Site Contact: ADQM AP Services  
Carrier/Waybill Number  
Analysis: E M I I T N M M  
X S C C D O T 7  
P 8 S C S 3 6 4  
8 2 O L N 0 7  
3 6 4 ; O 1 0  
2 0 ; L 2 0 ;  
1 ; L ; L  
L L ; L  
X

Purchase Order/Quote Number: ACT / PURCHASE ORDER #: 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-73095BG-INFLOW	12/10/02	1730	WATER	1L	AMBER	2	None	
-G-73095BG-INFLOW	12/10/02	1730	WATER	250mL	AMBER	1	Conc H2SO4	X

Instructions: Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

QC Level:  I.  II.  III. Project Specific Requirements (Specify)

Received By: [Signature]	Date: 12/15/02	Time: 0900	Received By: [Signature]	Date: 12/10/02	Time: 0900
Received By: [Signature]	Date: 12/11/02	Time: 0900	Received By: [Signature]	Date: 12/12/02	Time: 0945

**SEVERN**  
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Severn Trent Laboratories, Inc.

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CHAIN OF CUSTODY NUMBER



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Dupont De Nemours		Project Manager <b>ADQM AP Services</b>	Date <b>12/04/2002</b>	Page <u>5</u> of <u>38</u>
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y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location <b>STL Denver</b>	Analysis
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ngton	State <b>DE</b>	Zip Code <b>19805</b>	Site Contact <b>ADQM AP Services</b>	<table border="1"> <tr><td>E</td><td>M</td><td>I</td><td>I</td><td>T</td><td>N</td><td>M</td><td>M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>X</td><td>S</td><td>C</td><td>C</td><td>D</td><td>O</td><td>T</td><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>P</td><td>8</td><td>S</td><td>C</td><td>S</td><td>3</td><td>6</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>2</td><td>O</td><td>L</td><td>N</td><td>0</td><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>6</td><td>4</td><td>:</td><td>O</td><td>1</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>0</td><td>:</td><td>L</td><td>2</td><td>0</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>:</td><td>L</td><td></td><td>:</td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L</td><td>L</td><td></td><td></td><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	E	M	I	I	T	N	M	M														X	S	C	C	D	O	T	7														P	8	S	C	S	3	6	4														8	2	O	L	N	0	7															3	6	4	:	O	1	0															2	0	:	L	2	0	:															1	:	L		:	L																L	L				L																X																				
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Number/Name			Carrier/Waybill Number																																																																																																																																																																																														

ACT / PURCHASE ORDER # : <b>7035-507431-772000/LBIO-64568</b>	QUOTE: <b>39097</b>
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Sample I D Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
-G-73500H-INFLOW	12/10/02	1220	WATER	1L	AMBER	2	None	
-G-73500H-INFLOW	12/10/02	1220	WATER	250mL	AMBER	1	Conc H2SO4	

Quote 39097-K Resident Wells 12/02 (BAR)

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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<input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Acquired By: <i>Will Swanson</i> Date: 12/15/02 Time: 1502	1. Received By: <i>J. Beck</i> Date: 12/10/02 Time: 0900
Acquired By: <i>J. Beck</i> Date: 12/11/02 Time: 0900	2. Received By: <i>J. Beck</i> Date: 12/12/02 Time: 0945
Acquired By: _____ Date: _____ Time: _____	3. Received By: _____ Date: _____ Time: _____

Chain of Custody  
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SERVICES**

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Dumont De Nemours		Project Manager ADQM AP Services	Date 12/04/2002	Page <u>26</u> of <u>38</u>
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis

City Englewood	State DE	Zip Code 19805	Site Contact ADQM AP Services	EMITNM XSCCDOT P8SCS364 820LN07 364;O10 20;L20; I;L;L L L ; L
Carrier/Waybill Number			Carrier/Waybill Number	
Purchase Order/Quote Number			QUOTE: 39097	
Purchase Order / PURCHASE ORDER # : 7035-507431-772000/LB10-64568				

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
G-73110BG-INFLOW	12/10/02	1900	WATER	1L	AMBER	2	None	X
G-73110BG-INFLOW	12/10/02	1900	WATER	250mL	AMBER	1	Conc H2SO4	X
G-73110BG-EFFLUENT	12/10/02	1855	WATER	1L	AMBER	2	None	X

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)
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Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)
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Received By: <i>William S... [Signature]</i> Date: 12/15/02    Time: _____	1. Received By: <i>J. Beck [Signature]</i> Date: 12/10/02    Time: 0700
Received By: <i>J. Beck [Signature]</i> Date: 12/11/02    Time: 0900	2. Received By: <i>[Signature]</i> Date: 12/10/02    Time: 0945
Received By: _____ Date: _____    Time: _____	3. Received By: _____ Date: _____    Time: _____

Comments

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CHAIN OF CUSTODY NUMBER



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Severn Trent Laboratories, Inc.

Dupont De Nemours  
 Project Manager: ADQM AP Services  
 Date: 12/04/2002  
 Telephone Number (Area Code)/Fax Number (000) / (000)  
 Lab Location: STL Denver  
 Page 18 of 38

State DE Zip Code 19805  
 Site Contact: ADQM AP Services  
 Carrier/Waybill Number  
 Analysis

Purchase Order/Quote Number  
 ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568  
 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M	
				Volume	Type	No.											
G-72470H-INFLOW	12/10/02	1300	WATER	1L	AMBER	2	None										
G-72470H-INFLOW	12/10/02	1300	WATER	250mL	AMBER	1	Conc H2SO4										
G-72470H-EFFLUENT	12/10/02	1255	WATER	1L	AMBER	2	None										
G-313455-INFLOW	12/10/02	1200															

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
 Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 (A fee may be assessed if samples are retained longer than 3 months)

Round Time Required:  Rush  Other \_\_\_\_\_  
 QC Level:  I.  II.  III.  
 Project Specific Requirements (Specify)

Received By: <i>Will Sutton</i>	Date: 12/15/02	Time:	1. Received By: <i>J. Beck</i>	Date: 12/10/02	Time: 0700
Received By: <i>J. Beck</i>	Date: 12/11/02	Time: 0900	2. Received By: <i>J. Beck</i>	Date: 12/12/02	Time: 0945
Received By:	Date:	Time:	3. Received By:	Date:	Time:



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SERVICES**

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Severn Trent Laboratories, Inc.

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Dupont De Nemours		Project Manager ADQM AP Services		Date 12/04/2002		Page <u>17</u> of <u>38</u>	
Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
ngton	State DE	Zip Code 19805	Site Contact ADQM AP Services		E	M	I
Number/Name			Carrier/Waybill Number		X	S	C

Purchase Order/Quote Number  
ACT / PURCHASE ORDER # : 7035-507431-772000/LBIO-64568 QUOTE: 39097

Sample ID Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	E	M	I	I	T	N	M	M		
				Volume	Type	No.												
-G-72450H-INFLOW	12/10/02	1630	WATER	1L	AMBER	2	None											
-G-72450H-INFLOW	12/10/02	1630	WATER	250mL	AMBER	1	Conc H2SO4											
-G-72450H-EFFLUENT	12/10/02	1625	WATER	1L	AMBER	2	None											

Instructions Quote 39097-K Resident Wells 12/02 (BAR)

Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)		
Lead Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)		
Acquired By <i>Will Sweeney</i>			Date 12/15/02			1. Received By <i>J. Beek</i>		
Acquired By <i>J. Beek</i>			Date 12/11/02			2. Received By <i>J. Beek</i>		
Acquired By			Date			3. Received By		

ents

# **BARKSDALE WORKS - RESIDENT WELLS 1/03**

**Barksdale, WI**

**January 29, 2003**

*Prepared for*

Brad Nave, DuPont CRG

Cary Pooler, URS Diamond

*Prepared by*

URS Diamond  
Laboratory Services – Sharon A. Nordstrom  
Barley Mill Plaza, Building 27  
Wilmington, DE 19805

# Corporate Remediation Group

## Corporate Environmental Database Check List

**Location:** Barksdale Works  
Barksdale, WI

**Jobname:** Resident Wells 1/03

SAN	<p><b>Preliminary Administration</b></p> <p>Review Project Sheet</p> <p>Verify location/jobname in sample table</p>
SAN	<p><b>Project Backstop</b></p> <p>Disk Deliverable Integrity</p> <p>QC Batch Integrity</p> <p>(Correct problems/Pull backstop as necessary)</p>
SAN	<p><b>Completeness Check</b></p> <p>Samples    ___X___ 100%</p> <p>Tests       ___X___ 100%</p> <p>Parameters   ___  ___ 100%</p> <p>              or ___X___ &lt;100%</p>
N/A	<p><b>Accuracy Check</b></p> <p>CED Results vs. Hard Copy Lab Reports</p>
SAN	<p><b>Comments/Narrative Review</b></p>
SAN	<p><b>Laboratory Services Coordinator Overview</b></p> <p>Review Report</p> <p>Cover letter/title page for customer</p>
CG	<p><b>Report Finish</b></p> <p>Copy and Bind</p>
CG	<p><b>Mail to Client(s)</b></p>

Sharon A. Nordstrom  
Certified by

January 29, 2003  
Date

# Reporting Process

The following process is followed on all projects where data is delivered to the Corporate Environmental Database (CED) and a report is generated from the CED. All projects which bypass the CED (are directly reported by a laboratory) do not receive the rigorous treatment presented below.

## **Preliminary Administration**

To begin a report, the reporting coordinator checks the file and updates the reporting schedule. A review of the project sheet is the next step to familiarize the coordinator with specifications and special instructions. Finally, the location and jobname are either added, corrected, or verified to ensure all samples are properly identified as in the project.

## **Project Backstop**

First, the backstop is used to check the disk deliverable integrity of all project data. This tool checks the CED readiness of the data. Second, quality control batch integrity is checked by the backstop. It is verified that all samples for each test have appropriate quality control samples attached.

## **Completeness Check**

Data completeness is checked against project specifications. First, all sample points are identified as 100% complete. Then, all tests for each sample point are checked for 100% completeness. A parameter (or analyte) count is verified for each sample and test. A 100% parameter check and/or reporting threshold check can be done if requested in project specifications.

## **Accuracy Check**

The results reported by disk and located in the CED are checked against the hard copy laboratory reports for accuracy. This stage is a 100% check of the accuracy of the data.

## **Comments/Narrative Review**

Three steps are included in the comments/narrative review. First, any comments made by the laboratory are located in the hard copy reports. Second, the quality control section(s) of the laboratory reports are reviewed for obvious quality control deficiencies (matrix spike or replicate outside control limits without appropriate comment). If questionable, the laboratory is contacted for verification. Finally, the appropriate comments are entered into the CED.

## **Overview**

The completed report is reviewed by a person familiar with the project (usually the customer service representative) and a cover letter is produced by the reviewer.

## **Report Finish/Mailing**

The final step is to copy, bind, and mail the report to the client(s) in the format specified in the project specifications.

Corporate Environmental Database  
Lab Analysis Report  
Summary of Positive Results

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 1/03

January 29, 2003  
Page 1

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Method No.</u>
Sampling Point: 29600N-INFLOW C of C Sampleid: BAR-G-29600N-INFLOW Date Sampled: Jan 10, 2003 Sample Type: GROUND WATER QC Level: QC (ADQM QC Process)					
TOLUENE	0.69 J	UG/L	0.26	1.0	8260B

Qualifiers:  
J The result is between MDL and PQL and should be considered an estimate.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 1/03  
C of C Sampleid: BAR-G-29600N-INFLOW  
Sampling Point: 29600N-INFLOW  
Date Sampled: JANUARY 10, 2003  
Lab Sample ID: FF3ED-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

January 29, 2003  
Page 1

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
Prep/Method: 5030B/8260B						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Jan 15, 2003
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Jan 15, 2003
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Jan 15, 2003
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Jan 15, 2003
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Jan 15, 2003
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Jan 15, 2003
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Jan 15, 2003
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Jan 15, 2003
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Jan 15, 2003
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Jan 15, 2003
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Jan 15, 2003
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Jan 15, 2003
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Jan 15, 2003
ACETONE	1	ND	UG/L	2.9	10	Jan 15, 2003
BENZENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
BROMOFORM	1	ND	UG/L	0.46	1.0	Jan 15, 2003
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Jan 15, 2003
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Jan 15, 2003
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
CHLOROFORM	1	ND	UG/L	0.29	1.0	Jan 15, 2003
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Jan 15, 2003
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Jan 15, 2003
HEXANE	1	ND	UG/L	0.80	1.0	Jan 15, 2003
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Jan 15, 2003
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Jan 15, 2003
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Jan 15, 2003
STYRENE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
TOLUENE	1	0.69 J	UG/L	0.26	1.0	Jan 15, 2003
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Jan 15, 2003
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Jan 15, 2003
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Jan 15, 2003

Surrogates:

1,2-DICHLOROETHANE-D4	1	83.0 RPR				Jan 15, 2003
4-BROMOFLUOROBENZENE	1	94.0 RPR				Jan 15, 2003
DIBROMOFLUOROMETHANE	1	91.0 RPR				Jan 15, 2003
TOLUENE-DB	1	102.0 RPR				Jan 15, 2003

Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 1/03  
C of C Sampleid: BAR-K-TBLK  
Sampling Point: TBLK  
Date Sampled: JANUARY 10, 2003  
Lab Sample ID: FF3D9-1 Analysis Lab: QES-DEN  
Sample Type: BLANK WATER  
QC Level: QC (ADQM QC Process)

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Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
Prep/Method: 5030B/8260B						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Jan 15, 2003
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Jan 15, 2003
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Jan 15, 2003
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Jan 15, 2003
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Jan 15, 2003
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Jan 15, 2003
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Jan 15, 2003
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Jan 15, 2003
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Jan 15, 2003
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Jan 15, 2003
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Jan 15, 2003
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Jan 15, 2003
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Jan 15, 2003
ACETONE	1	ND	UG/L	2.9	10	Jan 15, 2003
BENZENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
BROMOFORM	1	ND	UG/L	0.46	1.0	Jan 15, 2003
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Jan 15, 2003
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Jan 15, 2003
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
CHLOROFORM	1	ND	UG/L	0.29	1.0	Jan 15, 2003
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Jan 15, 2003
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Jan 15, 2003
HEXANE	1	ND	UG/L	0.80	1.0	Jan 15, 2003
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Jan 15, 2003
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Jan 15, 2003
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Jan 15, 2003
STYRENE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
TOLUENE	1	ND	UG/L	0.26	1.0	Jan 15, 2003
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Jan 15, 2003
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Jan 15, 2003
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Jan 15, 2003

Surrogates:

1,2-DICHLOROETHANE-D4	1	85.0 RPR				Jan 15, 2003
4-BROMOFLUOROBENZENE	1	90.0 RPR				Jan 15, 2003
DIBROMOFLUOROMETHANE	1	90.0 RPR				Jan 15, 2003
TOLUENE-D8	1	102.0 RPR				Jan 15, 2003

Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 1/03

January 29, 2003  
Page 1

Batch Identifier

Method Number: 8260B      Prep Method: 5030B      Pre-prep:  
Batch Start Date: 16JAN03  
Instrument: G  
Batch Number: 06

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	10JAN03	FF3ED-1	QES-DEN QC
BAR-K-TBLK	10JAN03	FF3D9-1	QES-DEN QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,1-DICHLOROETHENE				107		FF6JQ-1    QES-DEN
BENZENE				113		FF6JQ-1    QES-DEN
CHLOROBENZENE				114		FF6JQ-1    QES-DEN
TOLUENE				112		FF6JQ-1    QES-DEN
TRICHLOROETHENE				115		FF6JQ-1    QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				90		FF6JQ-1    QES-DEN
4-BROMOFLUOROBENZENE				92		FF6JQ-1    QES-DEN
DIBROMOFLUOROMETHANE				92		FF6JQ-1    QES-DEN
TOLUENE-D8				99		FF6JQ-1    QES-DEN

Lab Control Spike Duplicate:

1,1-DICHLOROETHENE				104	2.4	FF6JQ-1    QES-DEN
BENZENE				114	.13	FF6JQ-1    QES-DEN
CHLOROBENZENE				114	.64	FF6JQ-1    QES-DEN
TOLUENE				114	1.9	FF6JQ-1    QES-DEN
TRICHLOROETHENE				111	2.9	FF6JQ-1    QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				90	.01	FF6JQ-1    QES-DEN
4-BROMOFLUOROBENZENE				93	.58	FF6JQ-1    QES-DEN
DIBROMOFLUOROMETHANE				93	1.6	FF6JQ-1    QES-DEN
TOLUENE-D8				98	.55	FF6JQ-1    QES-DEN

Method Blank:

1,1,1,2-TETRACHLOROETHANE	ND	UG/L	0.28			FF6JQ-1    QES-DEN
1,1,1-TRICHLOROETHANE	ND	UG/L	0.32			FF6JQ-1    QES-DEN
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	0.50			FF6JQ-1    QES-DEN
1,1,2-TRICHLOROETHANE	ND	UG/L	0.41			FF6JQ-1    QES-DEN
1,1-DICHLOROETHANE	ND	UG/L	0.29			FF6JQ-1    QES-DEN
1,1-DICHLOROETHENE	ND	UG/L	0.31			FF6JQ-1    QES-DEN
1,2,3-TRICHLOROPROPANE	ND	UG/L	0.76			FF6JQ-1    QES-DEN
1,2,4-TRICHLOROBENZENE	ND	UG/L	0.63			FF6JQ-1    QES-DEN
1,2,4-TRIMETHYLBENZENE	ND	UG/L	0.30			FF6JQ-1    QES-DEN
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	UG/L	0.49			FF6JQ-1    QES-DEN
1,2-DIBROMOETHANE (EDB)	ND	UG/L	0.46			FF6JQ-1    QES-DEN
1,2-DICHLOROBENZENE	ND	UG/L	0.30			FF6JQ-1    QES-DEN
1,2-DICHLOROETHANE	ND	UG/L	0.43			FF6JQ-1    QES-DEN
1,2-DICHLOROETHENE (TOTAL)	ND	UG/L	0.54			FF6JQ-1    QES-DEN
1,2-DICHLOROPROPANE	ND	UG/L	0.38			FF6JQ-1    QES-DEN
1,3,5-TRIMETHYLBENZENE	ND	UG/L	0.31			FF6JQ-1    QES-DEN
1,3-DICHLOROBENZENE	ND	UG/L	0.30			FF6JQ-1    QES-DEN
1,3-DICHLOROPROPANE	ND	UG/L	0.37			FF6JQ-1    QES-DEN
1,4-DICHLOROBENZENE	ND	UG/L	0.31			FF6JQ-1    QES-DEN
2-BUTANONE (MEK)	ND	UG/L	2.4			FF6JQ-1    QES-DEN
4-METHYL-2-PENTANONE	ND	UG/L	1.8			FF6JQ-1    QES-DEN
ACETONE	ND	UG/L	2.9			FF6JQ-1    QES-DEN
BENZENE	ND	UG/L	0.27			FF6JQ-1    QES-DEN
BROMODICHLOROMETHANE	ND	UG/L	0.35			FF6JQ-1    QES-DEN
BROMOFORM	ND	UG/L	0.46			FF6JQ-1    QES-DEN
BROMOMETHANE	ND	UG/L	0.28			FF6JQ-1    QES-DEN
CARBON DISULFIDE	ND	UG/L	0.67			FF6JQ-1    QES-DEN
CARBON TETRACHLORIDE	ND	UG/L	0.35			FF6JQ-1    QES-DEN
CHLOROBENZENE	ND	UG/L	0.24			FF6JQ-1    QES-DEN



Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 1/03

January 29, 2003  
Page 2

(Batch continued from previous page)

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Method Blank:						
CHLOROETHANE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
CHLOROFORM	ND	UG/L	0.29			FF6JQ-1 QES-DEN
CHLOROMETHANE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
DIBROMOCHLOROMETHANE	ND	UG/L	0.37			FF6JQ-1 QES-DEN
DICHLORODIFLUOROMETHANE	ND	UG/L	0.44			FF6JQ-1 QES-DEN
ETHYLBENZENE	ND	UG/L	0.51			FF6JQ-1 QES-DEN
HEXANE	ND	UG/L	0.80			FF6JQ-1 QES-DEN
METHYL TERT-BUTYL ETHER	ND	UG/L	0.88			FF6JQ-1 QES-DEN
METHYLENE CHLORIDE	ND	UG/L	0.86			FF6JQ-1 QES-DEN
NAPHTHALENE	ND	UG/L	0.78			FF6JQ-1 QES-DEN
STYRENE	ND	UG/L	0.28			FF6JQ-1 QES-DEN
TETRACHLOROETHENE	ND	UG/L	0.27			FF6JQ-1 QES-DEN
TOLUENE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
TRICHLOROETHENE	ND	UG/L	0.24			FF6JQ-1 QES-DEN
TRICHLOROFUOROMETHANE	ND	UG/L	0.43			FF6JQ-1 QES-DEN
VINYL CHLORIDE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
XYLENES (TOTAL)	ND	UG/L	0.73			FF6JQ-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4	92					FF6JQ-1 QES-DEN
4-BROMOFLUOROBENZENE	93					FF6JQ-1 QES-DEN
DIBROMOFLUOROMETHANE	93					FF6JQ-1 QES-DEN
TOLUENE-D8	98					FF6JQ-1 QES-DEN

Matrix Spike:

1,1-DICHLOROETHENE	125					FF3ED-1 QES-DEN
BENZENE	121					FF3ED-1 QES-DEN
CHLOROBENZENE	119					FF3ED-1 QES-DEN
TOLUENE	125					FF3ED-1 QES-DEN
TRICHLOROETHENE	126					FF3ED-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4	82					FF3ED-1 QES-DEN
4-BROMOFLUOROBENZENE	94					FF3ED-1 QES-DEN
DIBROMOFLUOROMETHANE	91					FF3ED-1 QES-DEN
TOLUENE-D8	100					FF3ED-1 QES-DEN

Matrix Spike Duplicate:

1,1-DICHLOROETHENE	112	11				FF3ED-1 QES-DEN
BENZENE	113	7.1				FF3ED-1 QES-DEN
CHLOROBENZENE	117	2.1				FF3ED-1 QES-DEN
TOLUENE	112	11				FF3ED-1 QES-DEN
TRICHLOROETHENE	116	8.2				FF3ED-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4	82	.31				FF3ED-1 QES-DEN
4-BROMOFLUOROBENZENE	93	.75				FF3ED-1 QES-DEN
DIBROMOFLUOROMETHANE	92	1.6				FF3ED-1 QES-DEN
TOLUENE-D8	100	.44				FF3ED-1 QES-DEN

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0.8<sup>2</sup>  
KB  
1/14/03



102872

Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Project Manager <b>ADQM AP Services</b>		Date <b>01/02/2003</b>	Page <u>4</u> of <u>4</u>
Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>		Lab Location <b>STL Denver</b>	
State <b>DE</b>		Zip Code <b>19805</b>	Analysis
Site Contact <b>ADQM AP Services</b>		Carrier/Waybill Number	
Purchase Order/Quote Number <b>CT / PURCHASE ORDER # : 7035-507355-772000/LB10-64568</b>		<b>QUOTE: 39097</b>	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<b>K-TBLK</b>			<b>WATER</b>	<b>40mL</b>	<b>VIAL</b>	<b>3</b>	<b>1:1 HCL</b>	
<p><i>Filled by Lab</i> <i>No DATE &amp; TIME provided.</i> <i>CSP 1/10/2003</i></p>								

Instructions **Protocol K**

Hazard Identification <input type="checkbox"/> Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		(A fee may be assessed if samples are retained longer than 3 months)	
Round Time Required <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.		Project Specific Requirements (Specify)	
Received By <i>[Signature]</i>	Date <b>1/6/03</b>	Time <b>1450</b>	1. Received By <i>[Signature]</i> -UKSD		Date <b>1/10/2003</b> Time <b>0800</b>
Received By <i>[Signature]</i> UKSD	Date <b>1/11/2003</b>	Time	2. Received By <i>[Signature]</i>		Date <b>1/11/2003</b> Time
Received By <i>[Signature]</i> Ex	Date	Time	3. Received By <i>[Signature]</i>		Date <b>1/13/03</b> Time <b>0830</b>

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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(0700)

Dupont De Nemours	Project Manager ADQM AP Services	Date 01/02/2003	Page <u>1</u> of <u>4</u>
Mill Plaza Building 27	Telephone Number (Area Code)/Fax Number (000) / (000)	Lab Location STL Denver	Analysis
State DE	Zip Code 19805	Site Contact ADQM AP Services	
Number/Name	Carrier/Waybill Number		
Purchase Order/Quote Number			
ACT / PURCHASE ORDER # : 7035-507355-772000/LBIO-64568			QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments												
				Volume	Type	No.														
-G-29600N-INFLOW	1/10/2003	1101	WATER	40mL	VIAL	3	1:1 HCL			X										
-G-29600N-INFLOW-MS	↓	1101	WATER	40mL	VIAL	3	1:1 HCL			X										
-G-29600N-INFLOW-MSD	↓	1101	WATER	40mL	VIAL	3	1:1 HCL			X										

Protocol K

Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)	
QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Project Specific Requirements (Specify)	
Received By 1. Received By <i>Greg Parker</i> UKSD	Date 1/10/2003	Time 0830
Received By 2. Received By <i>Red</i> Ojo	Date	Time
Received By 3. Received By <i>Julia</i>	Date 1/14/03	Time 0830

# **BARKSDALE WORKS - RESIDENT WELLS 1/03**

**Barksdale, WI**

**January 29, 2003**

*Prepared for*

Brad Nave, DuPont CRG

Cary Pooler, URS Diamond

*Prepared by*

URS Diamond  
Laboratory Services – Sharon A. Nordstrom  
Barley Mill Plaza, Building 27  
Wilmington, DE 19805

# Corporate Remediation Group

## Corporate Environmental Database Check List

**Location:** Barksdale Works  
Barksdale, WI

**Jobname:** Resident Wells 1/03

SAN	<p><b>Preliminary Administration</b></p> <p>Review Project Sheet</p> <p>Verify location/jobname in sample table</p>
SAN	<p><b>Project Backstop</b></p> <p>Disk Deliverable Integrity</p> <p>QC Batch Integrity</p> <p>(Correct problems/Pull backstop as necessary)</p>
SAN	<p><b>Completeness Check</b></p> <p>Samples    ___X___ 100%</p> <p>Tests       ___X___ 100%</p> <p>Parameters   _____ 100%</p> <p>              or   ___X___ &lt;100%</p>
N/A	<p><b>Accuracy Check</b></p> <p>CED Results vs. Hard Copy Lab Reports</p>
SAN	<p><b>Comments/Narrative Review</b></p>
SAN	<p><b>Laboratory Services Coordinator Overview</b></p> <p>Review Report</p> <p>Cover letter/title page for customer</p>
CG	<p><b>Report Finish</b></p> <p>Copy and Bind</p>
CG	<p><b>Mail to Client(s)</b></p>

Sharon A. Nordstrom  
Certified by

January 29, 2003  
Date

# Reporting Process

The following process is followed on all projects where data is delivered to the Corporate Environmental Database (CED) and a report is generated from the CED. All projects which bypass the CED (are directly reported by a laboratory) do not receive the rigorous treatment presented below.

## **Preliminary Administration**

To begin a report, the reporting coordinator checks the file and updates the reporting schedule. A review of the project sheet is the next step to familiarize the coordinator with specifications and special instructions. Finally, the location and jobname are either added, corrected, or verified to ensure all samples are properly identified as in the project.

## **Project Backstop**

First, the backstop is used to check the disk deliverable integrity of all project data. This tool checks the CED readiness of the data. Second, quality control batch integrity is checked by the backstop. It is verified that all samples for each test have appropriate quality control samples attached.

## **Completeness Check**

Data completeness is checked against project specifications. First, all sample points are identified as 100% complete. Then, all tests for each sample point are checked for 100% completeness. A parameter (or analyte) count is verified for each sample and test. A 100% parameter check and/or reporting threshold check can be done if requested in project specifications.

## **Accuracy Check**

The results reported by disk and located in the CED are checked against the hard copy laboratory reports for accuracy. This stage is a 100% check of the accuracy of the data.

## **Comments/Narrative Review**

Three steps are included in the comments/narrative review. First, any comments made by the laboratory are located in the hard copy reports. Second, the quality control section(s) of the laboratory reports are reviewed for obvious quality control deficiencies (matrix spike or replicate outside control limits without appropriate comment). If questionable, the laboratory is contacted for verification. Finally, the appropriate comments are entered into the CED.

## **Overview**

The completed report is reviewed by a person familiar with the project (usually the customer service representative) and a cover letter is produced by the reviewer.

## **Report Finish/Mailing**

The final step is to copy, bind, and mail the report to the client(s) in the format specified in the project specifications.

Corporate Environmental Database  
Lab Analysis Report  
Summary of Positive Results

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 1/03

January 29, 2003  
Page 1

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>PQL</u>	<u>Method No.</u>
Sampling Point: 29600N-INFLOW C of C Sampleid: BAR-G-29600N-INFLOW Date Sampled: Jan 10, 2003 Sample Type: GROUND WATER QC Level: QC (ADQM QC Process)					
TOLUENE	0.69 J	UG/L	0.26	1.0	8260B

Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 1/03  
C of C Sampleid: BAR-G-29600N-INFLOW  
Sampling Point: 29600N-INFLOW  
Date Sampled: JANUARY 10, 2003  
Lab Sample ID: FF3ED-1 Analysis Lab: QES-DEN  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

January 29, 2003  
Page 1

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
Prep/Method: 5030B/8260B						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Jan 15, 2003
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Jan 15, 2003
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Jan 15, 2003
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Jan 15, 2003
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Jan 15, 2003
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Jan 15, 2003
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Jan 15, 2003
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Jan 15, 2003
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Jan 15, 2003
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Jan 15, 2003
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Jan 15, 2003
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Jan 15, 2003
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Jan 15, 2003
ACETONE	1	ND	UG/L	2.9	10	Jan 15, 2003
BENZENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
BROMOFORM	1	ND	UG/L	0.46	1.0	Jan 15, 2003
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Jan 15, 2003
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Jan 15, 2003
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
CHLOROFORM	1	ND	UG/L	0.29	1.0	Jan 15, 2003
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Jan 15, 2003
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Jan 15, 2003
HEXANE	1	ND	UG/L	0.80	1.0	Jan 15, 2003
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Jan 15, 2003
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Jan 15, 2003
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Jan 15, 2003
STYRENE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
TOLUENE	1	0.69 J	UG/L	0.26	1.0	Jan 15, 2003
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Jan 15, 2003
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Jan 15, 2003
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Jan 15, 2003

Surrogates:

1,2-DICHLOROETHANE-D4	1	83.0 RPR				Jan 15, 2003
4-BROMOFLUOROBENZENE	1	94.0 RPR				Jan 15, 2003
DIBROMOFLUOROMETHANE	1	91.0 RPR				Jan 15, 2003
TOLUENE-DB	1	102.0 RPR				Jan 15, 2003

Qualifiers:

J The result is between MDL and PQL and should be considered an estimate.



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELLS 1/03  
C of C Sampleid: BAR-K-TBLK  
Sampling Point: TBLK  
Date Sampled: JANUARY 10, 2003  
Lab Sample ID: FF3D9-1 Analysis Lab: QES-DEN  
Sample Type: BLANK WATER  
QC Level: QC (ADQM QC Process)

January 29, 2003  
Page 2

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
Prep/Method: 5030B/8260B						
1,1,1,2-TETRACHLOROETHANE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
1,1,1-TRICHLOROETHANE	1	ND	UG/L	0.32	1.0	Jan 15, 2003
1,1,2,2-TETRACHLOROETHANE	1	ND	UG/L	0.50	1.0	Jan 15, 2003
1,1,2-TRICHLOROETHANE	1	ND	UG/L	0.41	1.0	Jan 15, 2003
1,1-DICHLOROETHANE	1	ND	UG/L	0.29	1.0	Jan 15, 2003
1,1-DICHLOROETHENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,2,3-TRICHLOROPROPANE	1	ND	UG/L	0.76	1.0	Jan 15, 2003
1,2,4-TRICHLOROBENZENE	1	ND	UG/L	0.63	1.0	Jan 15, 2003
1,2,4-TRIMETHYLBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1	ND	UG/L	0.49	2.0	Jan 15, 2003
1,2-DIBROMOETHANE (EDB)	1	ND	UG/L	0.46	1.0	Jan 15, 2003
1,2-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,2-DICHLOROETHANE	1	ND	UG/L	0.43	1.0	Jan 15, 2003
1,2-DICHLOROETHENE (TOTAL)	1	ND	UG/L	0.54	1.0	Jan 15, 2003
1,2-DICHLOROPROPANE	1	ND	UG/L	0.38	1.0	Jan 15, 2003
1,3,5-TRIMETHYLBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
1,3-DICHLOROBENZENE	1	ND	UG/L	0.30	1.0	Jan 15, 2003
1,3-DICHLOROPROPANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
1,4-DICHLOROBENZENE	1	ND	UG/L	0.31	1.0	Jan 15, 2003
2-BUTANONE (MEK)	1	ND	UG/L	2.4	5.0	Jan 15, 2003
4-METHYL-2-PENTANONE	1	ND	UG/L	1.8	5.0	Jan 15, 2003
ACETONE	1	ND	UG/L	2.9	10	Jan 15, 2003
BENZENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
BROMODICHLOROMETHANE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
BROMOFORM	1	ND	UG/L	0.46	1.0	Jan 15, 2003
BROMOMETHANE	1	ND	UG/L	0.28	2.0	Jan 15, 2003
CARBON DISULFIDE	1	ND	UG/L	0.67	1.0	Jan 15, 2003
CARBON TETRACHLORIDE	1	ND	UG/L	0.35	1.0	Jan 15, 2003
CHLOROBENZENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
CHLOROETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
CHLOROFORM	1	ND	UG/L	0.29	1.0	Jan 15, 2003
CHLOROMETHANE	1	ND	UG/L	0.26	2.0	Jan 15, 2003
DIBROMOCHLOROMETHANE	1	ND	UG/L	0.37	1.0	Jan 15, 2003
DICHLORODIFLUOROMETHANE	1	ND	UG/L	0.44	2.0	Jan 15, 2003
ETHYLBENZENE	1	ND	UG/L	0.51	1.0	Jan 15, 2003
HEXANE	1	ND	UG/L	0.80	1.0	Jan 15, 2003
METHYL TERT-BUTYL ETHER	1	ND	UG/L	0.88	5.0	Jan 15, 2003
METHYLENE CHLORIDE	1	ND	UG/L	0.86	1.0	Jan 15, 2003
NAPHTHALENE	1	ND	UG/L	0.78	1.0	Jan 15, 2003
STYRENE	1	ND	UG/L	0.28	1.0	Jan 15, 2003
TETRACHLOROETHENE	1	ND	UG/L	0.27	1.0	Jan 15, 2003
TOLUENE	1	ND	UG/L	0.26	1.0	Jan 15, 2003
TRICHLOROETHENE	1	ND	UG/L	0.24	1.0	Jan 15, 2003
TRICHLOROFLUOROMETHANE	1	ND	UG/L	0.43	2.0	Jan 15, 2003
VINYL CHLORIDE	1	ND	UG/L	0.26	1.0	Jan 15, 2003
XYLENES (TOTAL)	1	ND	UG/L	0.73	2.0	Jan 15, 2003

Surrogates:

1,2-DICHLOROETHANE-D4	1	85.0 RPR				Jan 15, 2003
4-BROMOFLUOROBENZENE	1	90.0 RPR				Jan 15, 2003
DIBROMOFLUOROMETHANE	1	90.0 RPR				Jan 15, 2003
TOLUENE-D8	1	102.0 RPR				Jan 15, 2003

Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 1/03

January 29, 2003  
Page 1

Batch Identifier

Method Number: 8260B      Prep Method: 5030B      Pre-prep:  
Batch Start Date: 16JAN03  
Instrument: G  
Batch Number: 06

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab Sample ID	QC Level
BAR-G-29600N-INFLOW	10JAN03	FF3ED-1	QES-DEN QC
BAR-K-TBLK	10JAN03	FF3D9-1	QES-DEN QC

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Lab Control Spike:						
1,1-DICHLOROETHENE				107		FF6JQ-1    QES-DEN
BENZENE				113		FF6JQ-1    QES-DEN
CHLOROENZENE				114		FF6JQ-1    QES-DEN
TOLUENE				112		FF6JQ-1    QES-DEN
TRICHLOROETHENE				115		FF6JQ-1    QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				90		FF6JQ-1    QES-DEN
4-BROMOFLUOROBENZENE				92		FF6JQ-1    QES-DEN
DIBROMOFLUOROMETHANE				92		FF6JQ-1    QES-DEN
TOLUENE-D8				99		FF6JQ-1    QES-DEN

Lab Control Spike Duplicate:

1,1-DICHLOROETHENE				104	2.4	FF6JQ-1    QES-DEN
BENZENE				114	.13	FF6JQ-1    QES-DEN
CHLOROENZENE				114	.64	FF6JQ-1    QES-DEN
TOLUENE				114	1.9	FF6JQ-1    QES-DEN
TRICHLOROETHENE				111	2.9	FF6JQ-1    QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4				90	.01	FF6JQ-1    QES-DEN
4-BROMOFLUOROBENZENE				93	.58	FF6JQ-1    QES-DEN
DIBROMOFLUOROMETHANE				93	1.6	FF6JQ-1    QES-DEN
TOLUENE-D8				98	.55	FF6JQ-1    QES-DEN

Method Blank:

1,1,1,2-TETRACHLOROETHANE	ND	UG/L	0.28			FF6JQ-1    QES-DEN
1,1,1-TRICHLOROETHANE	ND	UG/L	0.32			FF6JQ-1    QES-DEN
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	0.50			FF6JQ-1    QES-DEN
1,1,2-TRICHLOROETHANE	ND	UG/L	0.41			FF6JQ-1    QES-DEN
1,1-DICHLOROETHANE	ND	UG/L	0.29			FF6JQ-1    QES-DEN
1,1-DICHLOROETHENE	ND	UG/L	0.31			FF6JQ-1    QES-DEN
1,2,3-TRICHLOROPROPANE	ND	UG/L	0.76			FF6JQ-1    QES-DEN
1,2,4-TRICHLOROBENZENE	ND	UG/L	0.63			FF6JQ-1    QES-DEN
1,2,4-TRIMETHYLBENZENE	ND	UG/L	0.30			FF6JQ-1    QES-DEN
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	UG/L	0.49			FF6JQ-1    QES-DEN
1,2-DIBROMOETHANE (EDB)	ND	UG/L	0.46			FF6JQ-1    QES-DEN
1,2-DICHLOROBENZENE	ND	UG/L	0.30			FF6JQ-1    QES-DEN
1,2-DICHLOROETHANE	ND	UG/L	0.43			FF6JQ-1    QES-DEN
1,2-DICHLOROETHENE (TOTAL)	ND	UG/L	0.54			FF6JQ-1    QES-DEN
1,2-DICHLOROPROPANE	ND	UG/L	0.38			FF6JQ-1    QES-DEN
1,3,5-TRIMETHYLBENZENE	ND	UG/L	0.31			FF6JQ-1    QES-DEN
1,3-DICHLOROBENZENE	ND	UG/L	0.30			FF6JQ-1    QES-DEN
1,3-DICHLOROPROPANE	ND	UG/L	0.37			FF6JQ-1    QES-DEN
1,4-DICHLOROBENZENE	ND	UG/L	0.31			FF6JQ-1    QES-DEN
2-BUTANONE (MEK)	ND	UG/L	2.4			FF6JQ-1    QES-DEN
4-METHYL-2-PENTANONE	ND	UG/L	1.8			FF6JQ-1    QES-DEN
ACETONE	ND	UG/L	2.9			FF6JQ-1    QES-DEN
BENZENE	ND	UG/L	0.27			FF6JQ-1    QES-DEN
BROMODICHLOROMETHANE	ND	UG/L	0.35			FF6JQ-1    QES-DEN
BROMOFORM	ND	UG/L	0.46			FF6JQ-1    QES-DEN
BROMOMETHANE	ND	UG/L	0.28			FF6JQ-1    QES-DEN
CARBON DISULFIDE	ND	UG/L	0.67			FF6JQ-1    QES-DEN
CARBON TETRACHLORIDE	ND	UG/L	0.35			FF6JQ-1    QES-DEN
CHLOROENZENE	ND	UG/L	0.24			FF6JQ-1    QES-DEN

Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELLS 1/03

January 29, 2003  
Page 2

(Batch continued from previous page)

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Method Blank:						
CHLOROETHANE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
CHLOROFORM	ND	UG/L	0.29			FF6JQ-1 QES-DEN
CHLOROMETHANE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
DIBROMOCHLOROMETHANE	ND	UG/L	0.37			FF6JQ-1 QES-DEN
DICHLORODIFLUOROMETHANE	ND	UG/L	0.44			FF6JQ-1 QES-DEN
ETHYLBENZENE	ND	UG/L	0.51			FF6JQ-1 QES-DEN
HEXANE	ND	UG/L	0.80			FF6JQ-1 QES-DEN
METHYL TERT-BUTYL ETHER	ND	UG/L	0.88			FF6JQ-1 QES-DEN
METHYLENE CHLORIDE	ND	UG/L	0.86			FF6JQ-1 QES-DEN
NAPHTHALENE	ND	UG/L	0.78			FF6JQ-1 QES-DEN
STYRENE	ND	UG/L	0.28			FF6JQ-1 QES-DEN
TETRACHLOROETHENE	ND	UG/L	0.27			FF6JQ-1 QES-DEN
TOLUENE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
TRICHLOROETHENE	ND	UG/L	0.24			FF6JQ-1 QES-DEN
TRICHLOROFUOROMETHANE	ND	UG/L	0.43			FF6JQ-1 QES-DEN
VINYL CHLORIDE	ND	UG/L	0.26			FF6JQ-1 QES-DEN
XYLENES (TOTAL)	ND	UG/L	0.73			FF6JQ-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4	92					FF6JQ-1 QES-DEN
4-BROMOFLUOROBENZENE	93					FF6JQ-1 QES-DEN
DIBROMOFLUOROMETHANE	93					FF6JQ-1 QES-DEN
TOLUENE-D8	98					FF6JQ-1 QES-DEN

Matrix Spike:

1,1-DICHLOROETHENE	125					FF3ED-1 QES-DEN
BENZENE	121					FF3ED-1 QES-DEN
CHLOROBENZENE	119					FF3ED-1 QES-DEN
TOLUENE	125					FF3ED-1 QES-DEN
TRICHLOROETHENE	126					FF3ED-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4	82					FF3ED-1 QES-DEN
4-BROMOFLUOROBENZENE	94					FF3ED-1 QES-DEN
DIBROMOFLUOROMETHANE	91					FF3ED-1 QES-DEN
TOLUENE-D8	100					FF3ED-1 QES-DEN

Matrix Spike Duplicate:

1,1-DICHLOROETHENE	112	11				FF3ED-1 QES-DEN
BENZENE	113	7.1				FF3ED-1 QES-DEN
CHLOROBENZENE	117	2.1				FF3ED-1 QES-DEN
TOLUENE	112	11				FF3ED-1 QES-DEN
TRICHLOROETHENE	116	8.2				FF3ED-1 QES-DEN

Surrogates:

1,2-DICHLOROETHANE-D4	82	.31				FF3ED-1 QES-DEN
4-BROMOFLUOROBENZENE	93	.75				FF3ED-1 QES-DEN
DIBROMOFLUOROMETHANE	92	1.6				FF3ED-1 QES-DEN
TOLUENE-D8	100	.44				FF3ED-1 QES-DEN

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Severn Trent Laboratories, Inc.

CHAIN OF CUSTODY NUMBER



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Project Manager <b>ADQM AP Services</b>		Date <b>01/02/2003</b>	Page <u>4</u> of <u>4</u>
Telephone Number (Area Code)/Fax Number <b>(000) / (000)</b>		Lab Location <b>STL Denver</b>	
Support De Nemours <b>Mill Plaza Building 27</b>	State <b>DE</b>	Zip Code <b>19805</b>	Analysis
Site Contact <b>ADQM AP Services</b>			
Carrier/Waybill Number			

Purchase Order/Quote Number  
**CT / PURCHASE ORDER # : 7035-507355-772000/LB10-64568** QUOTE: 39097

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
<b>K-TBLK</b>			<b>WATER</b>	<b>40mL</b>	<b>VIAL</b>	<b>3</b>	<b>1:1 HCL</b>	
<p><i>Filled by Lab No DATE &amp; TIME provided. COP 1/10/2003</i></p>								

Instructions **Protocol K**

Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 3 months)
<input type="checkbox"/> Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Round Time Required	QC Level	Project Specific Requirements (Specify)
<input type="checkbox"/> Rush <input type="checkbox"/> Other _____	<input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	

Received By <i>[Signature]</i>	Date <b>1/6/03</b>	Time <b>1450</b>	1. Received By <i>[Signature]</i> -UKSD	Date <b>1/10/2003</b>	Time <b>0800</b>
Received By <i>[Signature]</i> UKSD	Date <b>1/11/2003</b>	Time	2. Received By <i>[Signature]</i>	Date <b>1/11/2003</b>	Time
Received By <i>[Signature]</i> Ex	Date	Time	3. Received By <i>[Signature]</i>	Date <b>1/13/03</b>	Time <b>0830</b>

102869

**SEVERN  
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SERVICES**

Severn Trent Laboratories, Inc.

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Dupont De Nemours		Project Manager ADQM AP Services		Date 01/02/2003		Page <u>1</u> of <u>4</u>	
y Mill Plaza Building 27		Telephone Number (Area Code)/Fax Number (000) / (000)		Lab Location STL Denver		Analysis	
State DE		Zip Code 19805		Site Contact ADQM AP Services			
Number/Name		Carrier/Waybill Number					
Purchase Order/Quote Number ACT / PURCHASE ORDER # : 7035-507355-772000/LBIO-64568				QUOTE: 39097			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	
				Volume	Type	No.			
-G-29600N-INFLOW	1/10/2003	1101	WATER	40mL	VIAL	3	1:1 HCL		X
-G-29600N-INFLOW-MS	↓	1101	WATER	40mL	VIAL	3	1:1 HCL		X
-G-29600N-INFLOW-MSD	↓	1101	WATER	40mL	VIAL	3	1:1 HCL		X

Instructions Protocol K			Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)				
Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.				
Ground Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			Project Specific Requirements (Specify)				
Acquired By <i>[Signature]</i>		Date 1/6/03	Time 1450	1. Received By <i>[Signature]</i> UKSD		Date 1/10/2003	Time
Acquired By <i>[Signature]</i> UKSD		Date 1/11/2003	Time	2. Received By <i>[Signature]</i>		Date	Time
Acquired By <i>[Signature]</i>		Date	Time	3. Received By <i>[Signature]</i>		Date 1/14/03	Time 0830

**BARKSDALE WORKS  
RESIDENT WELL SAMPLING 1/03A  
Barksdale, WI**

**January 30, 2003**

*Prepared for*

Brad Nave, DuPont CRG

Cary Pooler, URS Diamond

*Prepared by*

URS Diamond  
Laboratory Services – Sharon A. Nordstrom  
Barley Mill Plaza, Building 27  
Wilmington, DE 19805

# Corporate Remediation Group

## Corporate Environmental Database Check List

**Location:** Barksdale Works  
Barksdale, WI

**Jobname:** Resident Well Sampling 1/03A

SAN	<p><b>Preliminary Administration</b></p> <p>Review Project Sheet</p> <p>Verify location/jobname in sample table</p>
SAN	<p><b>Project Backstop</b></p> <p>Disk Deliverable Integrity</p> <p>QC Batch Integrity</p> <p>(Correct problems/Pull backstop as necessary)</p>
SAN	<p><b>Completeness Check</b></p> <p>Samples    ___X___ 100%</p> <p>Tests       ___X___ 100%</p> <p>Parameters  _____ 100%</p> <p>              or  ___X___ &lt;100%</p>
N/A	<p><b>Accuracy Check</b></p> <p>CED Results vs. Hard Copy Lab Reports</p>
SAN	<p><b>Comments/Narrative Review</b></p>
SAN	<p><b>Laboratory Services Coordinator Overview</b></p> <p>Review Report</p> <p>Cover letter/title page for customer</p>
CG	<p><b>Report Finish</b></p> <p>Copy and Bind</p>
CG	<p><b>Mail to Client(s)</b></p>

Sharon A. Nordstrom  
Certified by

January 30, 2003  
Date

# Reporting Process

The following process is followed on all projects where data is delivered to the Corporate Environmental Database (CED) and a report is generated from the CED. All projects which bypass the CED (are directly reported by a laboratory) do not receive the rigorous treatment presented below.

## **Preliminary Administration**

To begin a report, the reporting coordinator checks the file and updates the reporting schedule. A review of the project sheet is the next step to familiarize the coordinator with specifications and special instructions. Finally, the location and jobname are either added, corrected, or verified to ensure all samples are properly identified as in the project.

## **Project Backstop**

First, the backstop is used to check the disk deliverable integrity of all project data. This tool checks the CED readiness of the data. Second, quality control batch integrity is checked by the backstop. It is verified that all samples for each test have appropriate quality control samples attached.

## **Completeness Check**

Data completeness is checked against project specifications. First, all sample points are identified as 100% complete. Then, all tests for each sample point are checked for 100% completeness. A parameter (or analyte) count is verified for each sample and test. A 100% parameter check and/or reporting threshold check can be done if requested in project specifications.

## **Accuracy Check**

The results reported by disk and located in the CED are checked against the hard copy laboratory reports for accuracy. This stage is a 100% check of the accuracy of the data.

## **Comments/Narrative Review**

Three steps are included in the comments/narrative review. First, any comments made by the laboratory are located in the hard copy reports. Second, the quality control section(s) of the laboratory reports are reviewed for obvious quality control deficiencies (matrix spike or replicate outside control limits without appropriate comment). If questionable, the laboratory is contacted for verification. Finally, the appropriate comments are entered into the CED.

## **Overview**

The completed report is reviewed by a person familiar with the project (usually the customer service representative) and a cover letter is produced by the reviewer.

## **Report Finish/Mailing**

The final step is to copy, bind, and mail the report to the client(s) in the format specified in the project specifications.



Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELL SAMPLING 1/03A  
C of C Sampleid: BAR-G-29600N-INFLOW  
Sampling Point: 29600N-INFLOW  
Date Sampled: JANUARY 10, 2003  
Lab Sample ID: 3978297-1 Analysis Lab: LANCAS  
Sample Type: GROUND WATER  
QC Level: QC (ADQM QC Process)

January 30, 2003  
Page 1

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 5030B/8260B</u>						
1,1,1-TRICHLOROETHANE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
1,1,2,2-TETRACHLOROETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
1,1,2-TRICHLOROETHANE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
1,1-DICHLOROETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
1,1-DICHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
1,2-DICHLOROETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
1,2-DICHLOROPROPANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
2-BUTANONE	1	ND U	UG/L	3.	10.	Jan 21, 2003
2-HEXANONE	1	ND U	UG/L	3.	10.	Jan 21, 2003
4-METHYL-2-PENTANONE	1	ND U	UG/L	3.	10.	Jan 21, 2003
ACETONE	1	ND U	UG/L	6.	20.	Jan 21, 2003
BENZENE	1	ND U	UG/L	0.5	5.	Jan 21, 2003
BROMODICHLOROMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
BROMOFORM	1	ND U	UG/L	1.	5.	Jan 21, 2003
BROMOMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CARBON DISULFIDE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CARBON TETRACHLORIDE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CHLOROETHANE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
CHLOROETHENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CHLOROFORM	1	ND U	UG/L	0.8	5.	Jan 21, 2003
CHLOROMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CIS-1,2-DICHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
CIS-1,3-DICHLOROPROPENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
DIBROMOCHLOROMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
ETHYLBENZENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
METHYLENE CHLORIDE	1	ND U	UG/L	2.	5.	Jan 21, 2003
STYRENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
TETRACHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
TOLUENE	1	ND U	UG/L	0.7	5.	Jan 21, 2003
TRANS-1,2-DICHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
TRANS-1,3-DICHLOROPROPENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
TRICHLOROETHENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
VINYL CHLORIDE	1	ND U	UG/L	1.	5.	Jan 21, 2003
XYLENE (TOTAL)	1	ND U	UG/L	0.8	5.	Jan 21, 2003

Surrogates:

1,2-DICHLOROETHANE-D4	1	90.0 RPR				Jan 21, 2003
4-BROMOFLUOROBENZENE	1	93.0 RPR				Jan 21, 2003
DIBROMOFLUOROMETHANE	1	91.0 RPR				Jan 21, 2003
TOLUENE-D8	1	92.0 RPR				Jan 21, 2003

Qualifiers:

U The constituent should be considered not detected.

Corporate Environmental Database  
Lab Analysis Report

Location: BARKSDALE WORKS  
Job Name: RESIDENT WELL SAMPLING 1/03A  
C of C Sampleid: BAR-K-TBLK  
Sampling Point: TBLK  
Date Sampled: JANUARY 10, 2003  
Lab Sample ID: 3978298-1 Analysis Lab: LANCAS  
Sample Type: BLANK WATER  
QC Level: QC (ADQM QC Process)

January 30, 2003  
Page 2

Analyte/Parameter	Dilution	Result	Unit	MDL	PQL	Date Analyzed
<u>Prep/Method: 5030B/8260B</u>						
1,1,1-TRICHLOROETHANE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
1,1,2,2-TETRACHLOROETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
1,1,2-TRICHLOROETHANE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
1,1-DICHLOROETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
1,1-DICHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
1,2-DICHLOROETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
1,2-DICHLOROPROPANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
2-BUTANONE	1	ND U	UG/L	3.	10.	Jan 21, 2003
2-HEXANONE	1	ND U	UG/L	3.	10.	Jan 21, 2003
4-METHYL-2-PENTANONE	1	ND U	UG/L	3.	10.	Jan 21, 2003
ACETONE	1	ND U	UG/L	6.	20.	Jan 21, 2003
BENZENE	1	ND U	UG/L	0.5	5.	Jan 21, 2003
BROMODICHLOROMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
BROMOFORM	1	ND U	UG/L	1.	5.	Jan 21, 2003
BROMOMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CARBON DISULFIDE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CARBON TETRACHLORIDE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CHLOROETHANE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
CHLOROETHENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CHLOROFORM	1	ND U	UG/L	0.8	5.	Jan 21, 2003
CHLOROMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
CIS-1,2-DICHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
CIS-1,3-DICHLOROPROPENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
DIBROMOCHLOROMETHANE	1	ND U	UG/L	1.	5.	Jan 21, 2003
ETHYLBENZENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
METHYLENE CHLORIDE	1	ND U	UG/L	2.	5.	Jan 21, 2003
STYRENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
TETRACHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
TOLUENE	1	ND U	UG/L	0.7	5.	Jan 21, 2003
TRANS-1,2-DICHLOROETHENE	1	ND U	UG/L	0.8	5.	Jan 21, 2003
TRANS-1,3-DICHLOROPROPENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
TRICHLOROETHENE	1	ND U	UG/L	1.	5.	Jan 21, 2003
VINYL CHLORIDE	1	ND U	UG/L	1.	5.	Jan 21, 2003
XYLENE (TOTAL)	1	ND U	UG/L	0.8	5.	Jan 21, 2003

Surrogates:

1,2-DICHLOROETHANE-D4	1	89.0 RPR				Jan 21, 2003
4-BROMOFLUOROBENZENE	1	95.0 RPR				Jan 21, 2003
DIBROMOFLUOROMETHANE	1	91.0 RPR				Jan 21, 2003
TOLUENE-D8	1	95.0 RPR				Jan 21, 2003

Qualifiers:

U The constituent should be considered not detected.

Corporate Environmental Database  
Lab Analysis QAQC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELL SAMPLING 1/03A

January 30, 2003  
Page 1

Batch Identifier

Method Number: 8260B      Prep Method: 5030B      Pre-prep:  
Batch Start Date: 21JAN03  
Instrument: 067190  
Batch Number: 1

The following field samples are included in this batch:

<u>Sample Name</u>	<u>Date</u>	<u>Lab Sample ID</u>	<u>QC Level</u>
BAR-G-29600N-INFLOW	10JAN03	3978297-1	LANCAS QC
BAR-K-TBLK	10JAN03	3978298-1	LANCAS QC

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Lab Control Spike:						
1,1,1-TRICHLOROETHANE				110	LCS-1	LANCAS
1,1,2,2-TETRACHLOROETHANE				104	LCS-1	LANCAS
1,1,2-TRICHLOROETHANE				107	LCS-1	LANCAS
1,1-DICHLOROETHANE				110	LCS-1	LANCAS
1,1-DICHLOROETHENE				106	LCS-1	LANCAS
1,2-DICHLOROETHANE				110	LCS-1	LANCAS
1,2-DICHLOROPROPANE				104	LCS-1	LANCAS
2-BUTANONE				112	LCS-1	LANCAS
2-HEXANONE				103	LCS-1	LANCAS
4-METHYL-2-PENTANONE				99	LCS-1	LANCAS
ACETONE				82	LCS-1	LANCAS
BENZENE				103	LCS-1	LANCAS
BROMODICHLOROMETHANE				106	LCS-1	LANCAS
BROMOFORM				102	LCS-1	LANCAS
BROMOMETHANE				82	LCS-1	LANCAS
CARBON DISULFIDE				108	LCS-1	LANCAS
CARBON TETRACHLORIDE				106	LCS-1	LANCAS
CHLOROBENZENE				106	LCS-1	LANCAS
CHLOROETHANE				89	LCS-1	LANCAS
CHLOROFORM				106	LCS-1	LANCAS
CHLOROMETHANE				115	LCS-1	LANCAS
CIS-1,2-DICHLOROETHENE				98	LCS-1	LANCAS
CIS-1,3-DICHLOROPROPENE				106	LCS-1	LANCAS
DIBROMOCHLOROMETHANE				104	LCS-1	LANCAS
ETHYLBENZENE				109	LCS-1	LANCAS
METHYLENE CHLORIDE				102	LCS-1	LANCAS
STYRENE				106	LCS-1	LANCAS
TETRACHLOROETHENE				107	LCS-1	LANCAS
TOLUENE				102	LCS-1	LANCAS
TRANS-1,2-DICHLOROETHENE				101	LCS-1	LANCAS
TRANS-1,3-DICHLOROPROPENE				108	LCS-1	LANCAS
TRICHLOROETHENE				102	LCS-1	LANCAS
VINYL CHLORIDE				116	LCS-1	LANCAS
XYLENE (TOTAL)				105	LCS-1	LANCAS

Method Blank:

1,1,1-TRICHLOROETHANE	ND	UG/L	.8		BLANKA-1	LANCAS
1,1,2,2-TETRACHLOROETHANE	ND	UG/L	1		BLANKA-1	LANCAS
1,1,2-TRICHLOROETHANE	ND	UG/L	.8		BLANKA-1	LANCAS
1,1-DICHLOROETHANE	ND	UG/L	1		BLANKA-1	LANCAS
1,1-DICHLOROETHENE	ND	UG/L	.8		BLANKA-1	LANCAS
1,2-DICHLOROETHANE	ND	UG/L	1		BLANKA-1	LANCAS
1,2-DICHLOROPROPANE	ND	UG/L	1		BLANKA-1	LANCAS
2-BUTANONE	ND	UG/L	3		BLANKA-1	LANCAS
2-HEXANONE	ND	UG/L	3		BLANKA-1	LANCAS
4-METHYL-2-PENTANONE	ND	UG/L	3		BLANKA-1	LANCAS
ACETONE	ND	UG/L	6		BLANKA-1	LANCAS
BENZENE	ND	UG/L	.5		BLANKA-1	LANCAS
BROMODICHLOROMETHANE	ND	UG/L	1		BLANKA-1	LANCAS
BROMOFORM	ND	UG/L	1		BLANKA-1	LANCAS
BROMOMETHANE	ND	UG/L	1		BLANKA-1	LANCAS
CARBON DISULFIDE	ND	UG/L	1		BLANKA-1	LANCAS
CARBON TETRACHLORIDE	ND	UG/L	1		BLANKA-1	LANCAS
CHLOROBENZENE	ND	UG/L	.8		BLANKA-1	LANCAS
CHLOROETHANE	ND	UG/L	1		BLANKA-1	LANCAS
CHLOROFORM	ND	UG/L	.8		BLANKA-1	LANCAS
CHLOROMETHANE	ND	UG/L	1		BLANKA-1	LANCAS
CIS-1,2-DICHLOROETHENE	ND	UG/L	.8		BLANKA-1	LANCAS
CIS-1,3-DICHLOROPROPENE	ND	UG/L	1		BLANKA-1	LANCAS

Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELL SAMPLING 1/03A

January 30, 2003  
Page 2

(Batch continued from previous page)

Analyte/Parameter	Result	Unit	MDL	RPR	RPD	Lab Sample ID
Method Blank:						
DIBROMOCHLOROMETHANE	ND	UG/L	1			BLANKA-1 LANCAS
ETHYLBENZENE	ND	UG/L	.8			BLANKA-1 LANCAS
METHYLENE CHLORIDE	ND	UG/L	2			BLANKA-1 LANCAS
STYRENE	ND	UG/L	1			BLANKA-1 LANCAS
TETRACHLOROETHENE	ND	UG/L	.8			BLANKA-1 LANCAS
TOLUENE	ND	UG/L	.7			BLANKA-1 LANCAS
TRANS-1,2-DICHLOROETHENE	ND	UG/L	.8			BLANKA-1 LANCAS
TRANS-1,3-DICHLOROPROPENE	ND	UG/L	1			BLANKA-1 LANCAS
TRICHLOROETHENE	ND	UG/L	1			BLANKA-1 LANCAS
VINYL CHLORIDE	ND	UG/L	1			BLANKA-1 LANCAS
XYLENE (TOTAL)	ND	UG/L	.8			BLANKA-1 LANCAS
Matrix Spike:						
1,1,1-TRICHLOROETHANE				113		3978297-1 LANCAS
1,1,2,2-TETRACHLOROETHANE				100		3978297-1 LANCAS
1,1,2-TRICHLOROETHANE				101		3978297-1 LANCAS
1,1-DICHLOROETHANE				111		3978297-1 LANCAS
1,1-DICHLOROETHENE				105		3978297-1 LANCAS
1,2-DICHLOROETHANE				109		3978297-1 LANCAS
1,2-DICHLOROPROPANE				103		3978297-1 LANCAS
2-BUTANONE				73		3978297-1 LANCAS
2-HEXANONE				89		3978297-1 LANCAS
4-METHYL-2-PENTANONE				92		3978297-1 LANCAS
ACETONE				45		3978297-1 LANCAS
BENZENE				105		3978297-1 LANCAS
BROMODICHLOROMETHANE				103		3978297-1 LANCAS
BROMOFORM				75		3978297-1 LANCAS
BROMOMETHANE				85		3978297-1 LANCAS
CARBON DISULFIDE				107		3978297-1 LANCAS
CARBON TETRACHLORIDE				112		3978297-1 LANCAS
CHLOROBENZENE				104		3978297-1 LANCAS
CHLOROETHANE				98		3978297-1 LANCAS
CHLOROFORM				106		3978297-1 LANCAS
CHLOROMETHANE				123		3978297-1 LANCAS
CIS-1,2-DICHLOROETHENE				102		3978297-1 LANCAS
CIS-1,3-DICHLOROPROPENE				101		3978297-1 LANCAS
DIBROMOCHLOROMETHANE				90		3978297-1 LANCAS
ETHYLBENZENE				108		3978297-1 LANCAS
METHYLENE CHLORIDE				107		3978297-1 LANCAS
STYRENE				100		3978297-1 LANCAS
TETRACHLOROETHENE				108		3978297-1 LANCAS
TOLUENE				107		3978297-1 LANCAS
TRANS-1,2-DICHLOROETHENE				107		3978297-1 LANCAS
TRANS-1,3-DICHLOROPROPENE				107		3978297-1 LANCAS
TRICHLOROETHENE				104		3978297-1 LANCAS
VINYL CHLORIDE				125		3978297-1 LANCAS
XYLENE (TOTAL)				105		3978297-1 LANCAS
Matrix Spike Duplicate:						
1,1,1-TRICHLOROETHANE				108	4	3978297-1 LANCAS
1,1,2,2-TETRACHLOROETHANE				96	4	3978297-1 LANCAS
1,1,2-TRICHLOROETHANE				101	0	3978297-1 LANCAS
1,1-DICHLOROETHANE				107	4	3978297-1 LANCAS
1,1-DICHLOROETHENE				103	1	3978297-1 LANCAS
1,2-DICHLOROETHANE				104	4	3978297-1 LANCAS
1,2-DICHLOROPROPANE				100	3	3978297-1 LANCAS
2-BUTANONE				73	0	3978297-1 LANCAS
2-HEXANONE				83	7	3978297-1 LANCAS
4-METHYL-2-PENTANONE				89	3	3978297-1 LANCAS
ACETONE				41	8	3978297-1 LANCAS
BENZENE				103	2	3978297-1 LANCAS
BROMODICHLOROMETHANE				98	5	3978297-1 LANCAS
BROMOFORM				73	2	3978297-1 LANCAS
BROMOMETHANE				85	1	3978297-1 LANCAS
CARBON DISULFIDE				103	4	3978297-1 LANCAS
CARBON TETRACHLORIDE				107	5	3978297-1 LANCAS
CHLOROBENZENE				99	5	3978297-1 LANCAS
CHLOROETHANE				94	3	3978297-1 LANCAS
CHLOROFORM				103	3	3978297-1 LANCAS
CHLOROMETHANE				124	1	3978297-1 LANCAS
CIS-1,2-DICHLOROETHENE				93	10	3978297-1 LANCAS

Corporate Environmental Database  
Lab Analysis QA/QC Report

Location: BARKSDALE WORKS  
Project Name: RESIDENT WELL SAMPLING 1/03A

January 30, 2003  
Page 3

(Batch continued from previous page)

<u>Analyte/Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>MDL</u>	<u>RPR</u>	<u>RPD</u>	<u>Lab Sample ID</u>
Matrix Spike Duplicate:						
CIS-1,3-DICHLOROPROPENE				97	4	3978297-1 LANCAS
DIBROMOCHLOROMETHANE				88	3	3978297-1 LANCAS
ETHYLBENZENE				104	4	3978297-1 LANCAS
METHYLENE CHLORIDE				101	6	3978297-1 LANCAS
STYRENE				97	3	3978297-1 LANCAS
TETRACHLOROETHENE				107	0	3978297-1 LANCAS
TOLUENE				106	0	3978297-1 LANCAS
TRANS-1,2-DICHLOROETHENE				102	5	3978297-1 LANCAS
TRANS-1,3-DICHLOROPROPENE				100	7	3978297-1 LANCAS
TRICHLOROETHENE				104	0	3978297-1 LANCAS
VINYL CHLORIDE				130	4	3978297-1 LANCAS
XYLENE (TOTAL)				103	2	3978297-1 LANCAS



Chain of Custody  
Record

7032/3978297-98/837885

CHAIN OF CUSTODY NUMBER



\* 0 0 8 9 7 4 - 0 0 2 \*

SEVERN  
TRENT  
SERVICES

102870

Severn Trent Laboratories, Inc.

Contract/Purchase Order/Quote Number		Project Manager	Date	Page <u>2</u> of <u>4</u>
TRACT / PURCHASE ORDER # : 7035-507355-772000/LBIO-64568		ADQM AP Services	01/02/2003	
Sample I.D. Number and Description		Telephone Number (Area Code)/Fax Number	Lab Location	Analysis
AR-G-29600N-INFLOW-MS		(000) / (000)	STL Denver	
State	Zip Code	Site Contact		
DE	19805	ADQM AP Services		
Project Number/Name		Carrier/Waybill Number		

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	
				Volume	Type	No.			
AR-G-29600N-INFLOW-MS	1/10/2003	1101	WATER	40mL	VIAL	3	1:1 HCL		X
AR-G-29600N-INFLOW-MS	1/10/2003	1101							
		8D							
		1/14/03							
AR-K-TBLK						1			X

Special Instructions: Protocol K

Possible Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 3 months)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____ Relinquished By: <i>[Signature]</i> Date: 1/6/03 Time: 1450	QC Level: <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III. Relinquished By: <i>[Signature]</i> Date: 1/11/2003 Time:	Project Specific Requirements (Specify) 1. Received By: <i>Craig Foster URSD</i> Date: 1/10/2003 Time: 0800 2. Received By: <i>Fed</i> Date: Time: 3. Received By: <i>Denny Y. [Signature]</i> Date: 1/7/03 Time: 0915			
Relinquished By: <i>Fed</i> Date: 1/14/03 Time: 1600					

ion: BARKSDALE WORKS  
me: RESIDENT WELL SAMPLING 1/03A

Corporate Environmental Database  
Project Backstop -- Sample Info

Report Date: January 30, 2003  
Report Time: 14:36:47

ng of Samples:

DE	WORKORD	FRA	SAMPLENO	DATESMPL	TIME	MATRIX	SMPLTYPE	LV2	LOC	SRCNAME	SM	DUP	F	TOP	BOTTOM	ZUNIT	QC	LVL	TDATE
S	3978297	1	BAR-G-29600N-INFLOW	10-JAN-03	1101	WATER	GROUND WATER	-->	BAR	29600N-INFLOW	FS	1	T				QC		01/28/03
S	3978298	1	BAR-K-TBLK	10-JAN-03	1101	WATER	BLANK WATER	-->	BAR	TBLK	TB	1	T				QC		01/28/03

s selected.



Location: BARKSDALE WORKS  
Name: RESIDENT WELL SAMPLING 1/03A

Corporate Environmental Database  
Project Backstop -- Level 1 Data Problems

Report Date: January 30, 2003  
Report Time: 14:36:47

TIME

-----  
N-2003 14:37:27

the following records, the RPR does not fall within the acceptable limits and there is no comment. Please check the data. Enter all necessary comments.

CODE	WORKORD	FRA	PREPREP	PREPMTHD	METHODNO	BTCHDATE	INSTRMNT	BATCHNO	SAMP	RSL	ANALYTE	RPR	MIN RPR	MAX RPR	DILFC
AS	3978297	1		5030B	8260B	21-JAN-03	067190	1	MS	FS	ACETONE	45	49	143	1
AS	3978297	1		5030B	8260B	21-JAN-03	067190	1	MSD	FS	ACETONE	41	49	143	1

project contains the following batches and records in the Analysis Table.  
 number of rows selected should match the following query from the Result Table.

REP	PREPMTHD	METHODNO	BTCHDATE	INSTRMNT	BN	SAMP	COUNT(*)
	5030B	8260B	21-JAN-03	067190	1	FS	2
	5030B	8260B	21-JAN-03	067190	1	LCS	1
	5030B	8260B	21-JAN-03	067190	1	MB	1
	5030B	8260B	21-JAN-03	067190	1	MS	1
	5030B	8260B	21-JAN-03	067190	1	MSD	1

rows selected.

project contains the following batches and records in the Result Table.  
 number of rows selected should match the previous query from the Analysis Table.

REP	PREPMTHD	METHODNO	BTCHDATE	INSTRMNT	BN	SAMP	COUNT
	5030B	8260B	21-JAN-03	067190	1	FS	2
	5030B	8260B	21-JAN-03	067190	1	LCS	1
	5030B	8260B	21-JAN-03	067190	1	MB	1
	5030B	8260B	21-JAN-03	067190	1	MS	1
	5030B	8260B	21-JAN-03	067190	1	MSD	1

rows selected.

TIME

JAN-2003 14:37:31

Location: BARKSDALE WORKS  
Name: RESIDENT WELL SAMPLING 1/03A

Corporate Environmental Database  
Project Backstop -- Level 2 Data Problems

Report Date: January 30, 2003  
Report Time: 14:36:47

DATE/TIME  
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JAN-2003 14:37:32

DATE/TIME  
-----  
JAN-2003 14:37:35

DATE/TIME  
-----  
JAN-2003 14:37:36

DATE/TIME  
-----  
JAN-2003 14:37:38

DATE/TIME  
-----  
JAN-2003 14:37:38

Multiple Jobnames not found in Field Data tables (GW\_SAMPLE)

NAME  
-----  
RESIDENT WELL SAMPLING 1/03A

DATE/TIME  
-----  
JAN-2003 14:37:40



*Setting the Standards for Innovative Environmental Solutions*

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**QUALITY ASSURANCE REVIEW OF THE  
AQUEOUS SAMPLES COLLECTED ON DECEMBER 9, 10, 12, AND 13, 2002  
FOR THE DUPONT CORPORATE REMEDIATION GROUP  
12/02 GROUNDWATER SAMPLING PROJECT  
AT THE BARKSDALE, WISCONSIN FACILITY**

January 28, 2003

Prepared for:

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Prepared by:

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Valley Forge, PA 19482-0810

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**Introduction**

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B.      Conclusions

**Section 2      Target Analyte Summary**

**Section 3      Organic Data Support Documentation**

A.      Project Number D2L110254

B.      Project Number D2L120349

**Section 4      Laboratory Case Narratives and Project Chain-of-Custody Records**

**Section 5      Project Correspondence**

## Executive Summary

An analytical quality assurance review was performed on data for the 34 aqueous samples (including quality control samples) collected in association with the DuPont Corporate Remediation Group 12/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The organic analyses were performed by an SW-846 method. Comprehensive Contract Laboratory Program (CLP)-like raw data packages were prepared by the laboratory and were reviewed by Environmental Standards.

The quality of the data is acceptable; however, the following qualifications were made:

- the result for HMX in one sample was qualified as estimated due to low recoveries in the matrix spike/matrix spike duplicate analyses; and
- based on standard project reporting requirements, the positive nitroaromatics and nitroamines results reported with concentrations between the laboratory's associated method detection limits and practical quantitation limits have been flagged "J".

Any reporting errors identified during the quality assurance review were corrected by the data reviewer or the laboratory. Amended data package pages provided by the laboratory have been included in the Project Correspondence section of the quality assurance review.

## **Introduction**

This quality assurance (QA) review is based upon a rigorous examination of data generated from the 34 aqueous samples (including quality control [QC] samples) that were collected on December 9, 10, 12, and 13, 2002, as part of the DuPont Corporate Remediation Group 12/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The samples that have undergone a QA review are listed on Table 1. Table 1 also presents the field sample number, laboratory sample number, STL project number, collection date, and parameter analyzed and reviewed for each sample.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (US EPA, 2/94).

The reported analytical results are presented on the data tables included in Section 2, "Target Analyte Summary." These data tables have been generated from the Corporate Environmental Database (CED) and include all final data validation qualifiers and results. Data were examined to determine the usability of the analytical results and compliance relative to requirements specified by "Test Methods for Evaluating Solid Waste" (SW-846, Third Revision, 1986, and updates as applicable). In addition, the deliverables prepared according to a Contract Laboratory Program-like data package were evaluated. Details of this QA review are presented in Section 1 of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

TABLE 1

## SUMMARY OF GROUNDWATER SAMPLE DATA REVIEWED

## DUPONT BARKSDALE, WISCONSIN FACILITY

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	STL Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-73030BG-INFLOW	FELWX	- D2L110254	12/09/02	E
BAR-G-72920H-INFLOW	FELW7	D2L110254	12/09/02	E
BAR-G-73025BG-INFLOW	FELW9	D2L110254	12/09/02	E
BAR-G-73080BG-INFLOW	FELXD	D2L110254	12/09/02	E
BAR-G-72700H-INFLOW	FELXN	D2L110254	12/09/02	E
BAR-G-72700H-INFLOWMS (Matrix Spike)	FELXNMS	D2L110254	12/09/02	E
BAR-G-72700H-INFLOWMSD (Matrix Spike Duplicate)	FELXNMSD	D2L110254	12/09/02	E
BAR-G-72700H-EFFLUENT	FELXW	D2L110254	12/09/02	E
BAR-G-72910H-INFLOW	FELX0	D2L110254	12/09/02	E
BAR-G-30700N-INFLOW	FELX4	D2L110254	12/09/02	E
BAR-G-30700N-EFFLUENT	FELX9	D2L110254	12/09/02	E
BAR-G-30810N-INFLOW	FEL0G	D2L110254	12/09/02	E
BAR-G-30810N-EFFLUENT	FEL0K	D2L110254	12/09/02	E
BAR-G-72520H-INFLOW	FEL0N	D2L110254	12/09/02	E
BAR-G-72520H-EFFLUENT	FEL0R	D2L110254	12/09/02	E
BAR-G-73250H-INFLOW	FEL0W	D2L110254	12/09/02	E
BAR-G-73160H-INFLOW	FEL02	D2L110254	12/09/02	E
BAR-G-72330H-INFLOW	FEQFD	D2L120349	12/10/02	E
BAR-G-72330H-EFFLUENT	FEQFK	D2L120349	12/10/02	E
BAR-G-CLUBHOUSE-INFLOW	FEQFM	D2L120349	12/10/02	E
BAR-G-CLUBHOUSE-EFFLUENT	FEQFN	D2L120349	12/10/02	E



TABLE 1 (Cont.)

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	STL Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-73150BJ-INFLOW	FEQFX	D2L120349	12/10/02	E
BAR-G-73100BG-INFLOW	FEQF2	D2L120349	12/10/02	E
BAR-G-73110H-INFLOW	FEQF3	D2L120349	12/10/02	E
BAR-G-73110H-EFFLUENT	FEQF6	D2L120349	12/10/02	E
BAR-G-72410H-INFLOW	FEQF7	D2L120349	12/10/02	E
BAR-G-72410H-EFFLUENT	FEQF8	D2L120349	12/10/02	E
BAR-G-72420H-INFLOW	FEQGE	D2L120349	12/10/02	E
BAR-G-72420H-EFFLUENT	FEQGK	D2L120349	12/10/02	E
BAR-G-29600N-INFLOW	FEV9E	D2L120349	12/13/02	E
BAR-G-29600N-INFLOWMS (Matrix Spike)	FEV9EMS	D2L120349	12/13/02	E
BAR-G-29600N-INFLOWMSD (Matrix Spike Duplicate)	FEV9EMSD	D2L120349	12/13/02	E
BAR-G-73120BG-INFLOW	FEV9M	D2L120349	12/12/02	E
BAR-G-73120BG-EFFLUENT	FEV9T	D2L120349	12/12/02	E

NOTE:

E - Nitroaromatics and Nitroamines by SW-846 Method 8321A (Modified per STL SOP No. DEN-LC-0010, Revision No. 3) (34 analyses).

## Section 1 Quality Assurance Review

### A. Organic Data

The organic analyses of 34 aqueous samples (including QC samples) collected as part of the DuPont Corporate Remediation Group (DuPont) 12/02 Groundwater Sampling Project at the Barksdale, Wisconsin, Facility on December 9, 10, 12, and 13, 2002, were performed by Severn Trent Laboratories, Inc. (STL) in Denver, Colorado. All samples were analyzed for nitroaromatics and nitroamines according to SW-846 Method 8321A, as specified in "Test Methods for Evaluating Solid Waste" (SW-846, Third Edition, Final Update II, September, 1994) and modified as specified in STL proprietary Standard Operating Procedure (SOP) No. DEN-LC-0010 (Revision No. 3). This modified method uses liquid chromatography with a thermospray interfaced to a mass spectrometer (LC/TSP/MS). These analyses are identified on Table 1. The data were presented in two Contract Laboratory Program (CLP)-like data packages.

The findings offered in this report are based upon a rigorous review of the following:

- sample holding times
- blank analysis results
- surrogate recoveries
- matrix spike (MS) and MS duplicate (MSD) recoveries and precision
- quantitation of results
- field duplicate precision
- sample condition upon laboratory receipt
- initial and continuing calibrations
- analytical sequence
- laboratory control sample (LCS) recoveries
- qualitative identification

The analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

### Data Package Deliverables

Overall, the organic data quality is good. The following analytical criteria and reporting requirements were not met for the original data packages received. Reporting errors identified during the quality assurance review were corrected by the data reviewer or the laboratory. Amended data package pages provided by the laboratory have been included in the Project Correspondence (Section 5). The following items do not affect data usability. Usability is addressed in the Data Evaluation section.

### Noncorrectable Deficiencies

1. As noted in the Laboratory Case Narrative for project number D2L120349, a sample cooler temperature of 0.5°C was recorded upon laboratory receipt for some of the project samples. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2, pg. 10 of

33]). The data reviewer, however, does not consider the data to have been impacted because none of the sample containers was frozen upon laboratory receipt.

2. In both project numbers included in this QA review, the laboratory analyzed several continuing calibration verification standards (CCVs) with concentrations of 200 µg/L. According to STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33), the concentration of the CCVs is to be 100 µg/L. In the data reviewer's opinion, there was no impact on the data review process due to this issue.
3. In both project numbers included in this QA review, the laboratory analyzed the initial calibration blanks (ICBs) directly before the ICVs. According to STL SOP No. DEN-LC-0010 (Section 10.7, pg. 14 of 33), the ICB is to be analyzed after the ICV. The ICBs should be analyzed after the ICVs in order to measure possible carryover. In addition, the analysis of the ICBs directly prior to the ICVs may act to clean the instrument prior to ICV analyses. As a result, ICV analysis conditions may not be completely reflective of the instrument conditions at the time of the actual sample analyses. The ICBs were analyzed directly after the highest initial calibration standards and, therefore, should have provided an indication of possible carryover. Positive results were not observed for the target compounds in the ICBs.

### Comments

1. The data packages were not paginated.
2. As noted in the Laboratory Case Narratives, sample cooler temperatures ranging from 1.8°C to 3.2°C were recorded upon laboratory receipt for the project samples in project number D2L110254 and sample cooler temperatures ranging from 2.4°C to 3.0°C were recorded upon laboratory receipt for several project samples in project number D2L120349. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2, pg. 10 of 33]). The data reviewer, however, does not consider the data to have been impacted because it is customary for the acceptable preservation temperature to be 4±2°C.
3. Samples BAR-G-30700N-INFLOW, BAR-G-30810N-INFLOW, BAR-G-72520H-INFLOW, and BAR-G-73160H-INFLOW in project number D2L110254 and samples BAR-G-72330H-INFLOW, BAR-G-73110H-INFLOW, BAR-G-72410H-INFLOW, BAR-G-72420H-INFLOW, and BAR-G-72420H-EFFLUENT in project number D2L120349 were initially analyzed undiluted, but the analyses exhibited low internal standard recoveries for the labeled RDX. These samples were subsequently reanalyzed at five-fold or 10-fold dilutions; the dilution analyses have been reported for the target compounds HMX and RDX, which are associated with the labeled RDX internal standard. The method detection limits (MDLs) and practical quantitation limits (PQLs) for HMX and RDX in these samples were raised to reflect the dilutions performed. All other target compounds were reported from the undiluted analyses of the samples.

4. In both project numbers included in this QA review, the reported positive results in the project samples were adjusted for the exact volume of sample extracted; however, the MDLs and PQLs in the project samples were not adjusted for the exact volume extracted. For the MDLs and PQLs, the laboratory used a standard dilution factor for samples based on an initial sample volume of 1000 mL and a final extract volume of 5 mL unless the amount extracted differed from 1000 mL by 20% or more. The amount extracted for the samples in project number D2L110254 ranged from 1028 mL to 1053 mL, and the amount extracted for the samples in project number D2L120349 ranged from 1020 mL to 1052 mL, which would impact the reported limits by 5% or less if the reported limits were adjusted for the exact volume extracted. The MDLs and PQLs reported on the data tables in Section 2 have not been adjusted for the exact sample volume due to the minimal impact on the reported values.
5. The last page of the quantitation report for the dilution analysis of sample BAR-G-30700N-INFLOW (file ex2211829) was not included in the data package provided for review for project number D2L110254. Upon Environmental Standards' request, the laboratory provided this page of data (included in Section 5).
6. According to a note on Chain-of-Custody (COC) Record #97711, a sample cooler temperature of 4.0°C was recorded upon laboratory receipt for the samples recorded on this COC Record. The Laboratory Case Narrative for project number D2L120349, however, did not report this temperature in the "Sample Arrival and Receipt" section.
7. According to the Laboratory Case Narrative and the associated Chain-of-Custody Records for project number D2L120349, samples BAR-G-30600N-INFLOW, BAR-G-31120BG-INFLOW, BAR-G-73300BC-INFLOW, and BAR-G-71500H-INFLOW were not collected. Nitroaromatics and nitroamines results are not available for these samples.
8. According to the Laboratory Case Narrative for project number D2L120349, samples BAR-G-29600N-INFLOW, BAR-G-29600N-INFLOWMS, and BAR-G-29600N-INFLOWMSD collected on 12/10/02 were not analyzed per the client's instructions. These samples were recollected on 12/13/02 and analyzed for nitroaromatics/nitroamines.
9. As noted in the Laboratory Case Narrative for project number D2L120349, one 1-liter amber bottle for sample BAR-G-29600N-INFLOWMSD arrived at the laboratory broken; however, sufficient sample volume remained for analysis.

#### Data Evaluation

With respect to data usability, the principal areas of concern are low MS/MSD recoveries and quantitation below the PQL. Based on a rigorous review of the data provided, the following organic data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require

corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

#### Organic Data Qualifiers

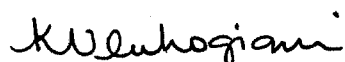
- The MDL and PQL for HMX in sample BAR-G-72700H-INFLOW in project number D2L110254 may be higher than reported, and the "not-detected" result has been flagged "UJ" on the data tables. Low recoveries (<71%) were observed for HMX in the associated MS/MSD analyses.
- Sample BAR-G-72330H-INFLOW was included in the data package provided for the nitroaromatics and nitroamines analysis in project number D2L120349 in this QA review. Sample BAR-G-72330H-INFLOW-DUP which is included in project number D2L120373 (from another QA review) is the field duplicate of sample BAR-G-72330H-INFLOW. Good precision was observed between the results for nitroaromatics and nitroamines in the field duplicate pair to the limited extent that positive results for the target compounds were not detected in the field duplicate samples.
- Based on standard project reporting requirements, the positive results reported with concentrations between the laboratory's associated MDLs and PQLs have been flagged "J" by the laboratory. Environmental Standards concurs that these positive results should be considered quantitative estimates and has also flagged the results "J" on the data tables.

A complete support documentation of this organic QA review is provided in Section 3 of this report.

B. Conclusions

Based on this QA review, a few nitroaromatics and nitroamines sample results were qualified due to low MS/MSD recoveries and quantitation below the PQL. In order to use any of the data, the data user should understand the qualifications and limitations as specified in this QA review. The Laboratory Case Narratives and Project Chain-of-Custody Records are presented in Section 4 of this report. The Project Correspondence is presented in Section 5 of this report.

Report prepared by:



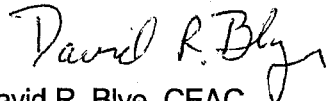
Konstadina Vlahogiani, M.S.  
Senior Quality Assurance Chemist III/  
Project Manager

Report reviewed by:



Eric T. Lahr  
Senior Quality Assurance Chemist I

Report reviewed and approved by:



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Date: 1-28-03

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**SECTION 2**

**TARGET ANALYTE SUMMARY**

## ORGANIC DATA QUALIFIERS

- ND The compound was not detected at or above the associated numerical value.
- U This compound should be considered "not detected" because it was detected in a blank at a similar level.
- J Quantitation is approximate due to limitations identified during the quality assurance review (data validation).
- R Unusable result; compound may or may not be present in this sample.
- UJ This compound was not detected, but the detection limit is probably higher due to a low bias identified during the quality assurance review.



LOCATION	BARKSDALE WORKS	
JOBNAME	RESIDENT WELLS 12/02	
WORKORDR	FEL02	FEL0G
SAMPLENO	BAR-G-73160H-INFLOW	BAR-G-30810N-INFLOW
DATEEMPL	09-DEC-02	09-DEC-02
TIMESMPL	1730	1830
SMPLTYPE	GROUND WATER	
SAMPLE	FS	
UNIT	UG/L	

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
2,4,6-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
1,3-DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
2,4,6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
1,3-DINITROTOLUENE	121142	8321	ND	0.026	0.12			0.071	0.026	0.12	J	J
1,4-DINITROTOLUENE	606202	8321	ND	0.022	0.12			1.4	0.022	0.12		
2-AMINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			0.061	0.036	0.12	J	J
1-NITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
2-NITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
2-AMINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			0.17	0.020	0.12		
3-NITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
1,2-DICHLOROBENZENE	2691410	8321	ND	0.20	0.60			ND	0.20	0.60		
1,4-DICHLOROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
1,2-DICHLOROPROPYLENE	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
1,1,1-TRICHLOROETHANE	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
1,1,2-TRICHLOROETHANE	121824	8321	ND	0.10	0.60			ND	0.10	0.60		
1,1,1-TRICHLOROETHYLENE	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION		
JOBNAME		
WORKORDR	FEL0K	FEL0N
SAMPLENO	BAR-G-30810N-EFFLUENT	BAR-G-72520H-INFLOW
DATESMPL	09-DEC-02	09-DEC-02
TIMESMPL	1825	1631
SMPLTYPE	GROUND WATER	GROUND WATER
SAMPLE	FS	FS
UNIT	UG/L	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			0.081	0.026	0.12	J	J
DINITROTOLUENE	606202	8321	ND	0.022	0.12			0.28	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			0.046	0.026	0.12	J	J
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.040	0.12			ND	0.20	0.60		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.020	0.12			ND	0.10	0.60		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR		FELOR					FEL0W					
SAMPLENO		BAR-G-72520H-EFFLUENT					BAR-G-73250H-INFLOW					
DATESMPL		09-DEC-02					09-DEC-02					
TIMESMPL		1625					1745					
SMPLTYPE		GROUND WATER					GROUND WATER					
SAMPLE		FS					FS					
UNIT		UG/L					UG/L					
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
X	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FELW7						FELW9					
SAMPLENO	BAR-G-72920H-INFLOW						BAR-G-73025BG-INFLOW					
DATESMPL	09-DEC-02						09-DEC-02					
TIMESMPL	1920						1530					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
K	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FELWX						FELX0					
SAMPLENO	BAR-G-73030BG-INFLOW						BAR-G-72910H-INFLOW					
DATESMPL	09-DEC-02						09-DEC-02					
TIMESMPL	1544						1905					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
K	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FELX4						FELX9					
SAMPLENO	BAR-G-30700N-INFLOW						BAR-G-30700N-EFFLUENT					
DATESMPL	09-DEC-02						09-DEC-02					
TIMESMPL	1458						1455					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	0.068	0.026	0.12	J	J	ND	0.026	0.12		
DINITROTOLUENE	606202	8321	1.3	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	0.035	0.020	0.12	J	J	ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.20	0.60			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.10	0.60			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FELXD						FELXN					
SAMPLENO	BAR-G-73080BG-INFLOW						BAR-G-72700H-INFLOW					
DATESMPL	09-DEC-02						09-DEC-02					
TIMESMPL	1850						1700					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FELXW						FEQF2					
SAMPLENO	BAR-G-72700H-EFFLUENT						BAR-G-73100BG-INFLOW					
DATESMPL	09-DEC-02						10-DEC-02					
TIMESMPL	1655						1840					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
5-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
K	2691410	8321	ND	0.040	0.12		UJ	ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		



LOCATION												
JOBNAME												
WORKORDR	FEQF3						FEQF6					
SAMPLENO	BAR-G-73110H-INFLOW						BAR-G-73110H-EFFLUENT					
DATESMPL	10-DEC-02						10-DEC-02					
TIMESMPL	1235						1230					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	0.54	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.20	0.60			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.10	0.60			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR		FEQF7					FEQF8					
SAMPLENO		BAR-G-72410H-INFLOW					BAR-G-72410H-EFFLUENT					
DATESMPL		10-DEC-02					10-DEC-02					
TIMESMPL		1700					1655					
SMPLTYPE		GROUND WATER					GROUND WATER					
SAMPLE		FS					FS					
UNIT		UG/L					UG/L					
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.20	0.60			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
TN	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.10	0.60			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FEQFD						FEQFK					
SAMPLENO	BAR-G-72330H-INFLOW						BAR-G-72330H-EFFLUENT					
DATESMPL	10-DEC-02						10-DEC-02					
TIMESMPL	1330						1325					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.20	0.60			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.10	0.60			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FEQFM						FEQFN					
SAMPLENO	BAR-G-CLUBHOUSE-INFLOW						BAR-G-CLUBHOUSE-EFFLUENT					
DATESMPL	10-DEC-02						10-DEC-02					
TIMESMPL	1350						1345					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FEQFX						FEQGE					
SAMPLENO	BAR-G-73150BJ-INFLOW						BAR-G-72420H-INFLOW					
DATESMPL	10-DEC-02						10-DEC-02					
TIMESMPL	1525						1645					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.040	0.12			ND	0.20	0.60		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.020	0.12			ND	0.10	0.60		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FEQ GK						FEV9E					
SAMPLENO	BAR-G-72420H-EFFLUENT						BAR-G-29600N-INFLOW					
DATESMPL	10-DEC-02						13-DEC-02					
TIMESMPL	1640						0945					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
5-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
X	2691410	8321	ND	0.20	0.60			ND	0.040	0.12		
ROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
ROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
N	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
K	121824	8321	ND	0.10	0.60			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FEV9M						FEV9T					
SAMPLENO	BAR-G-73120BG-INFLOW						BAR-G-73120BG-EFFLUENT					
DATESMPL	12-DEC-02						12-DEC-02					
TIMESMPL	1350						1345					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
2,4,6-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
1,3-DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
2,4,6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
1,3-DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
1,4-DINITROTOLUENE	606202	8321	0.12	0.022	0.12			ND	0.022	0.12		
2,4-DIAMINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
1,3-DINITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
1,4-DINITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
2,4-DIAMINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
1,3-DINITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
1,4-DINITROTOLUENE	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
1,2-DINITROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
1,2-DINITROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
1,4-DINITROBENZENE	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
1,3-DINITROBENZENE	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
1,4-DINITROBENZENE	479458	8321	ND	0.024	0.12			ND	0.024	0.12		



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**QUALITY ASSURANCE REVIEW OF THE  
AQUEOUS SAMPLES COLLECTED ON DECEMBER 10, 11, AND 12, 2002  
FOR THE DUPONT CORPORATE REMEDIATION GROUP  
12/02 GROUNDWATER SAMPLING PROJECT  
AT THE BARKSDALE, WISCONSIN FACILITY**

January 28, 2003

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## **Executive Summary**

An analytical quality assurance review was performed on data for the 40 aqueous samples (including quality control samples) collected in association with the DuPont Corporate Remediation Group 12/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The organic analyses were performed by an SW-846 method. Comprehensive Contract Laboratory Program (CLP)-like raw data packages were prepared by the laboratory and were reviewed by Environmental Standards.

The quality of the data is acceptable; however, the following qualifications were made:

- the results for HMX in two samples and for 2,4,6-trinitrotoluene in one sample were qualified as estimated due to low recoveries in the matrix spike and/or matrix spike duplicate analyses; and
- based on standard project reporting requirements, the positive nitroaromatics and nitroamines results reported with concentrations between the laboratory's associated method detection limits and practical quantitation limits have been flagged "J".

Any reporting errors identified during the quality assurance review were corrected by the data reviewer or the laboratory. Amended data package pages provided by the laboratory have been included in the Project Correspondence section of the quality assurance review.

## **Introduction**

This quality assurance (QA) review is based upon a rigorous examination of data generated from the 40 aqueous samples (including quality control [QC] samples) that were collected on December 10, 11, and 12, 2002, as part of the DuPont Corporate Remediation Group 12/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The samples that have undergone a QA review are listed on Table 1. Table 1 also presents the field sample number, laboratory sample number, STL project number, collection date, and parameter analyzed and reviewed for each sample.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (US EPA, 2/94).

The reported analytical results are presented on the data tables included in Section 2, "Target Analyte Summary." These data tables have been generated from the Corporate Environmental Database (CED) and include all final data validation qualifiers and results. Data were examined to determine the usability of the analytical results and compliance relative to requirements specified by "Test Methods for Evaluating Solid Waste" (SW-846, Third Revision, 1986, and updates as applicable). In addition, the deliverables prepared according to a Contract Laboratory Program-like data package were evaluated. Details of this QA review are presented in Section 1 of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

TABLE 1

## SUMMARY OF GROUNDWATER SAMPLE DATA REVIEWED

## DUPONT BARKSDALE, WISCONSIN FACILITY

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	STL Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-73280H-INFLOW	FEQK0	D2L120373	12/10/02	E
BAR-G-73200H-INFLOW	FEQK2	D2L120373	12/10/02	E
BAR-G-72860H-INFLOW	FEQK4	D2L120373	12/10/02	E
BAR-G-72730H-INFLOW	FEQK5	D2L120373	12/10/02	E
BAR-G-30300N-INFLOW	FEQK6	D2L120373	12/10/02	E
BAR-G-30300N-INFLOW-DUP (Field Duplicate of BAR-G-30300N-INFLOW)	FEQK8	D2L120373	12/10/02	E
BAR-G-30380N-INFLOW	FEQK9	D2L120373	12/10/02	E
BAR-G-30380N-INFLOWMS (Matrix Spike)	FEQK9MS	D2L120373	12/10/02	E
BAR-G-30380N-INFLOWMSD (Matrix Spike Duplicate)	FEQK9MSD	D2L120373	12/10/02	E
BAR-G-72370H-INFLOW	FEQLE	D2L120373	12/10/02	E
BAR-G-72370H-EFFLUENT	FEQLH	D2L120373	12/10/02	E
BAR-G-30490N-INFLOW	FEQLL	D2L120373	12/10/02	E
BAR-G-72330H-INFLOW-DUP (Field Duplicate of BAR-G-72330-INFLOW)	FEQLQ	D2L120373	12/10/02	E
BAR-G-73095BG-INFLOW	FEQLT	D2L120373	12/10/02	E
BAR-G-73500H-INFLOW	FEQL0	D2L120373	12/10/02	E
BAR-G-73110BG-INFLOW	FEQL1	D2L120373	12/10/02	E
BAR-G-73110BG-EFFLUENT	FEQL4	D2L120373	12/10/02	E
BAR-G-72470H-INFLOW	FEQL6	D2L120373	12/10/02	E
BAR-G-72470H-EFFLUENT	FEQL8	D2L120373	12/10/02	E

TABLE 1 (Cont.)

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	STL Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-31345S-INFLOW	FEQL9	D2L120373	12/10/02	E
BAR-G-72450H-INFLOW	FEQMC	D2L120373	12/10/02	E
BAR-G-72450H-EFFLUENT	FEQME	D2L120373	12/10/02	E
BAR-G-71250H-INFLOW	FET36	D2L130389	12/11/02	E
BAR-G-71210H-INFLOW	FET49	D2L130389	12/11/02	E
BAR-G-71205H-INFLOW	FET5L	D2L130389	12/11/02	E
BAR-G-72790H-INFLOW	FET5P	D2L130389	12/11/02	E
BAR-G-71715O-INFLOW	FET54	D2L130389	12/11/02	E
BAR-G-29250E-INFLOW	FET55	D2L130389	12/11/02	E
BAR-G-71115O-INFLOW	FET56	D2L130389	12/11/02	E
BAR-G-29440E-INFLOW	FET57	D2L130389	12/11/02	E
BAR-G-29310E-INFLOW	FET58	D2L130389	12/11/02	E
BAR-G-29745E-INFLOW	FET6C	D2L130389	12/11/02	E
BAR-G-29380E-INFLOW	FET6D	D2L130389	12/11/02	E
BAR-G-72040H-INFLOW	FET6G	D2L130389	12/12/02	E
BAR-G-72040H-INFLOWMS (Matrix Spike)	FET6GMS	D2L130389	12/12/02	E
BAR-G-72040H-INFLOWMSD (Matrix Spike Duplicate)	FET6GMSD	D2L130389	12/12/02	E
BAR-G-72040H-EFFLUENT	FET6M	D2L130389	12/12/02	E
BAR-G-73040BG-INFLOW	FET6P	D2L130389	12/12/02	E
BAR-G-71075H-INFLOW	FET65	D2L130389	12/12/02	E
BAR-G-71075H-INFLOW-DUP (Field Duplicate of BAR-G-71075H-INFLOW)	FET66	D2L130389	12/12/02	E

NOTE:

E - Nitroaromatics and Nitroamines by SW-846 Method 8321A (Modified per STL SOP No. DEN-LC-0010, Revision No. 3) (40 analyses).

## Section 1 Quality Assurance Review

### A. Organic Data

The organic analyses of 40 aqueous samples (including QC samples) collected as part of the DuPont Corporate Remediation Group (DuPont) 12/02 Groundwater Sampling Project at the Barksdale, Wisconsin, Facility on December 10, 11, and 12, 2002, were performed by Severn Trent Laboratories, Inc. (STL) in Denver, Colorado. All samples were analyzed for nitroaromatics and nitroamines according to SW-846 Method 8321A, as specified in "Test Methods for Evaluating Solid Waste" (SW-846, Third Edition, Final Update II, September, 1994) and modified as specified in STL proprietary Standard Operating Procedure (SOP) No. DEN-LC-0010 (Revision No. 3). This modified method uses liquid chromatography with a thermospray interfaced to a mass spectrometer (LC/TSP/MS). These analyses are identified on Table 1. The data were presented in two Contract Laboratory Program (CLP)-like data packages.

The findings offered in this report are based upon a rigorous review of the following:

- sample holding times
- blank analysis results
- surrogate recoveries
- matrix spike (MS) and MS duplicate (MSD) recoveries and precision
- quantitation of results
- field duplicate precision
- sample condition upon laboratory receipt
- initial and continuing calibrations
- analytical sequence
- laboratory control sample (LCS) recoveries
- qualitative identification

The analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

### Data Package Deliverables

Overall, the organic data quality is good. The following analytical criteria and reporting requirements were not met for the original data packages received. Reporting errors identified during the quality assurance review were corrected by the data reviewer or the laboratory. Amended data package pages provided by the laboratory have been included in the Project Correspondence (Section 5). The following items do not affect data usability. Usability is addressed in the Data Evaluation section.

### Noncorrectable Deficiencies

1. In both project numbers included in this QA review, the laboratory analyzed several continuing calibration verification standards (CCVs) with concentrations of 200 µg/L. According to STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33), the concentration

of the CCVs is to be "100 µg/L." In the data reviewer's opinion, there was no impact on the data review process due to this issue.

2. The percent differences (%Ds) for tetryl in the initial calibration verification standards (ICVs) analyzed on 12/17/02 and 12/18/02 in project number D2L120373 and in the ICV analyzed in project number D2L130389 were greater than the 30% criterion specified for valid ICVs in STL SOP No. DEN-LC-0010 (Section 10.5, pg. 14 of 33). There was adequate instrument sensitivity to achieve the method detection limit (MDL) and practical quantitation limit (PQL) despite the noncompliant ICV %Ds because the %Ds were in the direction of sensitivity increase. Positive results were not observed for tetryl in the associated samples; therefore, qualification of data was not warranted due to this issue.
3. In both project numbers included in this QA review, the laboratory analyzed the initial calibration blanks (ICBs) directly before the ICVs. According to STL SOP No. DEN-LC-0010 (Section 10.7, pg. 14 of 33), the ICB is to be analyzed after the ICV. The ICBs should be analyzed after the ICVs in order to measure possible carryover. In addition, the analysis of ICBs directly prior to the ICVs may act to clean the instrument before ICV analyses. As a result, the ICVs analysis conditions may not be completely reflective of the instrument conditions at the time of the actual sample analyses. The ICBs were analyzed directly after the highest initial calibration standards and, therefore, should have provided an indication of possible carryover. Positive results were not observed for the target compounds in the ICBs.
4. The %Ds for PETN and/or nitroglycerine in two continuing calibration verification standards (CCVs) in project number D2L120373 were greater than the 30% criterion specified in STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33). There was adequate instrument sensitivity to achieve the MDLs and PQLs despite the noncompliant CCV %Ds because the %Ds were in the direction of sensitivity increase. Positive results were not observed for PETN or nitroglycerine in the associated samples in project number D2L120373; therefore, qualification of data was not warranted due to this issue.
5. The %D for PETN in one CCV in project number D2L130389 was lower than the 30% criterion specified in STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33). Qualification of data was not warranted due to this issue because this CCV was associated only with the reanalysis of the LCS sample.
6. The nitroaromatics and nitroamines analysis request for project number D2L120373 sample BAR-G-31345S-INFLOW was not recorded on the Chain-of-Custody Records.
7. The date project number D2L130389 sample BAR-G-73040BG-INFLOW was received at the laboratory was not recorded on the Chain-of-Custody Records.

## Comments

1. The data packages were not paginated.
2. As noted in the Laboratory Case Narratives, sample cooler temperatures of 1.8°C, 1.9°C, 2.4°C, and 4.7°C were recorded upon laboratory receipt for several project samples in project number D2L120373 and sample cooler temperatures of 2.7°C, 2.9°C, 3.2°C, and 5.0°C were recorded upon laboratory receipt for all project samples in project number D2L130389. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2, pg. 10 of 33]). The data reviewer, however, does not consider the data to have been impacted because it is customary for the acceptable preservation temperature to be 4±2°C.
3. In both project numbers included in this QA review, the reported positive results in the project samples were adjusted for the exact volume of sample extracted; however, the MDLs and PQLs in the project samples were not adjusted for the exact volume extracted. For the MDLs and PQLs, the laboratory used a standard dilution factor for samples based on an initial sample volume of 1000 mL and a final extract volume of 5 mL unless the amount extracted differed from 1000 mL by 20% or more. The amount extracted for the samples in project number D2L120373 ranged from 1004 mL to 1053 mL, and the amount extracted for the samples in project number D2L130389 ranged from 1022 mL to 1052 mL, which would impact the reported limits by 5% or less if the reported limits were to be adjusted for the exact volume extracted. The MDLs and PQLs reported on the data tables in Section 2 have not been adjusted for the exact sample volume due to the minimal impact on the reported values.
4. Sample BAR-G-30380N-INFLOW in project number D2L120373 and samples BAR-G-29250E-INFLOW and BAR-G-29440E-INFLOW in project number D2L130389 were initially analyzed undiluted, but the analyses exhibited low internal standard recoveries for the labeled RDX. These samples were subsequently reanalyzed at a five-fold dilution; the dilution analyses have been reported for the target compounds HMX and RDX, which are associated with the labeled RDX internal standard. The MDLs and PQLs for HMX and RDX in these samples were raised to reflect the dilution performed. All other target compounds were reported from the undiluted analyses of the samples.
5. Sample BAR-G-72040H-INFLOW in project number D2L130389 was initially analyzed undiluted, but the analysis exhibited a high concentration (above the calibration range) for 2,6-dinitrotoluene. This sample was subsequently reanalyzed at a five-fold dilution; the dilution analysis has been reported for 2,6-dinitrotoluene. The MDL and PQL for 2,6-dinitrotoluene in this sample were raised to reflect the dilution performed. All other target compounds were reported from the undiluted analysis of the sample.
6. As noted in the Laboratory Case Narrative for project number D2L130389, the initial analysis of the LCS sample exhibited a high recovery (above the QC limits) for tetryl. The LCS sample was subsequently reanalyzed with acceptable results for all analytes. The reanalysis of the LCS sample has been reported for all target compounds.



7. The last page of the quantitation report for sample BAR-G-73500H-INFLOW (file ex1211816) was not included in the data package provided for review for project number D2L120373. Upon Environmental Standards' request, the laboratory provided this page of data (included in Section 5).
8. The last page of the quantitation report for one CCV (file ex1211913) and the last two pages of the quantitation report for the reanalysis of the LCS (file ex1211912) were not included in the data package provided for review for project number D2L130389. Upon Environmental Standards' request, the laboratory provided these pages of data (included in Section 5).
9. According to the Laboratory Case Narrative and the associated Chain-of-Custody Records for project number D2L130389, samples BAR-G-71430H-INFLOW, BAR-G-29275E-INFLOW, and BAR-G-71230H-INFLOW were not collected; nitroaromatics and nitroamines results are not available for these samples.

#### Data Evaluation

With respect to data usability, the principal areas of concern are low MS and/or MSD recoveries and quantitation below the PQL. Based on a rigorous review of the data provided, the following organic data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

#### Organic Data Qualifiers

- The MDLs and PQLs for HMX and 2,4,6-trinitrotoluene in sample BAR-G-30380N-INFLOW in project number D2L120373 and for HMX in sample BAR-G-72040H-INFLOW in project number D2L130389 may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. Low recoveries (<71%) were observed for HMX and/or 2,4,6-trinitrotoluene in the associated MS and/or MSD analyses.
- Sample BAR-G-30300N-INFLOW and its field duplicate, sample BAR-G-30300N-INFLOW-DUP, were included in the data package provided for the nitroaromatics and nitroamines analysis in project number D2L120373. Good precision was observed between the results for nitroaromatics and nitroamines in the field duplicate pair to the limited extent that positive results for the target compounds were not detected in the field duplicate samples.

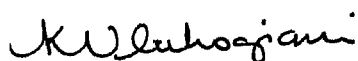
- Sample BAR-G-72330H-INFLOW was included in the data package provided for the nitroaromatics and nitroamines analysis in project number D2L120349 (from another QA review). Sample BAR-G-72330H-INFLOW-DUP, which is included in project number D2L120373 in this QA review, is the field duplicate of sample BAR-G-72330H-INFLOW. Good precision was observed between the results for nitroaromatics and nitroamines in the field duplicate pair to the limited extent that positive results for the target compounds were not detected in the field duplicate samples.
  
- Based on standard project reporting requirements, the positive results reported with concentrations between the laboratory's associated MDLs and PQLs have been flagged "J" by the laboratory. Environmental Standards concurs that these positive results should be considered quantitative estimates and has also flagged the results "J" on the data tables.

A complete support documentation of this organic QA review is provided in Section 3 of this report.

B. Conclusions

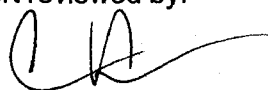
Based on this QA review, a few nitroaromatics and nitroamines sample results were qualified due to low MS and/or MSD recoveries and quantitation below the PQL. In order to use any of the data, the data user should understand the qualifications and limitations as specified in this QA review. The Laboratory Case Narratives and Project Chain-of-Custody Records are presented in Section 4 of this report. The Project Correspondence is presented in Section 5 of this report.

Report prepared by:



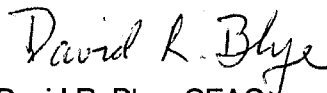
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Senior Quality Assurance Chemist III/  
Project Manager

Report reviewed by:



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Senior Quality Assurance Chemist I

Report reviewed and approved by:



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Date: 1-28-03

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**SECTION 2**

**TARGET ANALYTE SUMMARY**

## ORGANIC DATA QUALIFIERS

- ND The compound was not detected at or above the associated numerical value.
- U This compound should be considered "not detected" because it was detected in a blank at a similar level.
- J Quantitation is approximate due to limitations identified during the quality assurance review (data validation).
- R Unusable result; compound may or may not be present in this sample.
- UJ This compound was not detected, but the detection limit is probably higher due to a low bias identified during the quality assurance review.

LOCATION	BARKSDALE WORKS	
JOBNAME	RESIDENT WELLS 12/02	
WORKORDR	FEQK0	FEQK2
SAMPLENO	BAR-G-73280H-INFLOW	BAR-G-73200H-INFLOW
DATESMPL	10-DEC-02	10-DEC-02
TIMESMPL	1545	1555
SMPLTYPE	GROUND WATER	
SAMPLE	FS	
UNIT	UG/L	

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
INO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
INO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
OGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
I	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQK4
SAMPLENO	BAR-G-72860H-INFLOW
DATESMPL	10-DEC-02
TIMESMPL	1605
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQK6
SAMPLENO	BAR-G-30300N-INFLOW
DATESMPL	10-DEC-02
TIMESMPL	1510
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		



LOCATION	
JOBNAME	
WORKORDR	FEQK9
SAMPLENO	BAR-G-30380N-INFLOW
DATESMPL	10-DEC-02
TIMESMPL	1500
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12		UJ	ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.20	0.60		UJ	ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.10	0.60			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION		
JOBNAME		
WORKORDR	FEQL1	FEQL4
SAMPLENO	BAR-G-73110BG-INFLOW	BAR-G-73110BG-EFFLUENT
DATESMPL	10-DEC-02	10-DEC-02
TIMESMPL	1900	1855
SMPLTYPE	GROUND WATER	GROUND WATER
SAMPLE	FS	FS
UNIT	UG/L	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	0.033	0.026	0.12	J	J	ND	0.026	0.12		
NITROTOLUENE	606202	8321	0.63	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
/L	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQL6
SAMPLENO	BAR-G-72470H-INFLOW
DATESMPL	10-DEC-02
TIMESMPL	1300
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
OBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQL9
SAMPLENO	BAR-G-31345S-INFLOW
DATESMPL	10-DEC-02
TIMESMPL	1200
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQLH
SAMPLENO	BAR-G-72370H-EFFLUENT
DATE SMPL	10-DEC-02
TIMESMPL	1710
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQLQ
SAMPLENO	BAR-G-72330H-INFLOW-DUP
DATEMPL	10-DEC-02
TIMESMPL	1330
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FEQMC FEQME
SAMPLENO	BAR-G-72450H-INFLOW BAR-G-72450H-EFFLUENT
DATESMPL	10-DEC-02 10-DEC-02
TIMESMPL	1630 1625
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET36 FET49
SAMPLENO	BAR-G-71250H-INFLOW BAR-G-71210H-INFLOW
DATESMPL	11-DEC-02 11-DEC-02
TIMESMPL	1608 1625
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		



LOCATION	
JOBNAME	
WORKORDR	FET54 FET55
SAMPLENO	BAR-G-717150-INFLOW BAR-G-29250E-INFLOW
DATESMPL	11-DEC-02 11-DEC-02
TIMESMPL	1745 1720
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
TRINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
TRINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
TRINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
4-NITRO-2,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
4-NITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
4-NITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
4-NITRO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
4-NITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.20	0.60		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.10	0.60		
XYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET56 FET57
SAMPLENO	BAR-G-711150-INFLOW BAR-G-29440E-INFLOW
DATESMPL	11-DEC-02 11-DEC-02
TIMESMPL	1730 1655
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
INO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
INO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.20	0.60		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.10	0.60		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET58 FET5L
SAMPLENO	BAR-G-29310E-INFLOW BAR-G-71205H-INFLOW
DATESMPL	11-DEC-02 11-DEC-02
TIMESMPL	1715 1618
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET5P FET65
SAMPLENO	BAR-G-72790H-INFLOW BAR-G-71075H-INFLOW
DATESMPL	11-DEC-02 12-DEC-02
TIMESMPL	1810 1205
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
DINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
DINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET66 FET6C
SAMPLENO	BAR-G-71075H-INFLOW-DUP BAR-G-29745E-INFLOW
DATESMPL	12-DEC-02 11-DEC-02
TIMESMPL	1205 1640
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
INO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
INO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET6D FET6G
SAMPLENO	BAR-G-29380E-INFLOW BAR-G-72040H-INFLOW
DATESMPL	11-DEC-02 12-DEC-02
TIMESMPL	1705 0825
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			0.099	0.026	0.12	J	J
DINITROTOLUENE	606202	8321	ND	0.022	0.12			1.8	0.11	0.60		
MINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			0.54	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
MINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			0.47	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		UJ
OBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
OGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
V	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET6M FET6P
SAMPLENO	BAR-G-72040H-EFFLUENT BAR-G-73040BG-INFLOW
DATESMPL	12-DEC-02 12-DEC-02
TIMESMPL	0820 1105
SMPLTYPE	GROUND WATER GROUND WATER
SAMPLE	FS FS
UNIT	UG/L UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
INO-4,β-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
INO-2,β-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
O BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
O GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		



*Setting the Standards for Innovative Environmental Solutions*

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**QUALITY ASSURANCE REVIEW OF THE  
AQUEOUS SAMPLES COLLECTED ON DECEMBER 11 AND 12, 2002  
FOR THE DUPONT CORPORATE REMEDIATION GROUP  
12/02 GROUNDWATER SAMPLING PROJECT  
AT THE BARKSDALE, WISCONSIN FACILITY**

January 28, 2003

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## **Executive Summary**

An analytical quality assurance review was performed on data for the 17 aqueous samples (including quality control samples) collected in association with the DuPont Corporate Remediation Group 12/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The organic analyses were performed by an SW-846 method. A comprehensive Contract Laboratory Program (CLP)-like raw data package was prepared by the laboratory and was reviewed by Environmental Standards.

The quality of the data is acceptable; qualification of data was not warranted. Reporting errors were not identified during the quality assurance review.

## **Introduction**

This quality assurance (QA) review is based upon a rigorous examination of data generated from the 17 aqueous samples (including quality control [QC] samples) that were collected on December 11 and 12, 2002, as part of the DuPont Corporate Remediation Group 12/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The samples that have undergone a QA review are listed on Table 1. Table 1 also presents the field sample number, laboratory sample number, STL project number, collection date, and parameter analyzed and reviewed for each sample.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (US EPA, 2/94).

The reported analytical results are presented on the data tables included in Section 2, "Target Analyte Summary." These data tables have been generated from the Corporate Environmental Database (CED) and include all final data validation qualifiers and results. Data were examined to determine the usability of the analytical results and compliance relative to requirements specified by "Test Methods for Evaluating Solid Waste" (SW-846, Third Revision, 1986, and updates as applicable). In addition, the deliverables prepared according to a Contract Laboratory Program-like data package were evaluated. Details of this QA review are presented in Section 1 of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

TABLE 1

SUMMARY OF GROUNDWATER SAMPLE DATA REVIEWED

DUPONT BARKSDALE, WISCONSIN FACILITY

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	STL Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-30200M-INFLOW-DUP (Field Duplicate of BAR-G-30200M-INFLOW)	FET75	- D2L130400	12/11/02	E
BAR-G-30190M-INFLOW	FET76	D2L130400	12/11/02	E
BAR-G-30095M-INFLOW	FET77	D2L130400	12/11/02	E
BAR-G-30095M-INFLOWMS (Matrix Spike)	FET77MS	D2L130400	12/11/02	E
BAR-G-30095M-INFLOWMSD (Matrix Spike Duplicate)	FET77MSD	D2L130400	12/11/02	E
BAR-G-30175M-INFLOW	FET79	D2L130400	12/11/02	E
BAR-G-30200M-INFLOW	FET8A	D2L130400	12/11/02	E
BAR-G-29700E-INFLOW	FET8D	D2L130400	12/11/02	E
BAR-G-71125O-INFLOW	FET8F	D2L130400	12/11/02	E
BAR-G-29025E-INFLOW	FET8J	D2L130400	12/11/02	E
BAR-G-71150O-INFLOW	FET8K	D2L130400	12/11/02	E
BAR-G-71485O-INFLOW	FET8L	D2L130400	12/11/02	E
BAR-G-71015O-INFLOW	FET8M	D2L130400	12/11/02	E
BAR-G-71450H-INFLOW	FET8N	D2L130400	12/11/02	E
BAR-G-71270H-INFLOW	FET8P	D2L130400	12/11/02	E
BAR-G-31340S-INFLOW	FET8R	D2L130400	12/12/02	E
BAR-G-71470H-INFLOW	FET8W	D2L130400	12/11/02	E

NOTE:

E - Nitroaromatics and Nitroamines by SW-846 Method 8321A (Modified per STL SOP No. DEN-LC-0010, Revision No. 3) (17 analyses).

## Section 1 Quality Assurance Review

### A. Organic Data

The organic analyses of 17 aqueous samples (including QC samples) collected as part of the DuPont Corporate Remediation Group (DuPont) 12/02 Groundwater Sampling Project at the Barksdale, Wisconsin, Facility on December 11 and 12, 2002, were performed by Severn Trent Laboratories, Inc. (STL) in Denver, Colorado. All samples were analyzed for nitroaromatics and nitroamines according to SW-846 Method 8321A, as specified in "Test Methods for Evaluating Solid Waste" (SW-846, Third Edition, Final Update II, September, 1994) and modified as specified in STL proprietary Standard Operating Procedure (SOP) No. DEN-LC-0010 (Revision No. 3). This modified method uses liquid chromatography with a thermospray interfaced to a mass spectrometer (LC/TSP/MS). These analyses are identified on Table 1. The data were presented in one Contract Laboratory Program (CLP)-like data package.

The findings offered in this report are based upon a rigorous review of the following:

- sample holding times
- blank analysis results
- surrogate recoveries
- matrix spike (MS) and MS duplicate (MSD) recoveries and precision
- quantitation of results
- field duplicate precision
- sample condition upon laboratory receipt
- initial and continuing calibrations
- analytical sequence
- laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries and precision
- qualitative identification

The analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

### Data Package Deliverables

Overall, the organic data quality is good. The following analytical criteria and reporting requirements were not met for the original data package received. Reporting errors were not identified during the quality assurance review. The following items do not affect data usability. Usability is addressed in the Data Evaluation section.

### Noncorrectable Deficiencies

1. As noted in the Laboratory Case Narrative, a sample cooler temperature of 1.2°C was recorded upon laboratory receipt for some of the project samples. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2, pg. 10 of 33]). The data reviewer does

not consider the data to have been impacted because none of the project samples was frozen and none of the sample containers was broken upon laboratory receipt.

2. The laboratory analyzed several continuing calibration verification (CCV) standards at a concentration of 200 µg/L. According to STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33), the concentration of the CCVs must be "100 µg/L." In the data reviewer's opinion, there was no impact on the data review process due to this issue.
3. The percent difference (%D) for tetryl in the initial calibration verification (ICV) standard analyzed on 12/20/02 (file: ex12211809) was greater than the 30% criterion specified for valid ICVs in STL SOP No. DEN-LC-0010 (Section 10.5, pg. 14 of 33). There was adequate instrument sensitivity to achieve the method detection limit (MDL) and practical quantitation limit (PQL) despite the noncompliant ICV %D because the %D was in the direction of sensitivity increase. Positive results were not observed for tetryl in the associated samples; therefore, qualification of data was not warranted due to this issue.
4. The laboratory analyzed the initial calibration blanks (ICBs) directly before the ICV standards. According to STL SOP No. DEN-LC-0010 (Section 10.7, pg. 14 of 33), the ICB must be analyzed after the ICV. The ICBs should be analyzed after the ICVs in order to measure possible carryover. In addition, the analysis of the ICBs directly prior to the ICVs may act to clean the instrument prior to ICV analyses. As a result, ICV analysis conditions may not be completely reflective of the instrument conditions at the time of the actual sample analyses. The ICBs were analyzed directly after the highest initial calibration standards and, therefore, should have provided an indication of possible carryover. Positive results were not observed for the target compounds in the ICBs; therefore, qualification of data was not warranted due to this issue.
5. The laboratory receipt date of the project samples was not recorded on the Chain-of-Custody Records.

### Comments

1. The data package was not paginated.
2. As noted in the Laboratory Case Narrative, sample cooler temperatures ranging from 2.4°C to 3.8°C were recorded upon laboratory receipt for several project samples. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2, pg. 10 of 33]). The data reviewer, however, does not consider the data to have been impacted because it is customary for the acceptable preservation temperature to be 4±2°C.
3. The reported positive results in the QC samples were adjusted for the exact volume of sample extracted. The MDLs and PQLs in the project samples were not adjusted for the exact volume extracted. For the MDLs and PQLs, the laboratory used a standard dilution factor for samples based on an initial sample volume of 1000 mL and a final extract

volume of 5 mL unless the amount extracted differed from 1000 mL by 20% or more. The amount extracted for the samples ranged from 1012 mL to 1054 mL, which would impact the reported MDLs and PQLs by 5% or less if the reported MDLs and PQLs were adjusted for the exact volume extracted. The MDLs and PQLs reported on the data tables in Section 2 have not been adjusted for the exact sample volume due to the minimal impact on the reported values.

### Data Evaluation

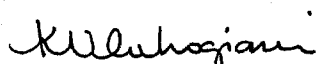
With respect to data usability, qualification of the data was not warranted. A review of the holding times determined that all extractions and analyses were performed within holding times. The condition of sample upon laboratory receipt was acceptable. Blank analysis results revealed no contamination problems. Linearity for all target compounds was demonstrated in the initial calibration by acceptable coefficients of determination. Instrument stability for all target compounds was demonstrated by acceptable continuing calibration recoveries (or continuing calibration recoveries that did not require qualification). Precision and accuracy were demonstrated by acceptable surrogate recoveries and MS/MSD and LCS/LCSD recoveries and relative percent differences (or LCS/LCSD recoveries that did not require qualification). One field duplicate pair (sample BAR-G-30200M-INFLOW and its field duplicate, sample BAR-G-30200M-INFLOW-DUP) was included in the data package provided for the nitroaromatics and nitroamines analyses. Good precision was observed between the results for nitroaromatics and nitroamines in the field duplicate pair to the limited extent that positive results for nitroaromatics and nitroamines were not detected in the field duplicate samples.

A complete support documentation of this organic QA review is provided in Section 3 of this report.

B. Conclusions

Based on this QA review, qualification of the nitroaromatics and nitroamines sample results was not warranted. The Laboratory Case Narrative and Project Chain-of-Custody Records are presented in Section 4 of this report.

Report prepared by:



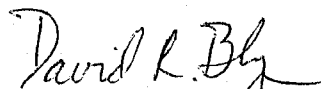
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Date: 1-28-03

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**SECTION 2**

**TARGET ANALYTE SUMMARY**

## ORGANIC DATA QUALIFIERS

- ND The compound was not detected at or above the associated numerical value.
- U This compound should be considered "not detected" because it was detected in a blank at a similar level.
- J Quantitation is approximate due to limitations identified during the quality assurance review (data validation).
- R Unusable result; compound may or may not be present in this sample.
- UJ This compound was not detected, but the detection limit is probably higher due to a low bias identified during the quality assurance review.

LOCATION	BARKSDALE WORKS	
JOBNAME	RESIDENT WELLS 12/02	
WORKORDR	FET75	FET76
SAMPLENO	BAR-G-30200M-INFLOW-DUP	BAR-G-30190M-INFLOW
DATESMPL	11-DEC-02	11-DEC-02
TIMESMPL	1530	1520
SMPLTYPE	GROUND WATER	
SAMPLE	FS	
UNIT	UG/L	

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
2,4,6-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
1,3-DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
2,4,6-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
1,3-DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
1,4-DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
3,4-DIAMINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
2,4-DINITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
1,3-DINITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
3,4-DIAMINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
1,4-DINITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
2,4-DINITROTOLUENE	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
1,2-DINITROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
1,3-DINITROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
1,2-DINITROBENZENE	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
1,3-DINITROBENZENE	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
1,2-DINITROBENZENE	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FET77						FET79					
SAMPLENO	BAR-G-30095M-INFLOW						BAR-G-30175M-INFLOW					
DATESMPL	11-DEC-02						11-DEC-02					
TIMESMPL	1540						1550					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR	FET8A						FET8D					
SAMPLENO	BAR-G-30200M-INFLOW						BAR-G-29700E-INFLOW					
DATESMPL	11-DEC-02						11-DEC-02					
TIMESMPL	1530						1648					
SMPLTYPE	GROUND WATER						GROUND WATER					
SAMPLE	FS						FS					
UNIT	UG/L						UG/L					
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION												
JOBNAME												
WORKORDR		FET8F						FET8J				
SAMPLENO		BAR-G-711250-INFLOW						BAR-G-29025E-INFLOW				
DATESMPL		11-DEC-02						11-DEC-02				
TIMESMPL		1340						1400				
SMPLTYPE		GROUND WATER						GROUND WATER				
SAMPLE		FS						FS				
UNIT		UG/L						UG/L				
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
2,4,6-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
1,3-DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
2,4-DINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
1,3-DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
2,6-DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
1,4-DINITRO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
2,4-DINITROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
1,3-DINITROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
1,4-DINITRO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
2,4-DINITROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
2,6-DINITROTOLUENE	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
1,2-DINITROBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
1,3-DINITROGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
1,2-DINITROBENZENE	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
1,3-DINITROBENZENE	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
1,4-DINITROBENZENE	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION											
JOBNAME											
WORKORDR	FET8K						FET8L				
SAMPLENO	BAR-G-711500-INFLOW						BAR-G-714850-INFLOW				
DATESMPL	11-DEC-02						11-DEC-02				
TIMESMPL	1330						1320				
SMPLTYPE	GROUND WATER						GROUND WATER				
SAMPLE	FS						FS				
UNIT	UG/L						UG/L				

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
DINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
DINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION											
JOBNAME											
WORKORDR	FET8M						FET8N				
SAMPLENO	BAR-G-710150-INFLOW						BAR-G-71450H-INFLOW				
DATESMPL	11-DEC-02						11-DEC-02				
TIMESMPL	1350						1510				
SMPLTYPE	GROUND WATER						GROUND WATER				
SAMPLE	FS						FS				
UNIT	UG/L						UG/L				

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
DINO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
DINO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
BENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
GLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		



LOCATION												
JOBNAME												
WORKORDR		FET8P						FET8R				
SAMPLENO		BAR-G-71270H-INFLOW						BAR-G-31340S-INFLOW				
DATESMPL		11-DEC-02						12-DEC-02				
TIMESMPL		1600						0855				
SMPLTYPE		GROUND WATER						GROUND WATER				
SAMPLE		FS						FS				
UNIT		UG/L						UG/L				
ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW	RESULT	MDL	PQL	QUAL_EPA	REVIEW
-TRINITROBENZENE	99354	8321	ND	0.025	0.12			ND	0.025	0.12		
DINITROBENZENE	99650	8321	ND	0.023	0.12			ND	0.023	0.12		
-TRINITROTOLUENE	118967	8321	ND	0.021	0.12			ND	0.021	0.12		
DINITROTOLUENE	121142	8321	ND	0.026	0.12			ND	0.026	0.12		
DINITROTOLUENE	606202	8321	ND	0.022	0.12			ND	0.022	0.12		
INO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12			ND	0.036	0.12		
TROTOLUENE	88722	8321	ND	0.026	0.12			ND	0.026	0.12		
TROTOLUENE	99081	8321	ND	0.027	0.12			ND	0.027	0.12		
INO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12			ND	0.020	0.12		
TROTOLUENE	99990	8321	ND	0.025	0.12			ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12			ND	0.040	0.12		
OBENZENE	98953	8321	ND	0.025	0.12			ND	0.025	0.12		
OGLYCERIN	55630	8321	ND	0.030	0.12			ND	0.030	0.12		
	78115	8321	ND	0.051	0.12			ND	0.051	0.12		
	121824	8321	ND	0.020	0.12			ND	0.020	0.12		
RYL	479458	8321	ND	0.024	0.12			ND	0.024	0.12		

LOCATION	
JOBNAME	
WORKORDR	FET8W
SAMPLENO	BAR-G-71470H-INFLOW
DATESMPL	11-DEC-02
TIMESMPL	1500
SMPLTYPE	GROUND WATER
SAMPLE	FS
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW
1,3,5-TRINITROBENZENE	99354	8321	ND	0.025	0.12		
1,4-DINITROBENZENE	99650	8321	ND	0.023	0.12		
1,3,5-TRINITROTOLUENE	118967	8321	ND	0.021	0.12		
1,4-DINITROTOLUENE	121142	8321	ND	0.026	0.12		
1,3-DINITROTOLUENE	606202	8321	ND	0.022	0.12		
1,2,4-TRINITROTOLUENE	35572782	8321	ND	0.036	0.12		
1,3,5-TRINITROTOLUENE	88722	8321	ND	0.026	0.12		
1,4-DINITROTOLUENE	99081	8321	ND	0.027	0.12		
1,2,4-TRINITROTOLUENE	19406510	8321	ND	0.020	0.12		
1,3,5-TRINITROTOLUENE	99990	8321	ND	0.025	0.12		
1,2,4-TRINITROTOLUENE	2691410	8321	ND	0.040	0.12		
1,3-DINITROBENZENE	98953	8321	ND	0.025	0.12		
1,3-DINITROGLYCERIN	55630	8321	ND	0.030	0.12		
1,2,4-TRINITROTOLUENE	78115	8321	ND	0.051	0.12		
1,3,5-TRINITROTOLUENE	121824	8321	ND	0.020	0.12		
1,2,4-TRINITROTOLUENE	479458	8321	ND	0.024	0.12		



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**QUALITY ASSURANCE REVIEW OF THE  
AQUEOUS SAMPLE COLLECTED ON NOVEMBER 6, 2002  
FOR THE DUPONT CORPORATE REMEDIATION GROUP  
11/02 GROUNDWATER SAMPLING PROJECT  
AT THE BARKSDALE, WISCONSIN FACILITY**

January 16, 2003

Prepared for:

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**Section 5      Project Correspondence**

## **Executive Summary**

An analytical quality assurance review was performed on data for the aqueous sample collected in association with the DuPont Corporate Remediation Group 11/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The organic analysis was performed by an SW-846 method. A comprehensive Contract Laboratory Program (CLP)-like raw data package was prepared by the laboratory and was reviewed by Environmental Standards.

The quality of the data is acceptable; qualification of data was not warranted. Reporting errors were not identified during the quality assurance review.

## **Introduction**

This quality assurance (QA) review is based upon a rigorous examination of data generated from the aqueous sample that was collected on November 6, 2002, as part of the DuPont Corporate Remediation Group 11/02 Groundwater Sampling Project at the Barksdale Facility in Barksdale, Wisconsin. The sample that has undergone a QA review is identified on Table 1. Table 1 also presents the field sample number, laboratory sample number, STL project number, collection date, and parameter analyzed and reviewed for the sample.

This review has been performed with guidance from the "National Functional Guidelines for Organic Data Review" (US EPA, 2/94).

The reported analytical results are presented on the data tables included in Section 2, "Target Analyte Summary." These data tables have been generated from the Corporate Environmental Database (CED) and include all final data validation qualifiers and results. Data were examined to determine the usability of the analytical results and compliance relative to requirements specified by "Test Methods for Evaluating Solid Waste" (SW-846, Third Revision, 1986, and updates as applicable). In addition, the deliverables prepared according to a Contract Laboratory Program-like data package were evaluated. Details of this QA review are presented in Section 1 of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

**TABLE 1**

**SUMMARY OF GROUNDWATER SAMPLE DATA REVIEWED**

**DUPONT BARKSDALE, WISCONSIN FACILITY**

DuPont Corporate Remediation Group Sample Identification	Laboratory Sample Number	STL Project Number	Date of Sample Collection	Parameter Analyzed and Reviewed
BAR-G-30900N	FCL28	-D2K070326	11/6/02	E

**NOTE:**

E - Nitroaromatics and Nitroamines by SW-846 Method 8321A (Modified per STL SOP No. DEN-LC-0010, Revision No. 3).

## Section 1 Quality Assurance Review

### A. Organic Data

The organic analysis of one aqueous sample collected as part of the DuPont Corporate Remediation Group (DuPont) 11/02 Groundwater Sampling Project at the Barksdale, Wisconsin, Facility on November 6, 2002, was performed by Severn Trent Laboratories, Inc. (STL) in Denver, Colorado. The sample was analyzed for nitroaromatics and nitroamines according to SW-846 Method 8321A, as specified in "Test Methods for Evaluating Solid Waste" (SW-846, Third Edition, Final Update II, September, 1994) and modified as specified in STL proprietary Standard Operating Procedure (SOP) No. DEN-LC-0010 (Revision No. 3). This modified method uses liquid chromatography with a thermospray interfaced to a mass spectrometer (LC/TSP/MS) and is specified on Table 1. The data were presented in one Contract Laboratory Program (CLP)-like data package.

The findings offered in this report are based upon a rigorous review of the following:

- sample holding times
- blank analysis results
- surrogate recoveries
- qualitative identification
- quantitation of results
- sample condition upon laboratory receipt
- initial and continuing calibrations
- analytical sequence
- laboratory control sample (LCS) recoveries

The analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

### Data Package Deliverables

Overall, the organic data quality is good. The following analytical criteria and reporting requirements were not met for the original data package received. Reporting errors were not identified during the quality assurance review. The following items do not affect data usability. Usability is addressed in the Data Evaluation section.

### Noncorrectable Deficiencies

1. The laboratory analyzed several continuing calibration verification (CCV) standards at a concentration of 200 µg/L. According to STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33), the concentration of the CCVs must be 100 µg/L. In the data reviewer's opinion, there was no impact on the data review process due to this issue.
2. The percent differences (%Ds) for 1,3,5-trinitrobenzene and/or HMX in two CCV standards were greater than the 30% criterion specified in STL SOP No. DEN-LC-0010 (Section 10.6.1, pg. 14 of 33). There was adequate instrument sensitivity to achieve the



method detection limits (MDLs) and practical quantitation limits (PQLs) despite the non-compliant CCV %Ds because the %Ds were in the direction of sensitivity increase. Positive results were not observed for 1,3,5-trinitrobenzene and HMX in the associated sample; therefore, qualification of data was not warranted due to this issue.

3. The laboratory analyzed the initial calibration blank (ICB) directly before the initial calibration verification (ICV) standard. According to STL SOP No. DEN-LC-0010 (Section 10.7, pg. 14 of 33), the ICB must be analyzed after the ICV. The ICB should be analyzed after the ICV in order to measure possible carryover. In addition, the analysis of the ICB directly prior to the ICV may act to clean the instrument before analyzing the ICV; as a result, the ICV analysis conditions may not be completely reflective of the instrument conditions at the time of the actual sample analyses. The ICB was analyzed directly after the highest initial calibration standard and, therefore, should have provided an indication of possible carryover. Positive results were not observed for the target compounds in the ICB; therefore, qualification of data was not warranted due to this issue.

#### Comments

1. The data package was not paginated.
2. As noted in the Laboratory Case Narrative, a sample cooler temperature of 2.6°C was recorded upon laboratory receipt for the project sample. Samples collected for nitroaromatics and nitroamines analyses are required to be preserved at a temperature of 4°C (STL SOP No. DEN-LC-0010 [Section 8.2., pg. 10 of 33]). The data reviewer, however, does not consider the data to have been impacted because it is customary for the acceptable preservation temperature to be 4±2°C.
3. The MDLs and PQLs in the project sample were not adjusted for the exact volume extracted. For the MDLs and PQLs, the laboratory uses a standard dilution factor for samples based on an initial sample volume of 1000 mL and a final extract volume of 5 mL unless the amount extracted differs from 1000 mL by 20% or more. The amount extracted for the sample was 1053 mL, which would impact the reported MDLs and PQLs by 5% if the reported MDLs and PQLs were to be adjusted for the exact volume extracted. The MDLs and PQLs reported on the data tables in Section 2 have not been adjusted for the exact sample volume due to the minimal impact on the reported values.

#### Data Evaluation

With respect to data usability, qualification of the data was not warranted. A review of the holding times determined that all extractions and analyses were performed within holding times. The condition of the sample upon laboratory receipt was acceptable. Blank analysis results revealed no contamination problems. Linearity for all target compounds was demonstrated in the initial calibration by acceptable coefficients of determination. Instrument stability for all target compounds was demonstrated by acceptable continuing calibration recoveries (or continuing

calibration recoveries that did not require qualification). Precision and accuracy were demonstrated by acceptable surrogate recoveries and LCS/LCSD recoveries and relative percent differences (or LCS/LCSD recoveries that did not require qualification).

A complete support documentation of this organic QA review is provided in Section 3 of this report.

B. Conclusions

Based on this QA review, qualification of the nitroaromatics and nitroamines sample results was not warranted. The Laboratory Case Narrative and Project Chain-of-Custody Record are presented in Section 4 of this report. The Project Correspondence is presented in Section 5 of this report.

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**SECTION 2**

**TARGET ANALYTE SUMMARY**

## ORGANIC DATA QUALIFIERS

- ND The compound was not detected at or above the associated numerical value.
- U This compound should be considered "not detected" because it was detected in a blank at a similar level.
- J Quantitation is approximate due to limitations identified during the quality assurance review (data validation).
- R Unusable result; compound may or may not be present in this sample.
- UJ This compound was not detected, but the detection limit is probably higher due to a low bias identified during the quality assurance review.

LOCATION	BARKSDALE WORKS
JOBNAME	30900N-WELL SAMPLING 11/02
WORKORD	FCL28
SAMPLENO	BAR-G-30900N-INFLOW
DATESMPL	06-NOV-02
TIMESMPL	1015
SMPLTYPE	GROUND WATER
SAMPLE	FS
FRACTION	2
UNIT	UG/L

ANALYTE	CASNO	METHODNO	RESULT	MDL	PQL	QUAL_EPA	REVIEW
TRINITROBENZENE	99354	8321	ND	0.025	0.12		
NITROBENZENE	99650	8321	ND	0.023	0.12		
TRINITROTOLUENE	118967	8321	ND	0.021	0.12		
NITROTOLUENE	121142	8321	ND	0.026	0.12		
NITROTOLUENE	606202	8321	ND	0.022	0.12		
NO-4,6-DINITROTOLUENE	35572782	8321	ND	0.036	0.12		
ROTOLUENE	88722	8321	ND	0.026	0.12		
ROTOLUENE	99081	8321	ND	0.027	0.12		
NO-2,6-DINITROTOLUENE	19406510	8321	ND	0.020	0.12		
ROTOLUENE	99990	8321	ND	0.025	0.12		
	2691410	8321	ND	0.040	0.12		
DBENZENE	98953	8321	ND	0.025	0.12		
DGLYCERIN	55630	8321	ND	0.030	0.12		
	78115	8321	ND	0.051	0.12		
	121824	8321	ND	0.020	0.12		
YL	479458	8321	ND	0.024	0.12		