VAPOR INTRUSION EVALUATION

LETTER REPORT

WORK ASSIGNMENT D004433-5

BOMAX MANUFACTURING
CITY OF WATERTOWN

SITE NO. 6-23-009
JEFFERSON (C), NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Denise M. Sheehan, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

URS Corporation
77 Goodell Street
Buffalo, New York 14203

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Final
March 2007

LETTER REPORT

SOIL VAPOR INTRUSION EVALUATION
FOR THE
BOMAX MANUFACTURING SITE
SITE #6-23-009
WATERTOWN, NEW YORK

Prepared For:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
WORK ASSIGNMENT # D004433-5

Prepared By:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NEW YORK 14203

FINAL
MARCH 2007

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TABLES

(Following Text)

ATTACHMENTS

1.0 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) requested URS Corporation (URS), under it's State Superfund Standby Contract, to perform a Vapor Intrusion Evaluation at the Bomax Manufacturing site (Site No. 6-23-009) in Watertown, Jefferson County, New York. The site consists of a former Bomax manufacturing plant and surrounding vacant land. Groundwater and soil vapor sampling were conducted to assess potential soil vapor intrusion of chlorinated volatile organic compounds (VOCs) into the surrounding area.

The results of this vapor intrusion evaluation are presented in this letter report. Section 2.0 includes a general description of the field activities completed. Section 3.0 provides the analytical results of the groundwater and soil vapor sampling.

2.0 FIELD ACTIVITIES

The following field activities were completed at the Bomax Manufacturing site during the soil vapor intrusion investigation**.** All of the fieldwork completed followed the requirements and specifications presented in the URS-prepared Work Plan, Field Sampling Plan and Health and Safety Plan.

- Site visit to mark out drilling locations;
- Drilling and installation of 11 shallow soil vapor implants;
- Sampling and analysis of four groundwater grab samples from soil borings; and
- Sampling and analysis of 10 soil vapor samples.

Soil Vapor Implant Drilling and Installation

On July 20, 2006, representatives from URS and NYSDEC marked out drilling locations for soil vapor implants at eleven area locations. Utility locators were also notified of the boring locations and they completed utility mark outs.

On July 25, 2006, URS supervised the drilling and construction of temporary shallow soil vapor implants at 11 locations. The locations were identified as 623009-V-1 through 623009-V-11 (see Table 1). GeoLogic NY, Inc., a drilling contractor from Homer, New York, performed the drilling. Soil vapor implant construction consisted of first drilling an approximate 3-inch diameter boring using direct-push drilling techniques and macro core drilling tools. A 6-inch long stainless steel screen (implant) was then placed in the borehole to the desired sampling depth and connected to a 3/8-inch diameter polyethylene tube brought to approximately 3-feet above ground surface. Sand was placed in the borehole to cover the screen, and hydrated bentonite was then placed in the remainder of the borehole. Shallow soil vapor implants were installed at each of the 11 locations. Boring logs and soil vapor implant construction drawings are provided in Attachment A.

After the construction of 623009-V-1S, it was discovered that this implant was saturated with groundwater. This implant was sampled for groundwater (see Section 3.0, Groundwater Sampling) and removed from the ground. The soil vapor implant for this location was re-drilled and replaced by a shallower implant also designated 623009-V-1S.

3.0 SAMPLE COLLECTION

Photographic Log

Photographs were taken during the sampling of the soil vapor implants. A photograph log is provided in Attachment B.

Soil Vapor Sampling

Prior to sampling, helium tracer gas testing was conducted at all sampling locations to ensure that the soil vapor samples were not affected by ambient air being drawn into the Summa® canisters used to collect the samples. Soil vapor sampling and helium testing followed procedures presented in URS' approved Field Sampling Plan (URS, 2006). Soil vapor samples were collected at locations 623009-V-1S, 623009-V-2S, and 623009-V-4S through 623009-V-11S on July 26 and 27, 2006. A duplicate sample of 623009-V-7S was also collected and designated 20060727-FD-1. Collection of a soil vapor sample at location 623009-V-3S was attempted but tight soils and a resulting high soil vacuum prevented a sample from being collected.

Samples were collected using 6-liter Summa® canisters with two-hour regulators. Soil vapor samples were shipped to Con-Test Analytical Laboratories in East Longmeadow, MA for analysis of the Target Compound List (TCL) volatile organic compounds (VOCs) using USEPA Method TO-15.

A summary of the soil vapor samples collected is presented in Table 1. Validated analytical results are provided in the Data Usability Summary Report (DUSR) provided in Attachment C. Soil vapor sampling records and Chain of Custody forms are provided in Attachment D.

Groundwater Sampling

Four groundwater grab samples were collected on July 25, 2006 during the drilling and installations of the soil vapor implants. One sample, 623009-GW-1, was collected from a shallow soil vapor implant designated as 623009-V-1S. Three additional groundwater grab samples were collected from open boreholes prior to construction of the soil vapor implants. These groundwater samples were designated 623009-GW-2, 623009-GW-5 and 623009-GW-7. A summary of the groundwater samples collected is presented in Table 1.

Validated laboratory results for the groundwater samples are provided in the DUSR in Attachment C. Groundwater sampling records and Chain of Custody forms are provided in Attachment E.

REFERENCES

New York State Department of Health (NYSDOH). 2005. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft, February 2005.

URS Corporation (URS). 2006. Field Sampling Plan for the Vapor Intrusion Evaluations for New York State Remedial Sites.

URS. 2006. Vapor Intrusion Evaluation Work Plan/Budget Estimate for Bomax Manufacturing Site.

URS. 2006. Health and Safety Plan, Bomax Manufacturing Site.

Table 1
Site Sampling Summary
Bomax Manufacturing Site, Watertown, NY
Soil Vapor Intrusion Evaluation
Site # 6-23-009

Location ID	NYSDEC Sample ID	General Location/Comments	Sample Date	Depth to GW (ft bgs)	Depth to SG Implant Base (ft bgs)	Leak-Test Successful? (yes or no)	Start Vacuum (in. Hg)	End Vacuum (in. Hg)	Start Time	Stop Time	Duration (hours)
Soil Vapor Samples											
623000-V-1	623009-V-1S	Center of building on easet side. Soil gas implant.	7/26/2006	<4	2.75	Yes	-26	-3	1814	1954	100
623009-V-2	623009-V-2S	Former drum storage area southeast of building. Soil gas implant.	7/26/2006	4.1	3.0	Yes	-30	-6	1832	1946	74
623009-V-3	Sample not analyzed-no vacuum loss. Tight soil.	In field south east of building. Soil gas implant.	7/26/2006	Not observed	6.0	Yes	-30	-30	1100	1625	325
623009-V-4	623009-V-4S	South of building at edge of driveway. Soil gas implant.	7/26/2006	4	3.75	Yes	-30.0	-3.0	1854	1906	12
623009-V-5	623009-V-5S	Southwest corner of building near former solvent/waste oil tank. Soil gas implant	7/27/2006	3.2	3.0	Yes	-22.5	-2.0	1009	1132	83
623009-V-6	623009-V-6S	Northwest corner of Building. Soil gas implant.	7/27/2006	Not observed	4.75	Yes	-30	-3.5	902	1040	98
623009-V-7	623009-V-7S / 20060727-FD-1 (Duplicate of 623009-V-7S)	West side of building near loading dock. Soil gas implant.	7/27/2006	3.1	3.0	Yes	-30	-10	945	1119	94
623009-V-8	623009-V-8S	Southwest of building along Salmon Run Mall Road. Soil gas implant.	7/27/2006	Not observed	4.8	Yes	-29.5	-1	1202	1214	12
623009-V-9	623009-V-9S	Northwest of septic tankl/leach field. Soil gas implant.	7/26/2006	Not observed	3.8	Yes	-30	-4	1530	1730	120
623009-V-10	623009-V-10S	Southeast of septic tankl/leach field. Soil gas implant.	7/26/2006	Not observed	3.8	Yes	-28	-4	1433	1557	84
623009-V-11	623009-V-11S	Northeast of septic tankl/leach field. Soil gas implant.	7/26/2006	Not observed	4.0	Yes	-25	-4	1508	1645	97
Groundwater Grab Samples from Soil Vapor Borings											
623009-V-1	623009-GW-1	Sample from top of the water table.	7/25/2006	<4	NA	NA	NA	NA	NA	NA	NA
623009-V-2	623009-GW-2/MS/MSD	Sample from top of the water table.	7/25/2006	4.1	NA	NA	NA	NA	NA	NA	NA
623009-V-5	623009-GW-5	Sample from top of the water table.	7/25/2006	3.2	NA	NA	NA	NA	NA	NA	NA
623009-V-7	623009-GW-7	Sample from top of the water table.	7/25/2006	3.1	NA	NA	NA	NA	NA	NA	NA

NA = Not Applicable
bgs = Below ground surface

ATTACHMENT A

BORING LOGS AND SOIL VAPOR IMPLANT CONSTRUCTION DRAWINGS

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY
BORING NO:	623009-V-1S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	E. of building
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. BURMEIER

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	SAMPLE NO.	SAMPLE TYPE	SAMPLE RECOVERY %	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	83%	Brown	0-0.9' SILT, some organics and very fine sand	ML	0.0 ppm	Moist
						0.9-2.2' SILT, some fine-medium gravel & medium sand	ML		
						2.2-3.0' CLAY	CL		
					Gray	3.0-4.0' Limestone bedrock	-		Dry
5						Refusal on rock at 4.0'			
10									
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 4.0' BGS.
Soil vapor implant installed at 2.75' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-1S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY

BORING NO:	623009-V-2S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	Drum storage area
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. BURMEISTER

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	RECOVERY %	COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	100%	Gray	0-0.5' Blacktop, subbase (fill)	Fill	0.0 ppm	Moist
					Gray-brown	0.5-5.3' clayey SILT, trace medium gravel w/ gray mottling	ML		
5						wet at 4.1'			wet
		2	Macro Core	13%	Gray	5.3-5.5' Limestone bedrock			

Refusal at 5.5' on rock

10 15 20 25 30 35

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 5.5' BGS.
Soil vapor implant installed at 3.0' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-2S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY
BORING NO:	623009-V-3S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	S.E. of building
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. Burmeister

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	RECOVERY %	COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	100%	Brown	0-0.5' SILT, some organics, trace medium gravel 0.5-6.4' clayey SILT	ML	0.0 ppm	Moist
5		2	Macro Core	63%	Gray	6.4-6.5' Limestone bedrock			

Refusal at 6.5' on rock

10 15 20 25 30 35

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 6.5' BGS.
Soil vapor implant installed at 4.0' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-3S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY

BORING NO:	623009-V-4S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	S.of building
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. BURMEIER

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.		--		
				FALL		--		
				* POCKET PENETROMETER READING				

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	RECOVERY %	COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	100%	Brown	0-0.9' Silt & fine-med. gravel, some fine-medium sand 0.9-3.5' SILT, some clay, trace fine gravel 3.5-4.3' SILT, some fine sand Wet at 4.1'	ML	0.0 ppm	Moist wet
5		2	Macro Core	10%	Gray	4.3-4.5' Limestone bedrock			
10						Refusal at 4.5' on rock			
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 4.5' BGS.
Soil vapor implant installed at 3.75' bgs (see construction diagram).

PROJECT NO.	11174772.00002
BORING NO.	623009-V-4S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY

BORING NO:	623009-V-5S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	S.E.of building
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. BURMEISTER

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	SAMPLE NO.	SAMPLE TYPE	SAMPLE RECOVERY %	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	100%	Brown	0-0.8' Silt, trace organics 0.8-3.0' SILT, trace clay 3.0-3.5' Clayey silt (wet at 3.2')	ML	0.0 ppm	Moist wet
5						Refusal at 3.6' on rock			
10									
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 3.6' BGS.
Soil vapor implant installed at 3.0' bgs (see construction diagram).

PROJECT NO.	11174772.00002
BORING NO.	623009-V-5S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY

BORING NO:	623009-V-6S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	NW of building
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. BURMEISTER

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	SAMPLE NO.	SAMPLE TYPE	SAMPLE RECOVERY %	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	90%	Brown GR Brn	0-1.1' Silt, trace organics and medium gravel 1.1-4.75' SILT, with light brown mottling	ML	0.0 ppm	Moist
5		2	Macro Core	21%	Dark gray	4.75' Limestone bedrock		0.3 ppm	
10						Refusal at 4.75' on rock			
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 4.0' BGS.
Soil vapor implant installed at 4.75' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-6S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY
BORING NO:	623009-V-7S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	West of building
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. Burmeier

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	RECOVERY %	COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	60%	Brown	0-1.0' SILT, some fine-medium gravel & fine-med. sand	ML	0.0 ppm	Moist
					↓	1.0-1.7' SILT, some fine-medium sand, trace fine gravel	↓	↓	↓
					Lt.Brn	1.7-3.0' SILT, trace fine gravel			
					Gray	3.0' -3.3 Limestone bedrock			
5						Refusal at 3.3' on rock			
10									
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 3.3' BGS.
Soil vapor implant installed at 3.0' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-7S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY
BORING NO:	623009-V-8S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	Salmon Run Mall Rd
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. BURMEISTER

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	SAMPLE NO.	SAMPLE TYPE	SAMPLE RECOVERY %	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	100%	Brown	0-4.5' SILT, some organics top 0.2'. Trace clay	ML	1.1ppm	Moist
5						4.5-4.8' Very fine sand and silt. Wet at 4.5'		0.4 ppm	Wet
		2	Macro Core	21%	Gray	4.8' Limestone bedrock		0.0 ppm	
10						Refusal at 4.8' on rock			
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 4.8' BGS.
Soil vapor implant installed at 4.8' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-8S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY

BORING NO:	623009-V-9S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	NW of septic tank
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. Burmeier

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.		--		
FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	SAMPLE NO.	SAMPLE TYPE	SAMPLE RECOVERY %	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	100%	Brown	0-2.0' SILT, some very fine sand, trace fine gravel 2.0-3.5' Fine GRAVEL (fill?), little silt and clay 3.5-3.8' Silty clay and fine gravel	ML	0.0 ppm	Moist
5					Gray	3.8-4.0' Limestone bedrock			

Refusal at 4.0' on rock

10 15 20 25 30 35

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 4.0' BGS.
Soil vapor implant installed at 3.8' bgs (see construction diagram).

PROJECT NO.	11174772.00002
BORING NO.	623009-V-9S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY
BORING NO:	623009-V-10S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	S. of septic tank
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. Burmeier

GROUNDWATER:

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macrocore		
				DIA.		2"		
				WT.		--		
				FALL		--		

* POCKET PENETROMETER READING

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	RECOVERY %	COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	73%	Brown ↓ Dk brn	0-1.15' SILT, some fine gravel and coarse sand 1.15-2.1' Fine GRAVEL, some silt and fine sand 2.1-4.0' Clayey SILT.	ML	0.0 ppm	Moist
5					Gray	Refusal at 4.0' on limestone bedrock			
10									
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 4.0' BGS.
Soil vapor implant installed at 3.8' bgs (see construction diagram).

PROJECT NO. 11174772.00002
BORING NO. 623009-V-10S

URS Corporation

TEST BORING LOG

PROJECT:	Bomax Vapor Intrusion Investigation, Watertown, NY
CLIENT:	NYSDEC
BORING CONTRACTOR:	GeoLogic NY

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.		--		
				FALL		--		
				* POCKET PENETROMETER READING				

BORING NO:	623009-V-11S
SHEET:	1 of 1
JOB NO.:	11174772.00002
BORING LOCATION:	NE of septic tank
GROUND ELEVATION:	NA
DATE STARTED:	7/25/06
DATE FINISHED:	7/25/06
DRILLER:	Liam Cummins
GEOLOGIST:	John Boyd
REVIEWED BY:	T. Brauer

DEPTH FEET	SAMPLE STRATA	NO.	TYPE	RECOVERY %	DESCRIPTION COLOR	MATERIAL DESCRIPTION	USCS	REMARKS PID	REMARKS MOISTURE
		1	Macro Core	90%	Brown	0-3.2' SILT, trace organics in top 0.2' 3.2-5.1' Silt and clay	ML	0.0 ppm	Moist
5		2	Macro Core	30%	Gray	5.1' Limestone bedrock			
						Refusal at 5.1' on rock			
10									
15									
20									
25									
30									
35									

COMMENTS: Geoprobe 5400 using a 4' x 3" macrocore to a depth of 5.1' BGS.
Soil vapor implant installed at 4.0' bgs (see construction diagram).

PROJECT NO.	11174772.00002
BORING NO.	623009-V-11S

DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

Driller: Liam Cummins

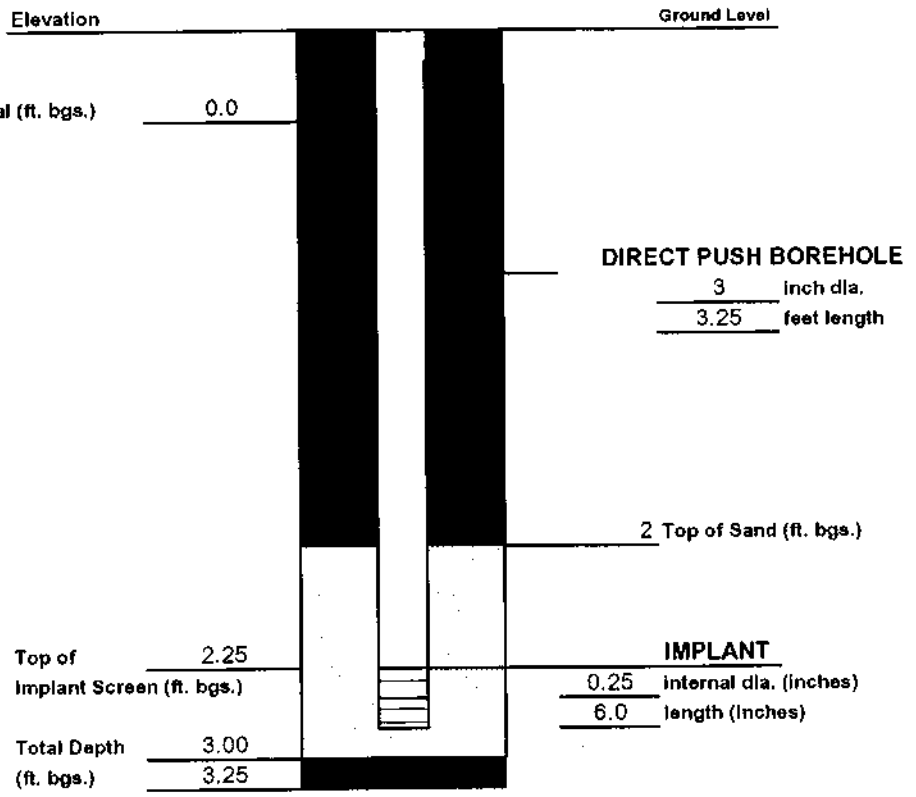
Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log

DEPTH



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Grass	**Type:** 6-inch stainless steel implant	Type: #1 Sand Setting: 3.0-2.0
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	**SEAL MATERIAL**
		Type: Bentonite Setting: 3.25-3.0, 2.0-0.0
		Grout Setting: NA
		Concrete Setting: NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-1S**

J:\11174772.00000\EXCEL\[Bomax Soil Gas Construction Dwgs.xls]623009-V-1S

DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

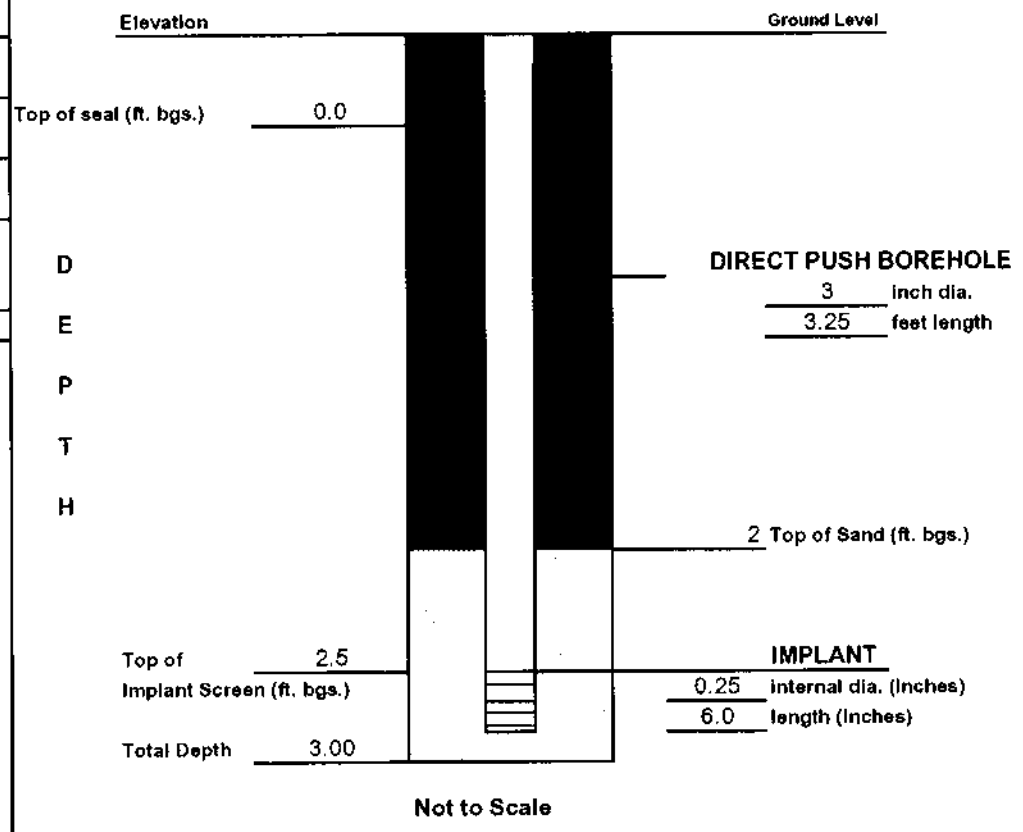
Driller: Liam Cummins

Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Blacktop	**Type:** 6-inch stainless steel implant	Type: #1 Sand Setting: 3.0-2.0
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	**SEAL MATERIAL**
		Type: Bentonite Setting: 2.0-0.0
		Grout Setting: NA
		Concrete Setting: NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	SOIL GAS IMPLANT CONSTRUCTION DETAILS	**Well Number: 623009-V-2S**

J:\11174772.00000\EXCEL\[Bomax Soil Gas Construction Dwgs.xls]623009-V-2S

DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

Driller: Liam Cummins

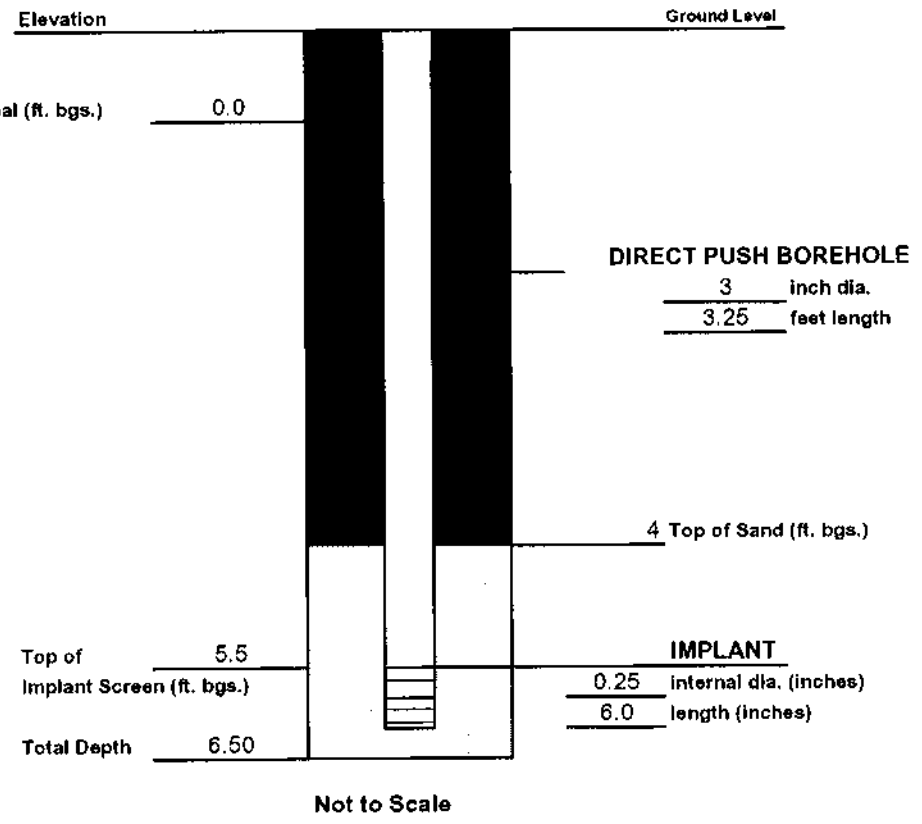
Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log

DEPTH



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Grass	**Type:** 6-inch stainless steel implant	Type: #1 Sand Setting: 6.5-4.0
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	**SEAL MATERIAL**
		Type: Bentonite Setting: 4.0-0.0
		Grout Setting: NA
		Concrete Setting: NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-3S**

J:\11174772.00000\EXCEL\[Bomax Soil Gas Construction Dwgs.xls]623009-V-3S

DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

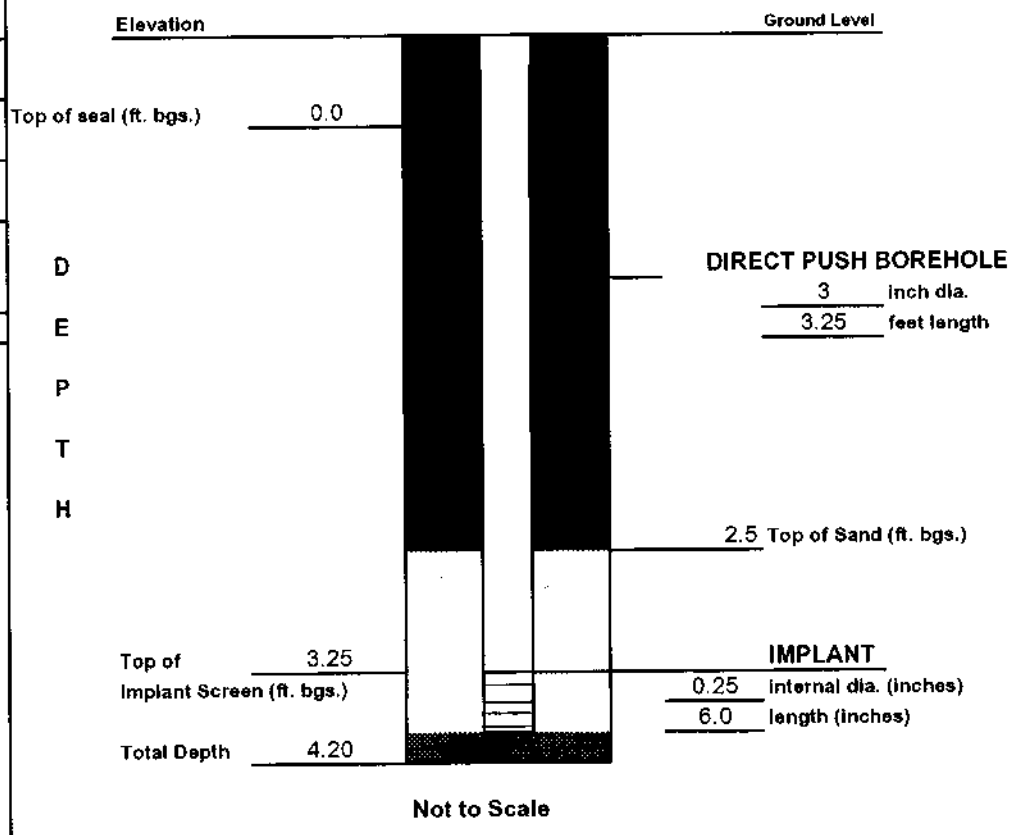
Driller: Liam Cummins

Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Grass	**Type:** 6-inch stainless steel implant	**Type:** #1 Sand **Setting:** 3.75-2.5
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	**SEAL MATERIAL**
		Type: Bentonite **Setting:** 4.2-3.75, 2.5-0.0
		Grout **Setting:** NA
		Concrete **Setting:** NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-4S**

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DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

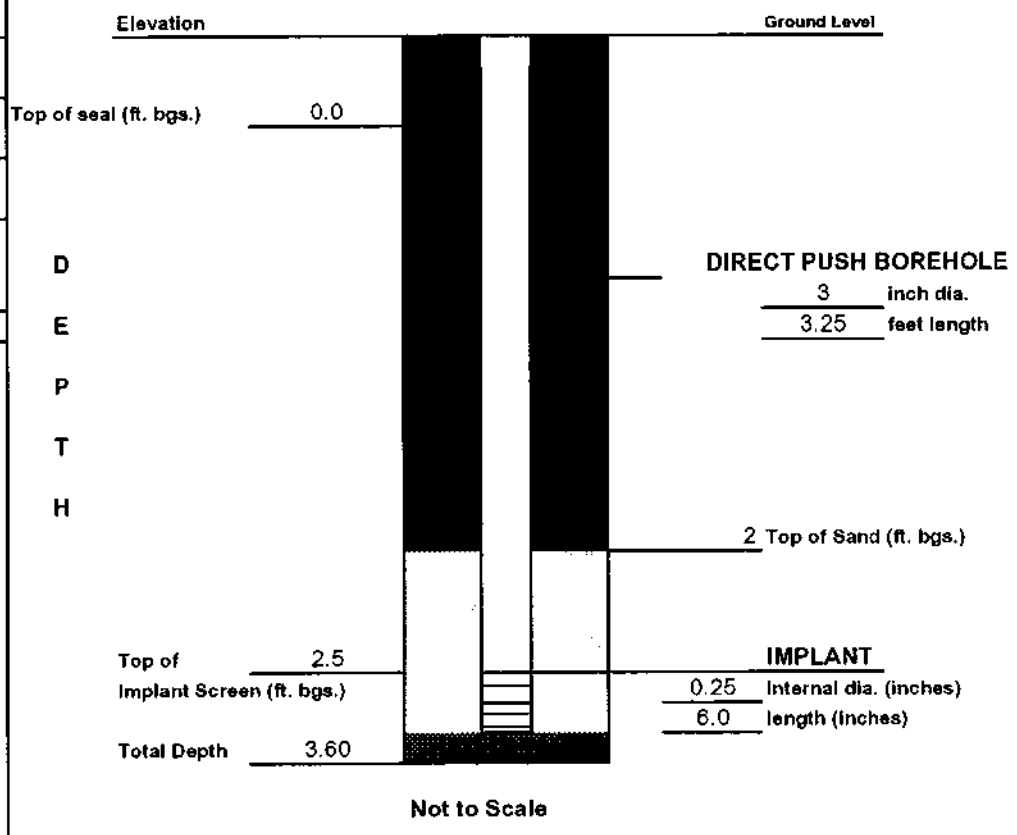
Driller: Liam Cummins

Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Grass	**Type:** 6-inch stainless steel implant	**Type:** #1 Sand **Setting:** 3.0-2.0
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	***SEAL MATERIAL***
		Type: Bentonite **Setting:** 3.7-3.0, 2.0-0.0
		Grout **Setting:** NA
		Concrete **Setting:** NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-5S**

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DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

Driller: Liam Cummins

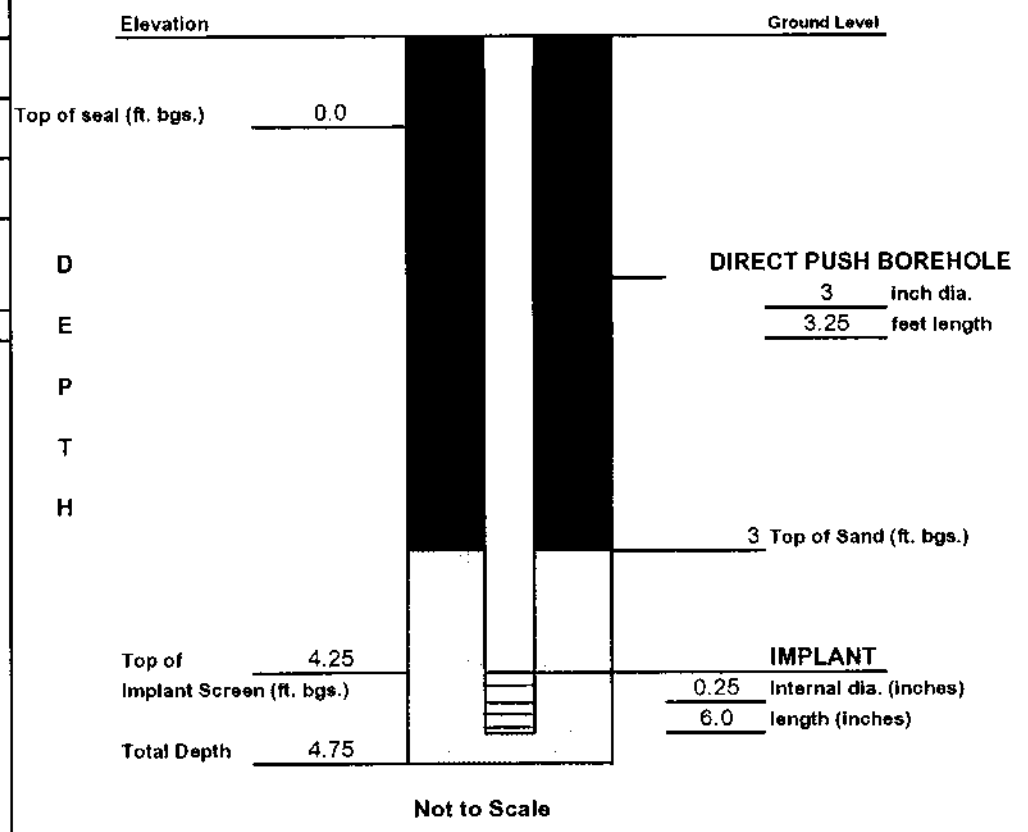
Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log

D
E
P
T
H



WELL DESIGN

CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL		
Surface:	Grass	**Type:**	6-inch stainless steel implant	**Type:** #1 Sand	**Setting:**	4.75-3.0
Well:	3/8-inch OD polyethylene tubing	**Pore Diameter:**	0.0057-inch	**SEAL MATERIAL**		
				Type: Bentonite	**Setting:**	3.0-0.0
				Grout	**Setting:**	NA
				Concrete	**Setting:**	NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-6S**

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DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

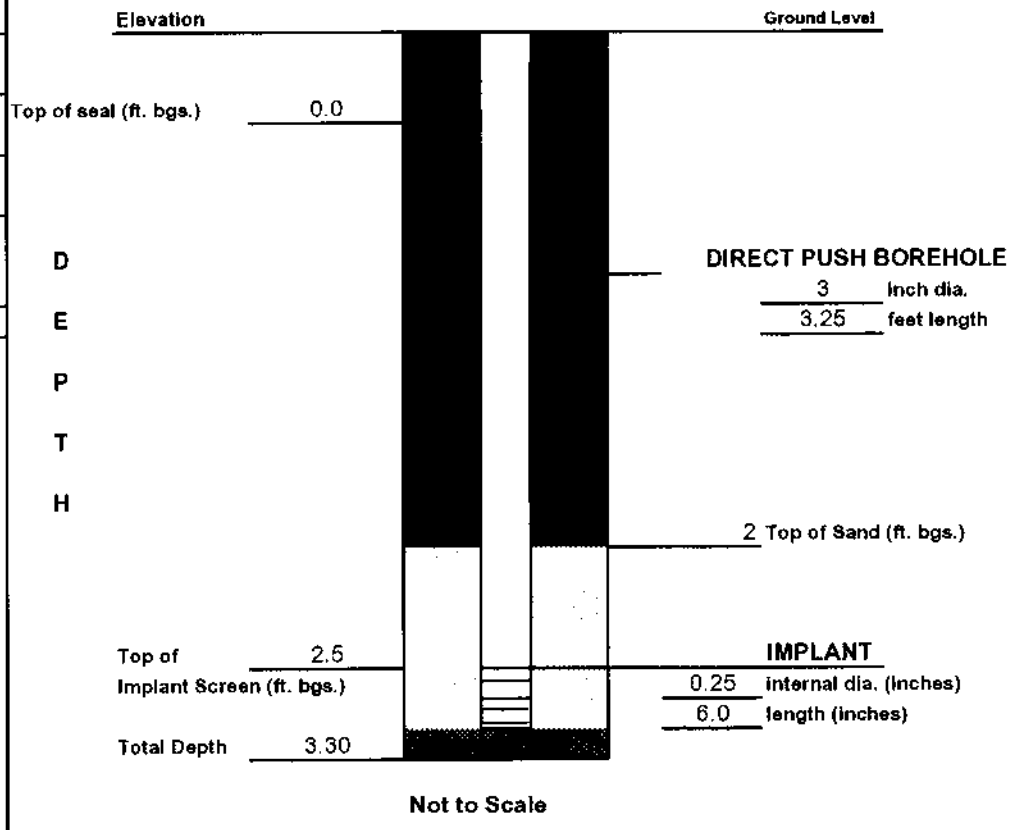
Driller: Liam Cummins

Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Grass	**Type:** 6-inch stainless steel implant	**Type:** #1 Sand **Setting:** 3.0-2.0
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	**SEAL MATERIAL** **Type:** Bentonite **Setting:** 3.3-3.0, 2.0-0.0 Grout **Setting:** NA Concrete **Setting:** NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	SOIL GAS IMPLANT CONSTRUCTION DETAILS	**Well Number: 623009-V-7S**

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DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

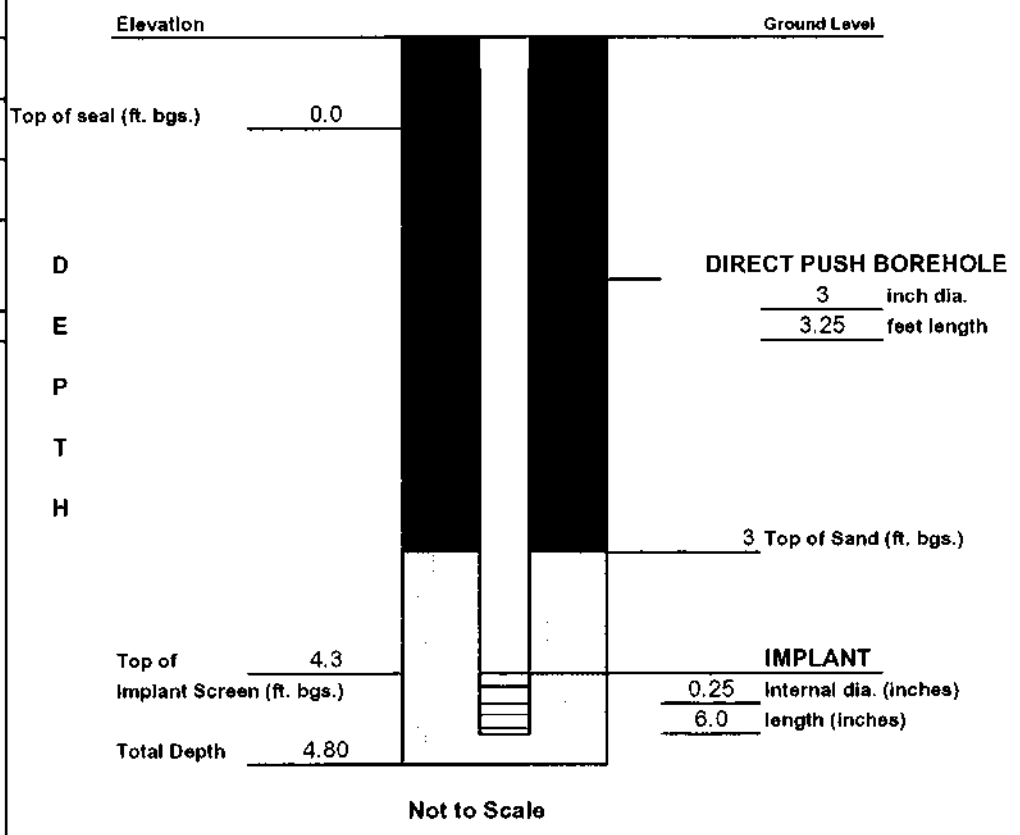
Driller: Liam Cummins

Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log



WELL DESIGN

CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL	
Surface:	Grass	**Type:**	6-inch stainless steel implant	**Type:** #1 Sand	**Setting:** 4.8-3.0
Well:	3/8-inch OD polyethylene tubing	**Pore Diameter:**	0.0057-inch	*SEAL MATERIAL*	
				Type: Bentonite	**Setting:** 3.0-0.0
				Grout	**Setting:** NA
				Concrete	**Setting:** NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	SOIL GAS IMPLANT CONSTRUCTION DETAILS	**Well Number:** 623009-V-8S

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DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

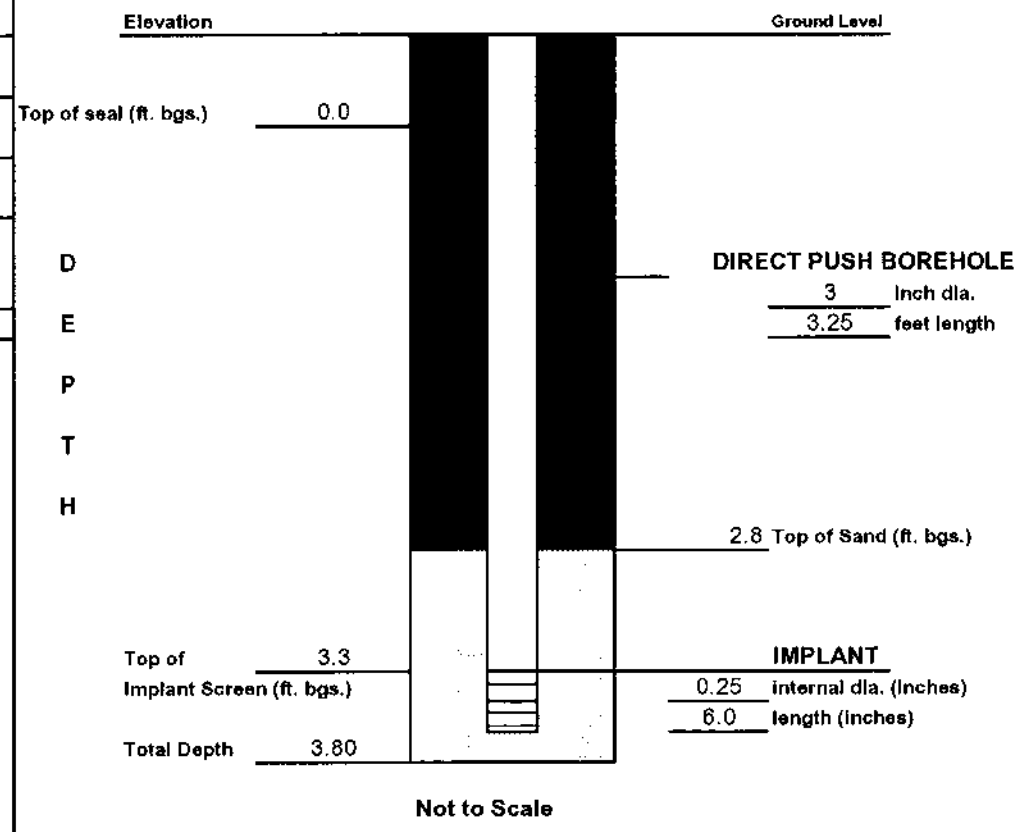
Driller: Liam Cummins

Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log



WELL DESIGN

CASING MATERIAL		SCREEN MATERIAL		FILTER MATERIAL		
Surface:	Grass	**Type:**	6-inch stainless steel implant	Type: #1 Sand	Setting:	3.8-2.8
				SEAL MATERIAL		
Well:	3/8-inch OD polyethylene tubing	**Pore Diameter:**	0.0057-inch	Type: Bentonite	Setting:	2.8-0.0
				Grout	Setting:	NA
				Concrete	Setting:	NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-9S**

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DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

Driller: Liam Cummins

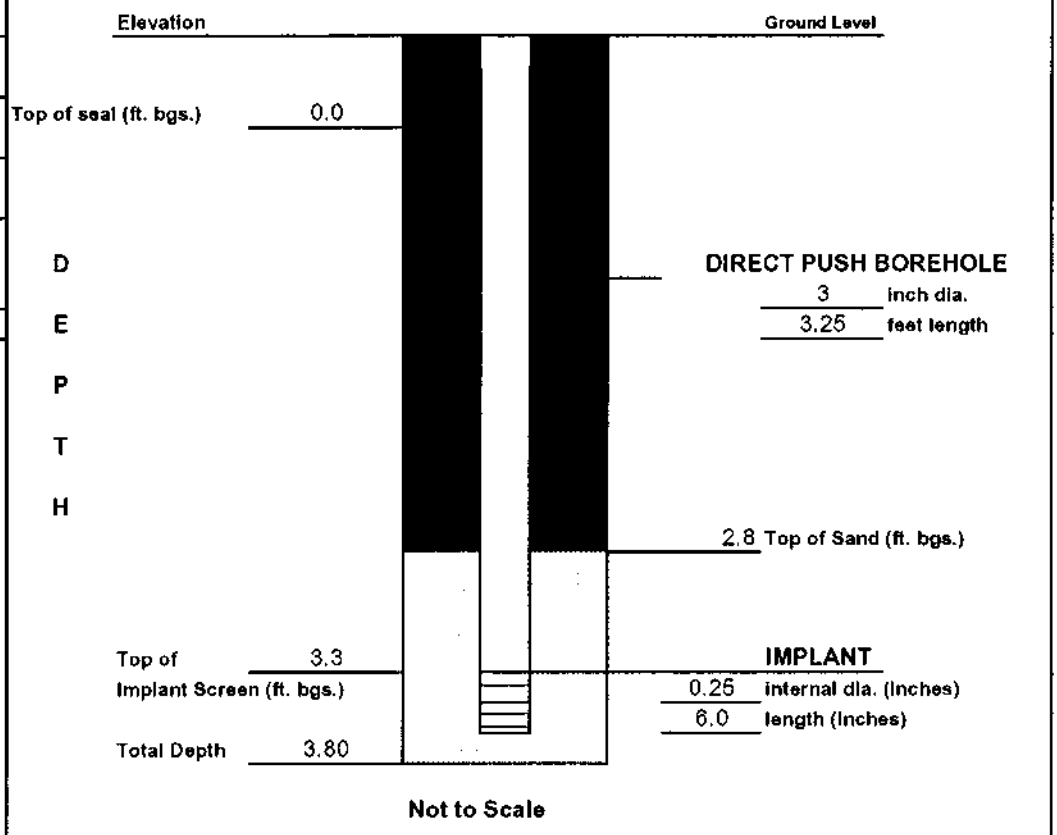
Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log

WELL DESIGN



CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Grass	**Type:** 6-inch stainless steel implant	**Type:** #1 Sand **Setting:** 3.8-2.8
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	*SEAL MATERIAL*
		Type: Bentonite **Setting:** 2.8-0.0
		Grout **Setting:** NA
		Concrete **Setting:** NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-10S**

J:\11174772.00000\EXCEL\[Bomax Soil Gas Construction Dwgs.xls]623009-V-10S

DRILLING SUMMARY

Geologist: John Boyd

Drilling Company: Geologic NY, Inc.

Driller: Liam Cummins

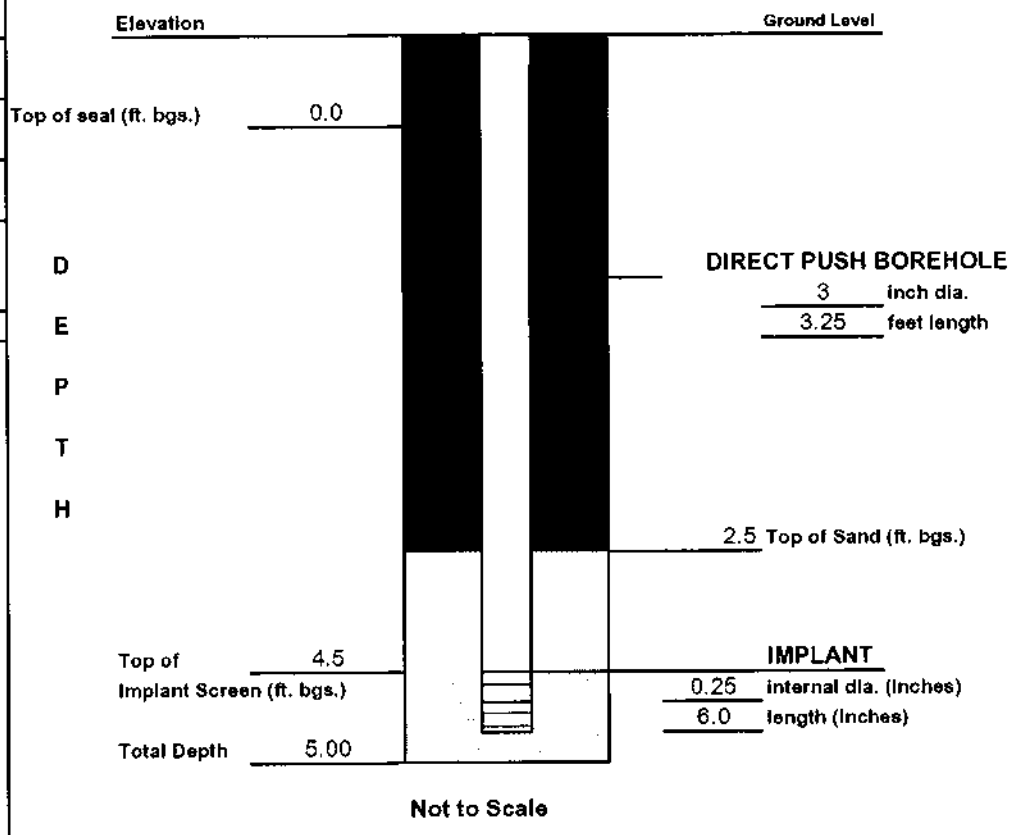
Rig Make/Model: Geoprobe 5400

Date: 7/25/2006

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log

DEPTH



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Grass	**Type:** 6-inch stainless steel implant	**Type:** #1 Sand **Setting:** 5.0-2.5
Well: 3/8-inch OD polyethylene tubing	**Pore Diameter:** 0.0057-inch	**SEAL MATERIAL**
		Type: Bentonite **Setting:** 2.5-0.0
		Grout **Setting:** NA
		Concrete **Setting:** NA

COMMENTS:

Implant connected to anchor point at bottom of boring. 3/8-inch outside diameter (OD) poly tubing connected from implant to surface for soil gas sampling.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYSDEC	**Location: Bomax Site**	**Project No.: 11174772**
URS Corporation	**SOIL GAS IMPLANT CONSTRUCTION DETAILS**	**Well Number: 623009-V-11S**

J:\11174772.00000\EXCEL\[Bomax Soil Gas Construction Dwgs.xls]623009-V-11S

ATTACHMENT B

PHOTOGRAPH LOG

623009-V-8S
Bomax Manufacturing Site

623009-V-5S
Bomax Manufacturing Site

623009-V-5S
Bomax Manufacturing Site

623009-V-7S
Bomax Manufacturing Site

623009-V-6S
Bomax Manufacturing Site

623009-V-4S
Bomax Manufacturing Site

623009-V-2S
Bomax Manufacturing Site

623009-V-1S
Bomax Manufacturing Site

623009-V-11S
Bomax Manufacturing Site

623009-V-10S
Bomax Manufacturing Site

623009-V-9S
Bomax Manufacturing Site

ATTACHMENT C

DATA SUMMARY USABILITY REPORT

DATA USABILITY SUMMARY REPORT

BOMAX MANUFACTURING
SITE NO. 6-23-009
WORK ASSIGNMENT D004433-05

Analyses Performed by:

CON-TEST ANALYTICAL LABORATORY
and MITKEM CORPORATION

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

OCTOBER 2006

TABLE OF CONTENTS

TABLES
(Following Text)

ATTACHMENTS

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. Analytical data for the soil gas and groundwater samples collected on July 25-27, 2006 are discussed in this DUSR.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The groundwater data being evaluated are from the July 25, 2006 sampling of four groundwater samples, one matrix spike/matrix spike duplicate (MS/MSD) pair, and one trip blank. The analytical laboratory that performed the analyses is Mitkem Corporation, located in Warwick, RI. The groundwater samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) following USEPA Method 8260B.

The soil gas data being evaluated are from the July 26-27, 2006 sampling of 10 soil gas samples and 1 field duplicate. The analytical laboratory that performed the analyses is Con-Test Analytical Laboratory, located in East Longmeadow, MA. The samples were analyzed for TCL VOCs following United States Environmental Protection Agency (USEPA) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, January 1999, Method TO-15, *Determination of VOCs in Air Collected in Specially Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*.

A limited data validation was performed on the samples following the guidelines in USEPA Region II *Validating Canisters of Volatile Organics in Ambient Air,* Rev. 0*,* April 1994, and USEPA Region II *Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8260B*, SOP HW-24, Revision 1, June 1999. The validation consisted of a review of the deliverable completeness, quality control and instrument calibration data, and verification of sample results.

Qualifications applied to the data include 'J' (estimated concentration), 'UJ' (estimated quantitation limit), and 'NJ' (presumptive presence of a compound /estimated concentration). Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only problems affecting data usability are discussed in this report.

Table 1 summarizes the qualifications applied to the sample results. The validated analytical results are presented on Tables 2, 3, and 4.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages [(i.e., NYSDEC Analytical Services Protocol (ASP) Category B or equivalent)] were provided by the laboratories, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. HOLDING TIMES/SAMPLE RECEIPT

All samples were received by the laboratories intact and under proper chain-of-custody.

The secondary dilution analysis of groundwater sample 623009-GW-5 was analyzed outside of the USEPA Region II technical holding time for volatile aromatic hydrocarbons in unpreserved aqueous samples, which is seven days from the time of sample collection. The detected results for ethyl benzene and total xylene reported from the secondary dilution of this sample have been qualified 'J'. This diluted analysis was also performed past the ASP contractual holding time of seven days from the validated time of sample receipt (VTSR) at the laboratory.

There are no contractual holding times specified in the June 2000 version of the NYSDEC ASP for VOC analysis of air samples collected in Summa® canisters. However, the USEPA Region II technical holding time for air samples collected in Summa® canisters is seven (7) days for polar compounds (e.g. alcohols, ketones) and fourteen (14) days for non-polar compounds from VTSR at

the laboratory. It should be noted that USEPA Method TO-15 indicates storage stability for many VOCs in Summa® canisters over a period of up to 30 days.

Soil gas samples 623009-V-01S, 623009-V-02S, 623009-V-04S, and 623009-V-08S were analyzed outside of the USEPA Region II technical holding time of 7 days from VTSR for polar VOCs. The results for acetone, 2-butanone, 4-methyl-2-pentanone (MIBK), and 2-hexanone were qualified 'UJ' or 'J' in these samples.

V. NONCONFORMANCES

- Continuing Calibrations

The percent difference (%D) between the initial calibration (ICAL) average relative response factor (RRF) and the RRF in one of the continuing calibration (CCAL) standards associated with the groundwater and trip blank samples exceeded the quality control (QC) limit of 20% for dichlorodifluoromethane, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene. The results for these compounds in the associated groundwater and trip blank samples listed on Table 1 have been qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in one of the CCAL standard associated with the soil gas samples exceeded the QC limit of 25% for acetone. The results for this compound in the associated soil gas samples listed on Table 1 have been qualified 'J' or 'UJ'.

Documentation supporting the qualification of data [i.e., Forms 5 and 7 (groundwater), instrument run log and CCAL summary form (soil gas)] is presented in Attachment B.

- Laboratory Control Samples

The recovery percentage (%R) of chloroform was below the QC limit in the laboratory control sample associated with all groundwater and trip blank samples. The results for chloroform in these samples have been qualified 'J' or 'UJ', as listed on Table 1.

Documentation supporting the qualification of data (i.e., Form 3) is presented in Attachment B.

- Internal Standards

The recovery percentages of all internal standards (fluorobenzene, chlorobenzene-d5, and 1,4-dichlorobenzene-d4) were below the lower QC limits in the undiluted analysis of groundwater sample 623009-GW-5. The sample was re-analyzed at a dilution due to elevated levels of target compounds and showed acceptable recoveries for all of the internal standards. All compounds reported from the undiluted analysis of this sample have been qualified 'J' or 'UJ'. The results from the diluted analysis (i.e., those qualified 'D') did not require qualification except where noted otherwise in this report.

Documentation supporting the qualification of data (e.g. IS Form 8) is presented in Attachment B.

VI. SAMPLE RESULTS AND REPORTING

All quantitation limits (QLs) were reported in accordance with method requirements and were adjusted for sample size and dilution factors. Results below the QL were qualified 'J' by the laboratory. Results reported from a secondary dilution were qualified 'D' by the laboratory.

Groundwater sample 623009-GW-7 was initially analyzed undiluted. A further dilution of 25x was required due to elevated levels of chloroethane, 1,1-dichloroethane, 1,1,1-trichloroethane, and 1,1,2-trichloro-1,2,2-trifluoroethane.

Groundwater sample 623009-GW-5 was initially analyzed undiluted. A further dilution of 1000x was required due to elevated levels of 1,1,1-trichloroethane, ethylbenzene, total xylene, and 1,1,2-trichloro-1,2,2-trifluoroethane. Due to the high dilution level (i.e., 1000x) some compounds

that were present in the undiluted analysis at concentrations exceeding the range of calibration (i.e., qualified 'E' by the laboratory), were non-detect in the secondary dilution. The affected results for methylene chloride, 1,1-dichloroethane, and tetrachloroethene have been reported from the undiluted analysis and the 'E' qualifier applied by the laboratory was changed to 'J' during validation due to the calibration range exceedances.

In all soil gas samples the following compounds were analyzed as tentatively identified compounds (TICs) because the laboratory did not have sufficient time to obtain the necessary calibration standards, complete method detection limit (MDL) studies, and calibrate the instrument prior to the arrival of the samples: bromoform, methyl acetate, methylcyclohexane, isopropylbenzene, and 1,2-dibromo-3-chloropropane. However, the laboratory successfully performed MDL studies and calibrated the instrument for these compounds shortly after the samples were analyzed, and demonstrated that they were capable of quatitating the compounds at concentrations equivalent to the QLs reported on Table 3. Typically, QLs are not reported for TICs. As a conservative measure, the results for these compounds in all soil gas samples have been qualified 'NJ' or 'UJ'.

Soil gas samples 623009-V-08S and 623009-V-04S were not sampled for the specified time period (i.e., two hours) due to a malfunction of the pressure gauges provided by the laboratory. As a result, the canisters were not completely filled during collection and these samples were analyzed at dilutions resulting from the limited sample volume. The reported quantatitation limits reported represent the lowest achievable at the dilutions utilized.

Soil gas samples 623009-V-05S, 623009-V-06S, 623009-V-07S, and 20060727-FD-1 (623009-V-07S) were analyzed at an initial dilution of 5x. Further dilutions were required due to elevated levels of target compounds.

VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' (estimated), 'UJ' (estimated quantitation limit), and 'NJ' (presumptive presence of a compound /estimated concentration) are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: **Ann Marie Kropovitch, Chemist** **Date:** 10/24/06

Reviewed By: **James J. Lehnen, Senior Chemist** **Date:** 10/24/06

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D – The sample results are reported from a separate secondary dilution analysis.

NJ – Presumptive evidence of a compound at an estimated value.

TABLE 1

SUMMARY OF DATA QUALIFICATIONS
BOMAX MANUFACTURING – SITE # 6-23-009
NYSDEC W.A. # D004433-05

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
Groundwater sample 623009-GW-5 (dilution only)	VOCs	Analyzed outside of the 7-day (from collection) technical holding time for aromatic hydrocarbons in unpreserved samples.	Qualify detected results for ethyl benzene and total xylene 'J'.
Groundwater samples 623009-GW-1, 623009-GW-2, 623009-GW-5, 623009-GW-7, Trip Blank	VOCs	%R of chloroform < QC limit in LCS.	Qualify detected results 'J' and non-detected results 'UJ'.
Groundwater samples 623009-GW-1, 623009-GW-2, 623009-GW-7, Trip Blank	VOCs	CCAL %D > 20% for dichlorodifluoromethane, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene.	Qualify non-detected results 'UJ'.
Groundwater sample 623009-GW-5 (undiluted analysis only)	VOCs	%R of IS fluorobenzene, chlorobenzene-d5, and 1,4-dichlorobenzene-d4 < QC limit.	Qualify detected results 'J' and non-detected results 'UJ'.
Groundwater sample 623009-GW-5 (undiluted analysis only)	VOCs	Results exceeded calibration range for methylene chloride, 1,1-dichloroethane, and tetrachloroethene	Change 'E' qualifier applied by laboratory to 'J'.
Soil gas samples 623009-V-01S, 623009-V-02S, 623009-V-04S, 623009-V-08S	VOCs	Analyzed outside of the 7-day (from VTSR) technical holding time for polar VOCs [i.e., acetone, 2-butanone, 4-methyl-2-pentaone, (MIBK), and 2-hexanone].	Qualify detected results 'J' and non-detected results 'UJ'.
Soil gas samples 20060727-FD-1 (623009-V-07S), 623009-V-05S, 623009-V-06S, 623009-V-07S, 623009-V-09S, 623009-V-10S, 623009-V-11S	VOCs	CCAL %D > 25% for acetone.	Qualify detected results 'J' and non-detected results 'UJ'.
Soil gas samples 20060727-FD-1 (623009-V-7S), 623009-V-01S, 623009-V-02S, 623009-V-04S, 623009-V-05S, 623009-V-06S, 623009-V-07S, 623009-V-08S, 623009-V-09S, 623009-V-10S, 623009-V-11S	VOCs	Analyzed as TICs: bromoform, methyl acetate, methylcyclohexane, isopropylbenzene, and 1,2-dibromo-3-chloropropane.	Qualify detected results 'NJ' and non-detected results 'UJ'.

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID			GW-01	GW-02	GW-05	GW-07
Sample ID			623009-GW-1	623009-GW-2	623009-GW-5	623009-GW-7
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			07/25/06	07/25/06	07/25/06	07/25/06
Parameter	**Units**	*				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5	12	5 U	34,000 D	1,800 D
1,1,2,2-Tetrachloroethane	UG/L	5	5 U	5 U	5 UJ	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	5 U	5 U	31,000 D	430 D
1,1,2-Trichloroethane	UG/L	1	5 U	5 U	5 UJ	4 J
1,1-Dichloroethane	UG/L	5	4 J	5 U	2,500 J	2,700 D
1,1-Dichloroethene	UG/L	5	5 U	5 U	5 UJ	130
1,2,4-Trichlorobenzene	UG/L	5	5 UJ	5 UJ	5 UJ	5 UJ
1,2-Dibromo-3-chloropropane	UG/L	0.04	5 UJ	5 UJ	5 UJ	5 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	5 U	5 U	5 UJ	5 U
1,2-Dichlorobenzene	UG/L	3	5 U	5 U	5 UJ	5 U
1,2-Dichloroethane	UG/L	0.6	5 U	5 U	19 J	15
1,2-Dichloroethene (cis)	UG/L	5	5 U	5 U	5 J	8
1,2-Dichloroethene (trans)	UG/L	5	5 U	5 U	5 UJ	5 U
1,2-Dichloropropane	UG/L	1	5 U	5 U	5 UJ	5 U
1,3-Dichlorobenzene	UG/L	3	5 U	5 U	5 UJ	5 U
1,3-Dichloropropene (cis)	UG/L	0.4	5 U	5 U	5 UJ	5 U
1,3-Dichloropropene (trans)	UG/L	0.4	5 U	5 U	5 UJ	5 U
1,4-Dichlorobenzene	UG/L	3	5 U	5 U	5 UJ	5 U
2-Hexanone	UG/L	50	5 U	5 U	5 UJ	5 U
4-Methyl-2-pentanone	UG/L	50	5 U	5 U	5 UJ	5 U
Acetone	UG/L	50	5 U	5 U	5 UJ	5 U
Benzene	UG/L	1	5 U	5 U	1 J	5 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds

Made By AMK 10/24/06

Checked By JJL 10/24/06

Detection Limits shown are PQL

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[MATRIX] = 'WG'

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID			GW-01	GW-02	GW-05	GW-07
Sample ID			623009-GW-1	623009-GW-2	623009-GW-5	623009-GW-7
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			07/25/06	07/25/06	07/25/06	07/25/06
Parameter	**Units**	*				
Volatile Organic Compounds						
Bromodichloromethane	UG/L	50	5 U	5 U	5 UJ	5 U
Bromoform	UG/L	50	5 U	5 U	5 UJ	5 U
Bromomethane	UG/L	5	5 U	5 U	5 UJ	5 U
Carbon disulfide	UG/L	60	5 U	5 U	5 UJ	5 U
Carbon tetrachloride	UG/L	5	5 U	5 U	5 UJ	5 U
Chlorobenzene	UG/L	5	5 U	5 U	5 UJ	5 U
Chloroethane	UG/L	5	5 U	5 U	41 J	3,300 D
Chloroform	UG/L	7	5 UJ	5 UJ	5 UJ	5 UJ
Chloromethane	UG/L	5	5 U	5 U	5 UJ	5 U
Cyclohexane	UG/L	50	5 U	5 U	5 UJ	5 U
Dibromochloromethane	UG/L	50	5 U	5 U	5 UJ	5 UJ
Dichlorodifluoromethane	UG/L	5	5 UJ	5 UJ	5 UJ	5 UJ
Ethylbenzene	UG/L	5	5 U	5 U	2,500 DJ	5 U
Isopropylbenzene (Cumene)	UG/L	5	5 U	5 U	8 J	5 U
Methyl acetate	UG/L	50	5 U	5 U	5 UJ	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	5 U	5 U	24 J	62
Methyl tert-butyl ether	UG/L	10	5 U	5 U	5 UJ	5 U
Methylcyclohexane	UG/L	50	5 U	5 U	8 J	5 U
Methylene chloride	UG/L	5	5 U	5 U	520 J	5 U
Styrene	UG/L	5	5 U	5 U	5 UJ	5 U
Tetrachloroethene	UG/L	5	5 U	5 U	570 J	5 U
Toluene	UG/L	5	5 U	5 U	45 J	5

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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( ) Concentration Exceeds

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[MATRIX] = 'WG'

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID			GW-01	GW-02	GW-05	GW-07
Sample ID			623009-GW-1	623009-GW-2	623009-GW-5	623009-GW-7
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			07/25/06	07/25/06	07/25/06	07/25/06
Parameter	**Units**	*				
Volatile Organic Compounds						
Trichloroethene	UG/L	5	5 U	5 U	15 J	4 J
Trichlorofluoromethane	UG/L	5	5 U	5 U	5 UJ	5 U
Vinyl chloride	UG/L	2	5 U	5 U	5 UJ	5 U
Xylene (total)	UG/L	5	5 U	5 U	11,000 DJ	5 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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( ) Concentration Exceeds

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Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-01S	V-02S	V-04S	V-05S	V-06S
Sample ID		623009-V-01S	623009-V-02S	623009-V-04S	623009-V-06S	623009-V-06S
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/26/06	07/26/06	07/26/06	07/27/06	07/27/06
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	320	0.6	300	67,000	81
1,1,2,2-Tetrachloroethane	UG/M3	0.6 U	0.6 U	5.6 U	7.0 U	7.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	4.8	0.9	6.0 U	350,000	740
1,1,2-Trichloroethane	UG/M3	0.5 U	0.5 U	4.4 U	5.5 U	5.5 U
1,1-Dichloroethane	UG/M3	80	0.4 U	3.7	2,800	880
1,1-Dichloroethene	UG/M3	0.4 U	0.4 U	3.2 U	1,300	740
1,2,4-Trichlorobenzene	UG/M3	0.6 U	0.6 U	6.0 U	7.5 U	7.5 U
1,2-Dibromo-3-chloropropane	UG/M3	0.51 UJ	0.51 UJ	5.1 UJ	6.4 UJ	6.4 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	0.6 U	0.6 U	6.0 U	7.5 U	7.5 U
1,2-Dichlorobenzene	UG/M3	0.5 U	0.5 U	4.8 U	6.0 U	6.0 U
1,2-Dichloroethane	UG/M3	0.4 U	0.4 U	3.2 U	4.0 U	4.0 U
1,2-Dichloroethene (cis)	UG/M3	0.4 U	0.4 U	3.2 U	6.5	1,800
1,2-Dichloroethene (trans)	UG/M3	0.4 U	0.4 U	3.2 U	4.0 U	67
1,2-Dichloropropane	UG/M3	0.4 U	0.4 U	3.6 U	4.5 U	4.5 U
1,3-Dichlorobenzene	UG/M3	0.5 U	0.5 U	4.8 U	6.0 U	6.0 U
1,3-Dichloropropene (cis)	UG/M3	0.4 U	0.4 U	3.6 U	4.5 U	4.5 U
1,3-Dichloropropene (trans)	UG/M3	0.4 U	0.4 U	3.6 U	4.5 U	4.5 U
1,4-Dichlorobenzene	UG/M3	0.5 U	0.5 U	4.8 U	6.0 U	6.0 U
2-Hexanone	UG/M3	0.4 UJ	0.4 UJ	3.2 UJ	4.0 U	4.0 U
4-Methyl-2-pentanone	UG/M3	0.4 UJ	0.4 UJ	3.2 UJ	4.0 U	4.0 U
Acetone	UG/M3	92 J	180 J	2.0 UJ	2.5 UJ	2.5 UJ
Benzene	UG/M3	800	630	44	1,100	70
Bromodichloromethane	UG/M3	0.6 U	0.6 U	5.2 U	6.5 U	6.5 U

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[MATRIX] = 'GS'

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-01S	V-02S	V-04S	V-05S	V-06S
Sample ID		623009-V-01S	623009-V-02S	623009-V-04S	623009-V-05S	623009-V-06S
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/26/06	07/26/06	07/26/06	07/27/06	07/27/06
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/M3	1.0 UJ	1.0 UJ	8.0 UJ	10 UJ	10 UJ
Bromomethane	UG/M3	0.4 U	0.4 U	3.2 U	4.0 U	4.0 U
Carbon disulfide	UG/M3	68	98	20	3.0 U	23
Carbon tetrachloride	UG/M3	0.6 U	0.6 U	5.2 U	6.5 U	6.5 U
Chlorobenzene	UG/M3	0.4 U	0.4 U	3.6 U	9.9	4.5 U
Chloroethane	UG/M3	0.2 U	0.2 U	2.0 U	42	16,000
Chloroform	UG/M3	7.3	3.9	4.0 U	5.0 U	5.0 U
Chloromethane	UG/M3	13	0.6	35	2.0 U	2.0 U
Cyclohexane	UG/M3	10	0.3 U	2.8 U	28	240
Dibromochloromethane	UG/M3	0.7 U	0.7 U	6.8 U	8.5 U	8.5 U
Dichlorodifluoromethane	UG/M3	0.5	0.4 U	4.0 U	5.0 U	5.0 U
Ethylbenzene	UG/M3	300	460	54	750	220
Isopropylbenzene (Cumene)	UG/M3	2.6 NJ	3.1 NJ	5.1 UJ	14 NJ	6.4 UJ
Methyl acetate	UG/M3	0.51 UJ	0.51 UJ	5.1 UJ	6.4 UJ	6.4 UJ
Methyl ethyl ketone (2-Butanone)	UG/M3	6.7 J	20 J	9.4 J	9.4	5.5
Methyl tert-butyl ether	UG/M3	3.6	6.5	2.8 U	18	3.5 U
Methylcyclohexane	UG/M3	24 NJ	8.2 NJ	21 NJ	167 NJ	780 NJ
Methylene chloride	UG/M3	0.3 U	1.4	11	230	3.5 U
Styrene	UG/M3	2.0	1.3	3.6 U	4.5 U	4.5 U
Tetrachloroethene	UG/M3	3.0	1.5	5.6 U	190	14
Toluene	UG/M3	2,800	3,000	270	4,700	690
Trichloroethene	UG/M3	0.5 U	0.5 U	4.4 U	10	61
Trichlorofluoromethane	UG/M3	0.7	1.4	4.4 U	5.5 U	5.5 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-01S	V-02S	V-04S	V-05S	V-06S
Sample ID		623009-V-01S	623009-V-02S	623009-V-04S	623009-V-05S	623009-V-06S
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/26/06	07/26/06	07/26/06	07/27/06	07/27/06
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/M3	0.2 U	0.2 U	2.0 U	2.5 U	590
Xylene (total)	UG/M3	650	900	138	1,020	560

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-07S	V-07S	V-08S	V-09S	V-10S
Sample ID		20060727-FD-1	623009-V-07S	623009-V-08S	623009-V-09S	623009-V-10S
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/27/06	07/27/06	07/27/06	07/26/06	07/26/06
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3	36,000	43,000	8.8 U	1,400	830
1,1,2,2-Tetrachloroethane	UG/M3	7.0 U	7.0 U	12 U	0.6 U	0.6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	120,000	150,000	12 U	0.6 U	15
1,1,2-Trichloroethane	UG/M3	21	18	8.8 U	0.5 U	0.5 U
1,1-Dichloroethane	UG/M3	3,700	4,900	6.4 U	230	340
1,1-Dichloroethene	UG/M3	1,400	1,900	6.4 U	0.4 U	0.4 U
1,2,4-Trichlorobenzene	UG/M3	7.5 U	7.5 U	12 U	0.6 U	0.6 U
1,2-Dibromo-3-chloropropane	UG/M3	6.4 UJ	6.4 UJ	10.2 UJ	0.51 UJ	0.51 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	7.5 U	7.5 U	12 U	0.6 U	0.6 U
1,2-Dichlorobenzene	UG/M3	6.0 U	6.0 U	9.6 U	0.6	0.5
1,2-Dichloroethane	UG/M3	5.5	4.0 U	6.4 U	0.4 U	0.4 U
1,2-Dichloroethene (cis)	UG/M3	170	150	6.4 U	0.4 U	0.9
1,2-Dichloroethene (trans)	UG/M3	4.0 U	4.0 U	6.4 U	0.4 U	0.4 U
1,2-Dichloropropane	UG/M3	4.5 U	4.5 U	7.2 U	0.4 U	0.4 U
1,3-Dichlorobenzene	UG/M3	6.0 U	6.0 U	9.6 U	0.5 U	0.5 U
1,3-Dichloropropene (cis)	UG/M3	4.5 U	4.5 U	7.2 U	0.4 U	0.4 U
1,3-Dichloropropene (trans)	UG/M3	4.5 U	4.5 U	7.2 U	0.4 U	0.4 U
1,4-Dichlorobenzene	UG/M3	6.0 U	6.0 U	9.6 U	0.5 U	0.5 U
2-Hexanone	UG/M3	4.0 U	4.0 U	6.4 UJ	0.4 U	0.4 U
4-Methyl-2-pentanone	UG/M3	4.0 U	4.0 U	6.4 UJ	0.4 U	0.4 U
Acetone	UG/M3	2.5 UJ	2.5 UJ	89 J	0.2 UJ	90 J
Benzene	UG/M3	360	310	29	12	18
Bromodichloromethane	UG/M3	6.5 U	6.5 U	11 U	0.6 U	0.6 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-07S	V-07S	V-08S	V-09S	V-10S
Sample ID		20060727-FD-1	623009-V-07S	623009-V-08S	623009-V-09S	623009-V-10S
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/27/06	07/27/06	07/27/06	07/26/06	07/26/06
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Bromoform	UG/M3	10 UJ	10 UJ	16 UJ	1.0 UJ	1.0 UJ
Bromomethane	UG/M3	4.0 U	4.0 U	6.4 U	0.4 U	0.4 U
Carbon disulfide	UG/M3	3.0 U	3.0 U	4.8 U	0.3 U	10
Carbon tetrachloride	UG/M3	6.5 U	6.5 U	11. U	0.6 U	0.6 U
Chlorobenzene	UG/M3	4.5 U	4.5 U	7.2 U	0.4 U	0.8
Chloroethane	UG/M3	420	400	4.0 U	0.2 U	52
Chloroform	UG/M3	7.5	6.8	8.0 U	0.4 U	1.5
Chloromethane	UG/M3	2.0 U	2.0 U	3.3	0.2 U	0.2 U
Cyclohexane	UG/M3	17	3.5 U	5.6 U	0.3 U	0.3 U
Dibromochloromethane	UG/M3	8.5 U	8.5 U	14 U	0.7 U	0.7 U
Dichlorodifluoromethane	UG/M3	7.7	5.0 U	8.0 U	0.4 U	0.4 U
Ethylbenzene	UG/M3	180	150	15	67	86
Isopropylbenzene (Cumene)	UG/M3	6.4 UJ	6.4 UJ	10.2 UJ	2.6 NJ	3.2 NJ
Methyl acetate	UG/M3	6.4 UJ	6.4 UJ	10.2 UJ	0.51 UJ	0.51 UJ
Methyl ethyl ketone (2-Butanone)	UG/M3	4.6	3.0 U	11 J	0.3 U	7.5
Methyl tert-butyl ether	UG/M3	3.5 U	3.5 U	5.6 U	0.3 U	0.3 U
Methylcyclohexane	UG/M3	34 NJ	30 NJ	10.2 UJ	2.1 NJ	8.9 NJ
Methylene chloride	UG/M3	3.5 U	3.5 U	21	0.3 U	1.5
Styrene	UG/M3	4.5 U	4.5 U	7.2 U	3.1	4.9
Tetrachloroethene	UG/M3	1,800	1,600	12 U	13	9.2
Toluene	UG/M3	1,500	1,400	110	210	290
Trichloroethene	UG/M3	490	430	8.8 U	1.2	1.6
Trichlorofluoromethane	UG/M3	5.5 U	5.5 U	8.8 U	1.8	0.5 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-07S	V-07S	V-08S	V-09S	V-10S
Sample ID		20060727-FD-1	623009-V-07S	623009-V-08S	623009-V-09S	623009-V-10S
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/27/06	07/27/06	07/27/06	07/26/06	07/26/06
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
Vinyl chloride	UG/M3	2.5 U	2.5 U	4.0 U	0.2 U	0.2 U
Xylene (total)	UG/M3	420	360	40	227	280

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

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[MATRIX] = 'GS'

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-11S
Sample ID		623009-V-11S
Matrix		Soil Gas
Depth Interval (ft)		-
Date Sampled		07/26/06
Parameter	**Units**	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/M3	21
1,1,2,2-Tetrachloroethane	UG/M3	0.6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.6 U
1,1,2-Trichloroethane	UG/M3	0.5 U
1,1-Dichloroethane	UG/M3	0.4 U
1,1-Dichloroethene	UG/M3	0.4 U
1,2,4-Trichlorobenzene	UG/M3	0.6 U
1,2-Dibromo-3-chloropropane	UG/M3	0.51 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	0.6 U
1,2-Dichlorobenzene	UG/M3	0.5 U
1,2-Dichloroethane	UG/M3	0.4 U
1,2-Dichloroethene (cis)	UG/M3	0.4 U
1,2-Dichloroethene (trans)	UG/M3	0.4 U
1,2-Dichloropropane	UG/M3	0.4 U
1,3-Dichlorobenzene	UG/M3	0.5 U
1,3-Dichloropropene (cis)	UG/M3	0.4 U
1,3-Dichloropropene (trans)	UG/M3	0.4 U
1,4-Dichlorobenzene	UG/M3	0.5 U
2-Hexanone	UG/M3	0.4 U
4-Methyl-2-pentanone	UG/M3	0.4 U
Acetone	UG/M3	0.2 UJ
Benzene	UG/M3	77
Bromodichloromethane	UG/M3	0.6

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-11S
Sample ID		623009-V-11S
Matrix		Soil Gas
Depth Interval (ft)		-
Date Sampled		07/26/06
Parameter	**Units**	
Volatile Organic Compounds		
Bromoform	UG/M3	1.0 UJ
Bromomethane	UG/M3	0.4 U
Carbon disulfide	UG/M3	0.3 U
Carbon tetrachloride	UG/M3	0.6 U
Chlorobenzene	UG/M3	0.4 U
Chloroethane	UG/M3	0.2 U
Chloroform	UG/M3	0.4 U
Chloromethane	UG/M3	0.2 U
Cyclohexane	UG/M3	3.2
Dibromochloromethane	UG/M3	0.7 U
Dichlorodifluoromethane	UG/M3	0.4 U
Ethylbenzene	UG/M3	52
Isopropylbenzene (Cumene)	UG/M3	0.70 NJ
Methyl acetate	UG/M3	0.51 UJ
Methyl ethyl ketone (2-Butanone)	UG/M3	0.3 U
Methyl tert-butyl ether	UG/M3	0.3 U
Methylcyclohexane	UG/M3	5.4 NJ
Methylene chloride	UG/M3	0.3 U
Styrene	UG/M3	0.5
Tetrachloroethene	UG/M3	0.6 U
Toluene	UG/M3	460
Trichloroethene	UG/M3	0.5 U
Trichlorofluoromethane	UG/M3	0.5 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 3
VALIDATED SOIL GAS SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		V-11S
Sample ID		623009-V-11S
Matrix		Soil Gas
Depth Interval (ft)		-
Date Sampled		07/26/06
Parameter	Units	
Volatile Organic Compounds		
Vinyl chloride	UG/M3	0.2 U
Xylene (total)	UG/M3	28

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		FIELDQC
Sample ID		TRIP BLANK
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		07/25/06
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	5 U
1,1,2,2-Tetrachloroethane	UG/L	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5 U
1,1,2-Trichloroethane	UG/L	5 U
1,1-Dichloroethane	UG/L	5 U
1,1-Dichloroethene	UG/L	5 U
1,2,4-Trichlorobenzene	UG/L	5 UJ
1,2-Dibromo-3-chloropropane	UG/L	5 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5 U
1,2-Dichlorobenzene	UG/L	5 U
1,2-Dichloroethane	UG/L	5 U
1,2-Dichloroethene (cis)	UG/L	5 U
1,2-Dichloroethene (trans)	UG/L	5 U
1,2-Dichloropropane	UG/L	5 U
1,3-Dichlorobenzene	UG/L	5 U
1,3-Dichloropropene (cis)	UG/L	5 U
1,3-Dichloropropene (trans)	UG/L	5 U
1,4-Dichlorobenzene	UG/L	5 U
2-Hexanone	UG/L	5 U
4-Methyl-2-pentanone	UG/L	5 U
Acetone	UG/L	5 U
Benzene	UG/L	5 U
Bromodichloromethane	UG/L	5 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		FIELDQC
Sample ID		TRIP BLANK
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		07/25/06
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
Bromoform	UG/L	5 U
Bromomethane	UG/L	5 U
Carbon disulfide	UG/L	5 U
Carbon tetrachloride	UG/L	5 U
Chlorobenzene	UG/L	5 U
Chloroethane	UG/L	5 U
Chloroform	UG/L	2 J
Chloromethane	UG/L	5 U
Cyclohexane	UG/L	5 U
Dibromochloromethane	UG/L	5 U
Dichlorodifluoromethane	UG/L	5 UJ
Ethylbenzene	UG/L	5 U
Isopropylbenzene (Cumene)	UG/L	5 U
Methyl acetate	UG/L	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	5 U
Methyl tert-butyl ether	UG/L	5 U
Methylcyclohexane	UG/L	5 U
Methylene chloride	UG/L	5 U
Styrene	UG/L	5 U
Tetrachloroethene	UG/L	5 U
Toluene	UG/L	5 U
Trichloroethene	UG/L	5 U
Trichlorofluoromethane	UG/L	5 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
BOMAX MANUFACTURING SITE NO. 6-23-009
NYSDEC W.A. D004433-05

Location ID		FIELDQC
Sample ID		TRIP BLANK
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		07/25/06
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
Vinyl chloride	UG/L	5 U
Xylene (total)	UG/L	5 U

Flags assigned during chemistry validation are shown.

Made By AMK 10/24/06
Checked By JJL 10/24/06

Detection Limits shown are PQL

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[MATRIX] = 'WQ'

ATTACHMENT A
VALIDATED FORM 1's

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JOHN BOYD
URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

Contract: -
Purchase Order No.: -

8/16/2006
Page 36 of 56
Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-01S
Sample ID : 06B24288
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	92.	08/07/06	WSD	0.2			
Benzene	ug/m3	800	08/07/06	WSD	0.2			
Bromodichloromethane	ug/m3	ND	08/07/06	WSD	0.6			
Bromomethane	ug/m3	ND	08/07/06	WSD	0.4			
2-Butanone (MEK)	ug/m3	6.7	08/07/06	WSD	0.2			
Carbon Disulfide	ug/m3	68.	08/07/06	WSD	0.2			
Carbon Tetrachloride	ug/m3	ND	08/07/06	WSD	0.6			
Chlorobenzene	ug/m3	ND	08/07/06	WSD	0.4			
Chlorodibromomethane	ug/m3	ND	08/07/06	WSD	0.7			
Chloroethane	ug/m3	ND	08/07/06	WSD	0.2			
Chloroform	ug/m3	7.3	08/07/06	WSD	0.4			
Chloromethane	ug/m3	13.	08/07/06	WSD	0.2			
Cyclohexane	ug/m3	10.	08/07/06	WSD	0.3			
1,2-Dibromoethane	ug/m3	ND	08/07/06	WSD	0.6			
1,2-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	0.5			
1,3-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	0.5			
1,4-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	0.5			
Dichlorodifluoromethane	ug/m3	0.5	08/07/06	WSD	0.4			
1,1-Dichloroethane	ug/m3	80.	08/07/06	WSD	0.3			
1,2-Dichloroethane	ug/m3	ND	08/07/06	WSD	0.4			
1,1-Dichloroethylene	ug/m3	ND	08/07/06	WSD	0.4			
cis-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	0.4			
t-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	0.4			
1,2-Dichloropropane	ug/m3	ND	08/07/06	WSD	0.4			
cis-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	0.4			
trans-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	0.4			
Ethylbenzene	ug/m3	300	08/07/06	WSD	0.4			
2-Hexanone	ug/m3	ND	08/07/06	WSD	0.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	3.6	08/07/06	WSD	0.3			
Methylene Chloride	ug/m3	0.3	08/07/06	WSD	0.3			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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BUFFALO, NY 14203

Contract: -
Purchase Order No.: -

8/16/2006

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-01S
Sample ID : 06B24288
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/07/06	WSD	0.4			
Styrene	ug/m3	2.0	08/07/06	WSD	0.4			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/07/06	WSD	0.6			
Tetrachloroethylene	ug/m3	3.0	08/07/06	WSD	0.6			
Toluene	ug/m3	2800	08/07/06	WSD	0.3			
1,2,4-Trichlorobenzene	ug/m3	ND	08/07/06	WSD	0.6			
1,1,1-Trichloroethane	ug/m3	320	08/07/06	WSD	0.4			
1,1,2-Trichloroethane	ug/m3	ND	08/07/06	WSD	0.5			
Trichloroethylene	ug/m3	ND	08/07/06	WSD	0.5			
Trichlorofluoromethane	ug/m3	0.7	08/07/06	WSD	0.4			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	4.8	08/07/06	WSD	0.6			
Vinyl Chloride	ug/m3	ND	08/07/06	WSD	0.2			
m/p-Xylene	ug/m3	420	08/07/06	WSD	0.4			
o-Xylene	ug/m3	230	08/07/06	WSD	0.4			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
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8/16/2006
Page 2 of 56
Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-01S

Sample ID : 06B24288
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			08/07/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND	0.1	1.
Methyl Acetate	ND	ND	0.17	0.51
Methylcyclohexane	6.0*	24*	0.13	0.51
Isopropylbenzene	0.53	2.6	0.10	0.51
1,2-Dibromo-3-Chloropropane	ND	ND	0.05	0.51

* = Quantitated over Verified Linear Calibration Range
ND= Not Detected

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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8/16/2006
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-02S
Sample ID : 06B24289
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	180	08/07/06	WSD	0.2			
Benzene	ug/m3	630	08/07/06	WSD	0.2			
Bromodichloromethane	ug/m3	ND	08/07/06	WSD	0.6			
Bromomethane	ug/m3	ND	08/07/06	WSD	0.4			
2-Butanone (MEK)	ug/m3	20.	08/07/06	WSD	0.2			
Carbon Disulfide	ug/m3	98.	08/07/06	WSD	0.2			
Carbon Tetrachloride	ug/m3	ND	08/07/06	WSD	0.6			
Chlorobenzene	ug/m3	ND	08/07/06	WSD	0.4			
Chlorodibromomethane	ug/m3	ND	08/07/06	WSD	0.7			
Chloroethane	ug/m3	ND	08/07/06	WSD	0.2			
Chloroform	ug/m3	3.9	08/07/06	WSD	0.4			
Chloromethane	ug/m3	0.6	08/07/06	WSD	0.2			
Cyclohexane	ug/m3	ND	08/07/06	WSD	0.3			
1,2-Dibromoethane	ug/m3	ND	08/07/06	WSD	0.6			
1,2-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	0.5			
1,3-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	0.5			
1,4-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	0.5			
Dichlorodifluoromethane	ug/m3	ND	08/07/06	WSD	0.4			
1,1-Dichloroethane	ug/m3	ND	08/07/06	WSD	0.4			
1,2-Dichloroethane	ug/m3	ND	08/07/06	WSD	0.4			
1,1-Dichloroethylene	ug/m3	ND	08/07/06	WSD	0.4			
cis-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	0.4			
t-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	0.4			
1,2-Dichloropropane	ug/m3	ND	08/07/06	WSD	0.4			
cis-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	0.4			
trans-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	0.4			
Ethylbenzene	ug/m3	460	08/07/06	WSD	0.4			
2-Hexanone	ug/m3	ND	08/07/06	WSD	0.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	6.5	08/07/06	WSD	0.3			
Methylene Chloride	ug/m3	1.4	08/07/06	WSD	0.3			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Page 39 of 56

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-02S
Sample ID : 06B24289
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND U.J	08/07/06	WSD	0.4			
Styrene	ug/m3	1.3	08/07/06	WSD	0.4			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/07/06	WSD	0.6			
Tetrachloroethylene	ug/m3	1.5	08/07/06	WSD	0.6			
Toluene	ug/m3	3000	08/07/06	WSD	0.3			
1,2,4-Trichlorobenzene	ug/m3	ND	08/07/06	WSD	0.6			
1,1,1-Trichloroethane	ug/m3	0.6	08/07/06	WSD	0.4			
1,1,2-Trichloroethane	ug/m3	ND	08/07/06	WSD	0.5			
Trichloroethylene	ug/m3	ND	08/07/06	WSD	0.5			
Trichlorofluoromethane	ug/m3	1.4	08/07/06	WSD	0.4			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.9	08/07/06	WSD	0.6			
Vinyl Chloride	ug/m3	ND	08/07/06	WSD	0.2			
m/p-Xylene	ug/m3	590	08/07/06	WSD	0.4			
o-Xylene	ug/m3	310	08/07/06	WSD	0.4			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.: -

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-02S

Sample ID : 06B24289

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			08/07/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND	0.1	1.
Methyl Acetate	ND	ND	0.17	0.51
Methylcyclohexane	2.0	8.2	0.13	0.51
Isopropylbenzene	0.62	3.1	0.10	0.51
1,2-Dibromo-3-Chloropropane	ND	ND	0.05	0.51

ND= Not Detected

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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* = See end of report for comments and notes applying to this sample

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-04S

Sample ID : 06B24290

Sampled : 7/26/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND	08/07/06	WSD	2.0			
Benzene	ug/m3	44.	08/07/06	WSD	2.4			
Bromodichloromethane	ug/m3	ND	08/07/06	WSD	5.2			
Bromomethane	ug/m3	ND	08/07/06	WSD	3.2			
2-Butanone (MEK)	ug/m3	9.4	08/07/06	WSD	2.4			
Carbon Disulfide	ug/m3	20.	08/07/06	WSD	2.4			
Carbon Tetrachloride	ug/m3	ND	08/07/06	WSD	5.2			
Chlorobenzene	ug/m3	ND	08/07/06	WSD	3.6			
Chlorodibromomethane	ug/m3	ND	08/07/06	WSD	6.8			
Chloroethane	ug/m3	ND	08/07/06	WSD	2.0			
Chloroform	ug/m3	ND	08/07/06	WSD	4.0			
Chloromethane	ug/m3	35.	08/07/06	WSD	1.6			
Cyclohexane	ug/m3	ND	08/07/06	WSD	2.8			
1,2-Dibromoethane	ug/m3	ND	08/07/06	WSD	6.0			
1,2-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	4.8			
1,3-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	4.8			
1,4-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	4.8			
Dichlorodifluoromethane	ug/m3	ND	08/07/06	WSD	4.0			
1,1-Dichloroethane	ug/m3	3.7	08/07/06	WSD	3.2			
1,2-Dichloroethane	ug/m3	ND	08/07/06	WSD	3.2			
1,1-Dichloroethylene	ug/m3	ND	08/07/06	WSD	3.2			
cis-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	3.2			
t-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	3.2			
1,2-Dichloropropane	ug/m3	ND	08/07/06	WSD	3.6			
cis-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	3.6			
trans-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	3.6			
Ethylbenzene	ug/m3	54.	08/07/06	WSD	3.6			
2-Hexanone	ug/m3	ND	08/07/06	WSD	3.2			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/07/06	WSD	2.8			
Methylene Chloride	ug/m3	11.	08/07/06	WSD	2.8			

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-04S

Sample ID : 06B24290

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/07/06	WSD	3.2			
Styrene	ug/m3	ND	08/07/06	WSD	3.6			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/07/06	WSD	5.6			
Tetrachloroethylene	ug/m3	ND	08/07/06	WSD	5.6			
Toluene	ug/m3	270	08/07/06	WSD	3.2			
1,2,4-Trichlorobenzene	ug/m3	ND	08/07/06	WSD	6.0			
1,1,1-Trichloroethane	ug/m3	300	08/07/06	WSD	4.4			
1,1,2-Trichloroethane	ug/m3	ND	08/07/06	WSD	4.4			
Trichloroethylene	ug/m3	ND	08/07/06	WSD	4.4			
Trichlorofluoromethane	ug/m3	ND	08/07/06	WSD	4.4			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	08/07/06	WSD	6.0			
Vinyl Chloride	ug/m3	ND	08/07/06	WSD	2.0			
m/p-Xylene	ug/m3	87.	08/07/06	WSD	3.6			
o-Xylene	ug/m3	51.	08/07/06	WSD	3.6			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-04S
Sample ID : 06B24290
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			08/07/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND	0.8	8.
Methyl Acetate	ND	ND	1.6	5.1
Methylcyclohexane	5.1	21	1.3	5.1
Isopropylbenzene	ND	ND	1.0	5.1
1,2-Dibromo-3-Chloropropane	ND	ND	0.47	5.1

ND= Not Detected

8/21/06

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-05S

Sample ID : 06B24293

Sampled : 7/27/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND	08/04/06	WSD	2.5			
Benzene	ug/m3	1100	08/04/06	WSD	3.0			
Bromodichloromethane	ug/m3	ND	08/04/06	WSD	6.5			
Bromomethane	ug/m3	ND	08/04/06	WSD	4.0			
2-Butanone (MEK)	ug/m3	9.4	08/04/06	WSD	3.0			
Carbon Disulfide	ug/m3	ND	08/04/06	WSD	3.0			
Carbon Tetrachloride	ug/m3	ND	08/04/06	WSD	6.5			
Chlorobenzene	ug/m3	9.9	08/04/06	WSD	4.5			
Chlorodibromomethane	ug/m3	ND	08/04/06	WSD	8.5			
Chloroethane	ug/m3	42.	08/04/06	WSD	2.5			
Chloroform	ug/m3	ND	08/04/06	WSD	5.0			
Chloromethane	ug/m3	ND	08/04/06	WSD	2.0			
Cyclohexane	ug/m3	28.	08/04/06	WSD	3.5			
1,2-Dibromoethane	ug/m3	ND	08/04/06	WSD	7.5			
1,2-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
1,3-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
1,4-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
Dichlorodifluoromethane	ug/m3	ND	08/04/06	WSD	5.0			
1,1-Dichloroethane	ug/m3	2800	08/04/06	WSD	4.0			
1,2-Dichloroethane	ug/m3	ND	08/04/06	WSD	4.0			
1,1-Dichloroethylene	ug/m3	1300	08/04/06	WSD	4.0			
cis-1,2-Dichloroethylene	ug/m3	6.5	08/04/06	WSD	4.0			
t-1,2-Dichloroethylene	ug/m3	ND	08/04/06	WSD	4.0			
1,2-Dichloropropane	ug/m3	ND	08/04/06	WSD	4.5			
cis-1,3-Dichloropropene	ug/m3	ND	08/04/06	WSD	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	08/04/06	WSD	4.5			
Ethylbenzene	ug/m3	750	08/04/06	WSD	4.5			
2-Hexanone	ug/m3	ND	08/04/06	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	18.	08/04/06	WSD	3.5			
Methylene Chloride	ug/m3	230	08/04/06	WSD	3.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-05S

Sample ID : 06B24293

Sampled : 7/27/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/04/06	WSD	4.0			
Styrene	ug/m3	ND	08/04/06	WSD	4.5			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/04/06	WSD	7.0			
Tetrachloroethylene	ug/m3	190	08/04/06	WSD	7.0			
Toluene	ug/m3	4700	08/04/06	WSD	4.0			
1,2,4-Trichlorobenzene	ug/m3	ND	08/04/06	WSD	7.5			
1,1,1-Trichloroethane	ug/m3	67000	08/04/06	WSD	5.5			
1,1,2-Trichloroethane	ug/m3	ND	08/04/06	WSD	5.5			
Trichloroethylene	ug/m3	10.	08/04/06	WSD	5.5			
Trichlorofluoromethane	ug/m3	ND	08/04/06	WSD	5.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	350000	08/04/06	WSD	7.5			
Vinyl Chloride	ug/m3	ND	08/04/06	WSD	2.5			
m/p-Xylene	ug/m3	660	08/04/06	WSD	4.5			
o-Xylene	ug/m3	360	08/04/06	WSD	4.5			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-05S

Sample ID : 06B24293

Sampled : 7/27/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			08/04/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND	1.	10.
Methyl Acetate	ND	ND	2.1	6.4
Methylcyclohexane	41*	167*	1.6	6.4
Isopropylbenzene	2.9	14	1.3	6.4
1,2-Dibromo-3-Chloropropane	ND	ND	0.59	6.4

* = Quantitated over verified linear calibration range
ND= Not Detected

8/16/06

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-06S
Sample ID : 06B24291
Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND	08/03/06	WSD	2.5			
Benzene	ug/m3	70.	08/03/06	WSD	3.0			
Bromodichloromethane	ug/m3	ND	08/03/06	WSD	6.5			
Bromomethane	ug/m3	ND	08/03/06	WSD	4.0			
2-Butanone (MEK)	ug/m3	5.5	08/03/06	WSD	3.0			
Carbon Disulfide	ug/m3	23.	08/03/06	WSD	3.0			
Carbon Tetrachloride	ug/m3	ND	08/03/06	WSD	6.5			
Chlorobenzene	ug/m3	ND	08/03/06	WSD	4.5			
Chlorodibromomethane	ug/m3	ND	08/03/06	WSD	8.5			
Chloroethane	ug/m3	16000	08/03/06	WSD	2.5			
Chloroform	ug/m3	ND	08/03/06	WSD	5.0			
Chloromethane	ug/m3	ND	08/03/06	WSD	2.0			
Cyclohexane	ug/m3	240	08/03/06	WSD	3.5			
1,2-Dibromoethane	ug/m3	ND	08/03/06	WSD	7.5			
1,2-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	6.0			
1,3-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	6.0			
1,4-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	6.0			
Dichlorodifluoromethane	ug/m3	ND	08/03/06	WSD	5.0			
1,1-Dichloroethane	ug/m3	880	08/03/06	WSD	4.0			
1,2-Dichloroethane	ug/m3	ND	08/03/06	WSD	4.0			
1,1-Dichloroethylene	ug/m3	740	08/03/06	WSD	4.0			
cis-1,2-Dichloroethylene	ug/m3	1800	08/03/06	WSD	4.0			
t-1,2-Dichloroethylene	ug/m3	67.	08/03/06	WSD	4.0			
1,2-Dichloropropane	ug/m3	ND	08/03/06	WSD	4.5			
cis-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	4.5			
Ethylbenzene	ug/m3	220	08/03/06	WSD	4.5			
2-Hexanone	ug/m3	ND	08/03/06	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/03/06	WSD	3.5			
Methylene Chloride	ug/m3	ND	08/03/06	WSD	3.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-06S
Sample ID : 06B24291
Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/03/06	WSD	4.0			
Styrene	ug/m3	ND	08/03/06	WSD	4.5			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/03/06	WSD	7.0			
Tetrachloroethylene	ug/m3	14.	08/03/06	WSD	7.0			
Toluene	ug/m3	690	08/03/06	WSD	4.0			
1,2,4-Trichlorobenzene	ug/m3	ND	08/03/06	WSD	7.5			
1,1,1-Trichloroethane	ug/m3	81.	08/03/06	WSD	5.5			
1,1,2-Trichloroethane	ug/m3	ND	08/03/06	WSD	5.5			
Trichloroethylene	ug/m3	61.	08/03/06	WSD	5.5			
Trichlorofluoromethane	ug/m3	ND	08/03/06	WSD	5.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	740	08/03/06	WSD	7.5			
Vinyl Chloride	ug/m3	590	08/03/06	WSD	2.5			
m/p-Xylene	ug/m3	300	08/03/06	WSD	4.5			
o-Xylene	ug/m3	260	08/03/06	WSD	4.5			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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BUFFALO, NY 14203

Contract: -
Purchase Order No.: -

8/16/2006
Page 6 of 56
Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-06S
Sample ID : 06B24291
Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			08/03/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND UJ	1.0	10.
Methyl Acetate	ND	ND ↓	2.2	6.4
Methylcyclohexane	194*	780* J	1.6	6.4
Isopropylbenzene	ND	ND UJ	1.3	6.4
1,2-Dibromo-3-Chloropropane	ND	ND ↓	0.59	6.4

* = Quantitated over verified linear calibration range
ND= Not Detected

8/21/06

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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8/16/2006
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-07S
Sample ID : 06B24292
Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND	08/04/06	WSD	2.5			
Benzene	ug/m3	310	08/04/06	WSD	3.0			
Bromodichloromethane	ug/m3	ND	08/04/06	WSD	6.5			
Bromomethane	ug/m3	ND	08/04/06	WSD	4.0			
2-Butanone (MEK)	ug/m3	ND	08/04/06	WSD	3.0			
Carbon Disulfide	ug/m3	ND	08/04/06	WSD	3.0			
Carbon Tetrachloride	ug/m3	ND	08/04/06	WSD	6.5			
Chlorobenzene	ug/m3	ND	08/04/06	WSD	4.5			
Chlorodibromomethane	ug/m3	ND	08/04/06	WSD	8.5			
Chloroethane	ug/m3	400	08/04/06	WSD	2.5			
Chloroform	ug/m3	6.8	08/04/06	WSD	5.0			
Chloromethane	ug/m3	ND	08/04/06	WSD	2.0			
Cyclohexane	ug/m3	ND	08/04/06	WSD	3.5			
1,2-Dibromoethane	ug/m3	ND	08/04/06	WSD	7.5			
1,2-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
1,3-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
1,4-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
Dichlorodifluoromethane	ug/m3	ND	08/04/06	WSD	5.0			
1,1-Dichloroethane	ug/m3	4900	08/04/06	WSD	4.0			
1,2-Dichloroethane	ug/m3	ND	08/04/06	WSD	4.0			
1,1-Dichloroethylene	ug/m3	1900	08/04/06	WSD	4.0			
cis-1,2-Dichloroethylene	ug/m3	150	08/04/06	WSD	4.0			
t-1,2-Dichloroethylene	ug/m3	ND	08/04/06	WSD	4.0			
1,2-Dichloropropane	ug/m3	ND	08/04/06	WSD	4.5			
cis-1,3-Dichloropropene	ug/m3	ND	08/04/06	WSD	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	08/04/06	WSD	4.5			
Ethylbenzene	ug/m3	150	08/04/06	WSD	4.5			
2-Hexanone	ug/m3	ND	08/04/06	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/04/06	WSD	3.5			
Methylene Chloride	ug/m3	ND	08/04/06	WSD	3.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Contract: -
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8/16/2006
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-07S

Sample ID : 06B24292

Sampled : 7/27/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/04/06	WSD	4.0			
Styrene	ug/m3	ND	08/04/06	WSD	4.5			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/04/06	WSD	7.0			
Tetrachloroethylene	ug/m3	1600	08/04/06	WSD	7.0			
Toluene	ug/m3	1400	08/04/06	WSD	4.0			
1,2,4-Trichlorobenzene	ug/m3	ND	08/04/06	WSD	7.5			
1,1,1-Trichloroethane	ug/m3	43000	08/04/06	WSD	5.5			
1,1,2-Trichloroethane	ug/m3	18.	08/04/06	WSD	5.5			
Trichloroethylene	ug/m3	430	08/04/06	WSD	5.5			
Trichlorofluoromethane	ug/m3	ND	08/04/06	WSD	5.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	150000	08/04/06	WSD	7.5			
Vinyl Chloride	ug/m3	ND	08/04/06	WSD	2.5			
m/p-Xylene	ug/m3	220	08/04/06	WSD	4.5			
o-Xylene	ug/m3	140	08/04/06	WSD	4.5			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Page 7 of 56

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-07S

Sample ID : 06B24292

Sampled : 7/27/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			08/04/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND U J	1.	10.
Methyl Acetate	ND	ND ↓	2.1	6.4
Methylcyclohexane	7.5	30 J	1.6	6.4
Isopropylbenzene	ND	ND U J	1.3	6.4
1,2-Dibromo-3-Chloropropane	ND	ND ↓	0.59	6.4

ND= Not Detected

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 20060727-FD-1

Sample ID : 06B24295

Sampled : 7/27/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND C-5	08/04/06	WSD	2.5			
Benzene	ug/m3	360	08/04/06	WSD	3.0			
Bromodichloromethane	ug/m3	ND	08/04/06	WSD	6.5			
Bromomethane	ug/m3	ND	08/04/06	WSD	4.0			
2-Butanone (MEK)	ug/m3	4.6	08/04/06	WSD	3.0			
Carbon Disulfide	ug/m3	ND	08/04/06	WSD	3.0			
Carbon Tetrachloride	ug/m3	ND	08/04/06	WSD	6.5			
Chlorobenzene	ug/m3	ND	08/04/06	WSD	4.5			
Chlorodibromomethane	ug/m3	ND	08/04/06	WSD	8.5			
Chloroethane	ug/m3	420	08/04/06	WSD	2.5			
Chloroform	ug/m3	7.5	08/04/06	WSD	5.0			
Chloromethane	ug/m3	ND	08/04/06	WSD	2.0			
Cyclohexane	ug/m3	17.	08/04/06	WSD	3.5			
1,2-Dibromoethane	ug/m3	ND	08/04/06	WSD	7.5			
1,2-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
1,3-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
1,4-Dichlorobenzene	ug/m3	ND	08/04/06	WSD	6.0			
Dichlorodifluoromethane	ug/m3	7.7	08/04/06	WSD	5.0			
1,1-Dichloroethane	ug/m3	3700	08/04/06	WSD	4.0			
1,2-Dichloroethane	ug/m3	5.5	08/04/06	WSD	4.0			
1,1-Dichloroethylene	ug/m3	1400	08/04/06	WSD	4.0			
cis-1,2-Dichloroethylene	ug/m3	170	08/04/06	WSD	4.0			
t-1,2-Dichloroethylene	ug/m3	ND	08/04/06	WSD	4.0			
1,2-Dichloropropane	ug/m3	ND	08/04/06	WSD	4.5			
cis-1,3-Dichloropropene	ug/m3	ND	08/04/06	WSD	4.5			
trans-1,3-Dichloropropene	ug/m3	ND	08/04/06	WSD	4.5			
Ethylbenzene	ug/m3	180	08/04/06	WSD	4.5			
2-Hexanone	ug/m3	ND	08/04/06	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/04/06	WSD	3.5			
Methylene Chloride	ug/m3	ND	08/04/06	WSD	3.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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8/16/2006

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 20060727-FD-1

Sample ID : 06B24295

Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/04/06	WSD	4.0			
Styrene	ug/m3	ND	08/04/06	WSD	4.5			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/04/06	WSD	7.0			
Tetrachloroethylene	ug/m3	1800	08/04/06	WSD	7.0			
Toluene	ug/m3	1500	08/04/06	WSD	4.0			
1,2,4-Trichlorobenzene	ug/m3	ND	08/04/06	WSD	7.5			
1,1,1-Trichloroethane	ug/m3	36000	08/04/06	WSD	5.5			
1,1,2-Trichloroethane	ug/m3	21.	08/04/06	WSD	5.5			
Trichloroethylene	ug/m3	490	08/04/06	WSD	5.5			
Trichlorofluoromethane	ug/m3	ND	08/04/06	WSD	5.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	120000	08/04/06	WSD	7.5			
Vinyl Chloride	ug/m3	ND	08/04/06	WSD	2.5			
m/p-Xylene	ug/m3	260	08/04/06	WSD	4.5			
o-Xylene	ug/m3	160	08/04/06	WSD	4.5			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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623009-V-75

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Contract: -
Purchase Order No.: -

8/16/2006
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 20060727-FD-1

Sample ID : 06B24295

Sampled : 7/27/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			08/04/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND U J	1.0	10.
Methyl Acetate	ND	ND ↓	2.1	6.4
Methylcyclohexane	8.6	34 J	1.6	6.4
Isopropylbenzene	ND	ND U J	1.3	6.4
1,2-Dibromo-3-Chloropropane	ND	ND ↓	0.59	6.4

ND= Not Detected

11 Feb 06.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-08S
Sample ID : 06B24294
Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	89.	08/07/06	WSD	4.0			
Benzene	ug/m3	29.	08/07/06	WSD	4.8			
Bromodichloromethane	ug/m3	ND	08/07/06	WSD	11.			
Bromomethane	ug/m3	ND	08/07/06	WSD	6.4			
2-Butanone (MEK)	ug/m3	11.	08/07/06	WSD	4.8			
Carbon Disulfide	ug/m3	ND	08/07/06	WSD	4.8			
Carbon Tetrachloride	ug/m3	ND	08/07/06	WSD	11.			
Chlorobenzene	ug/m3	ND	08/07/06	WSD	7.2			
Chlorodibromomethane	ug/m3	ND	08/07/06	WSD	14.			
Chloroethane	ug/m3	ND	08/07/06	WSD	4.0			
Chloroform	ug/m3	ND	08/07/06	WSD	8.0			
Chloromethane	ug/m3	3.3	08/07/06	WSD	3.2			
Cyclohexane	ug/m3	ND	08/07/06	WSD	5.6			
1,2-Dibromoethane	ug/m3	ND	08/07/06	WSD	12.			
1,2-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	9.6			
1,3-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	9.6			
1,4-Dichlorobenzene	ug/m3	ND	08/07/06	WSD	9.6			
Dichlorodifluoromethane	ug/m3	ND	08/07/06	WSD	8.0			
1,1-Dichloroethane	ug/m3	ND	08/07/06	WSD	6.4			
1,2-Dichloroethane	ug/m3	ND	08/07/06	WSD	6.4			
1,1-Dichloroethylene	ug/m3	ND	08/07/06	WSD	6.4			
cis-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	6.4			
t-1,2-Dichloroethylene	ug/m3	ND	08/07/06	WSD	6.4			
1,2-Dichloropropane	ug/m3	ND	08/07/06	WSD	7.2			
cis-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	7.2			
trans-1,3-Dichloropropene	ug/m3	ND	08/07/06	WSD	7.2			
Ethylbenzene	ug/m3	15.	08/07/06	WSD	7.2			
2-Hexanone	ug/m3	ND	08/07/06	WSD	6.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/07/06	WSD	5.6			
Methylene Chloride	ug/m3	21.	08/07/06	WSD	5.6			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-08S

Sample ID : 06B24294

Sampled : 7/27/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/07/06	WSD	6.4			
Styrene	ug/m3	ND	08/07/06	WSD	7.2			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/07/06	WSD	12.			
Tetrachloroethylene	ug/m3	ND	08/07/06	WSD	12.			
Toluene	ug/m3	110	08/07/06	WSD	6.4			
1,2,4-Trichlorobenzene	ug/m3	ND	08/07/06	WSD	12.			
1,1,1-Trichloroethane	ug/m3	ND	08/07/06	WSD	8.8			
1,1,2-Trichloroethane	ug/m3	ND	08/07/06	WSD	8.8			
Trichloroethylene	ug/m3	ND	08/07/06	WSD	8.8			
Trichlorofluoromethane	ug/m3	ND	08/07/06	WSD	8.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	08/07/06	WSD	12.			
Vinyl Chloride	ug/m3	ND	08/07/06	WSD	4.0			
m/p-Xylene	ug/m3	25.	08/07/06	WSD	7.2			
o-Xylene	ug/m3	15.	08/07/06	WSD	7.2			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Contract: -
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-08S

Sample ID : 06B24294

Sampled : 7/27/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			08/07/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND	1.6	16.
Methyl Acetate	ND	ND	3.4	10.2
Methylcyclohexane	ND	ND	2.5	10.2
Isopropylbenzene	ND	ND	2.1	10.2
1,2-Dibromo-3-Chloropropane	ND	ND	0.94	10.2

ND= Not Detected

8/21/06

RL = Reporting Limit

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URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

Contract: -
Purchase Order No.: -

8/16/2006
Page 50 of 56

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-09S

Sample ID : 06B24287

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND	08/03/06	WSD	0.2			
Benzene	ug/m3	12.	08/03/06	WSD	0.2			
Bromodichloromethane	ug/m3	ND	08/03/06	WSD	0.6			
Bromomethane	ug/m3	ND	08/03/06	WSD	0.4			
2-Butanone (MEK)	ug/m3	ND	08/03/06	WSD	0.3			
Carbon Disulfide	ug/m3	ND	08/03/06	WSD	0.3			
Carbon Tetrachloride	ug/m3	ND	08/03/06	WSD	0.6			
Chlorobenzene	ug/m3	ND	08/03/06	WSD	0.4			
Chlorodibromomethane	ug/m3	ND	08/03/06	WSD	0.7			
Chloroethane	ug/m3	ND	08/03/06	WSD	0.2			
Chloroform	ug/m3	ND	08/03/06	WSD	0.4			
Chloromethane	ug/m3	ND	08/03/06	WSD	0.2			
Cyclohexane	ug/m3	ND	08/03/06	WSD	0.3			
1,2-Dibromoethane	ug/m3	ND	08/03/06	WSD	0.6			
1,2-Dichlorobenzene	ug/m3	0.6	08/03/06	WSD	0.5			
1,3-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
1,4-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
Dichlorodifluoromethane	ug/m3	ND	08/03/06	WSD	0.4			
1,1-Dichloroethane	ug/m3	230	08/03/06	WSD	0.3			
1,2-Dichloroethane	ug/m3	ND	08/03/06	WSD	0.4			
1,1-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
cis-1,2-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
t-1,2-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
1,2-Dichloropropane	ug/m3	ND	08/03/06	WSD	0.4			
cis-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	0.4			
trans-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	0.4			
Ethylbenzene	ug/m3	67.	08/03/06	WSD	0.4			
2-Hexanone	ug/m3	ND	08/03/06	WSD	0.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/03/06	WSD	0.3			
Methylene Chloride	ug/m3	ND	08/03/06	WSD	0.3			

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8/16/2006
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Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-09S
Sample ID : 06B24287
Sample Matrix: AIR

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/03/06	WSD	0.4			
Styrene	ug/m3	3.1	08/03/06	WSD	0.4			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/03/06	WSD	0.6			
Tetrachloroethylene	ug/m3	13.	08/03/06	WSD	0.6			
Toluene	ug/m3	210	08/03/06	WSD	0.3			
1,2,4-Trichlorobenzene	ug/m3	ND	08/03/06	WSD	0.6			
1,1,1-Trichloroethane	ug/m3	1400	08/03/06	WSD	0.4			
1,1,2-Trichloroethane	ug/m3	ND	08/03/06	WSD	0.5			
Trichloroethylene	ug/m3	1.2	08/03/06	WSD	0.4			
Trichlorofluoromethane	ug/m3	1.8	08/03/06	WSD	0.4			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	08/03/06	WSD	0.6			
Vinyl Chloride	ug/m3	ND	08/03/06	WSD	0.2			
m/p-Xylene	ug/m3	140	08/03/06	WSD	0.4			
o-Xylene	ug/m3	87.	08/03/06	WSD	0.4			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
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8/16/2006

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-09S

Sample ID : 06B24287

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			08/03/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND UJ	0.1	1.
Methyl Acetate	ND	ND ↓	0.17	0.51
Methylcyclohexane	0.52	2.1 J	0.13	0.51
Isopropylbenzene	0.54	2.6 J	0.10	0.51
1,2-Dibromo-3-Chloropropane	ND	ND UJ	0.05	0.51

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-10S
Sample ID : 06B24285
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	90.	08/03/06	WSD	0.2			
Benzene	ug/m3	18.	08/03/06	WSD	0.2			
Bromodichloromethane	ug/m3	ND	08/03/06	WSD	0.6			
Bromomethane	ug/m3	ND	08/03/06	WSD	0.4			
2-Butanone (MEK)	ug/m3	7.5	08/03/06	WSD	0.2			
Carbon Disulfide	ug/m3	10.	08/03/06	WSD	0.2			
Carbon Tetrachloride	ug/m3	ND	08/03/06	WSD	0.6			
Chlorobenzene	ug/m3	0.8	08/03/06	WSD	0.4			
Chlorodibromomethane	ug/m3	ND	08/03/06	WSD	0.7			
Chloroethane	ug/m3	52.	08/03/06	WSD	0.2			
Chloroform	ug/m3	1.5	08/03/06	WSD	0.4			
Chloromethane	ug/m3	ND	08/03/06	WSD	0.2			
Cyclohexane	ug/m3	ND	08/03/06	WSD	0.3			
1,2-Dibromoethane	ug/m3	ND	08/03/06	WSD	0.6			
1,2-Dichlorobenzene	ug/m3	0.5	08/03/06	WSD	0.5			
1,3-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
1,4-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
Dichlorodifluoromethane	ug/m3	ND	08/03/06	WSD	0.4			
1,1-Dichloroethane	ug/m3	340	08/03/06	WSD	0.3			
1,2-Dichloroethane	ug/m3	ND	08/03/06	WSD	0.4			
1,1-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
cis-1,2-Dichloroethylene	ug/m3	0.9	08/03/06	WSD	0.3			
t-1,2-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
1,2-Dichloropropane	ug/m3	ND	08/03/06	WSD	0.4			
cis-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	0.4			
trans-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	0.4			
Ethylbenzene	ug/m3	86.	08/03/06	WSD	0.4			
2-Hexanone	ug/m3	ND	08/03/06	WSD	0.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/03/06	WSD	0.3			
Methylene Chloride	ug/m3	1.5	08/03/06	WSD	0.3			

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8/16/2006
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-10S

Sample ID : 06B24285

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/03/06	WSD	0.4			
Styrene	ug/m3	4.9	08/03/06	WSD	0.4			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/03/06	WSD	0.6			
Tetrachloroethylene	ug/m3	9.2	08/03/06	WSD	0.6			
Toluene	ug/m3	290	08/03/06	WSD	0.3			
1,2,4-Trichlorobenzene	ug/m3	ND	08/03/06	WSD	0.6			
1,1,1-Trichloroethane	ug/m3	830	08/03/06	WSD	0.4			
1,1,2-Trichloroethane	ug/m3	ND	08/03/06	WSD	0.5			
Trichloroethylene	ug/m3	1.6	08/03/06	WSD	0.4			
Trichlorofluoromethane	ug/m3	ND	08/03/06	WSD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	15.	08/03/06	WSD	0.6			
Vinyl Chloride	ug/m3	ND	08/03/06	WSD	0.2			
m/p-Xylene	ug/m3	170	08/03/06	WSD	0.4			
o-Xylene	ug/m3	110	08/03/06	WSD	0.4			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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8/16/2006
Page 10 of 56
Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-10S
Sample ID : 06B24285
Sampled : 7/26/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			08/03/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND	0.1	1.
Methyl Acetate	ND	ND	0.17	0.51
Methylcyclohexane	2.2	8.9	0.13	0.51
Isopropylbenzene	0.65	3.2	0.10	0.51
1,2-Dibromo-3-Chloropropane	ND	ND	0.05	0.51

ND= Not Detected

8/1/06

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8/16/2006
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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

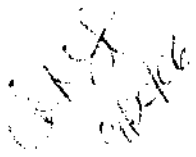
Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-11S

Sample ID : 06B24286

Sampled : 7/26/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	ND (5.)	08/03/06	WSD	0.2			
Benzene	ug/m3	77.	08/03/06	WSD	0.2			
Bromodichloromethane	ug/m3	0.6	08/03/06	WSD	0.5			
Bromomethane	ug/m3	ND	08/03/06	WSD	0.4			
2-Butanone (MEK)	ug/m3	ND	08/03/06	WSD	0.3			
Carbon Disulfide	ug/m3	ND	08/03/06	WSD	0.3			
Carbon Tetrachloride	ug/m3	ND	08/03/06	WSD	0.6			
Chlorobenzene	ug/m3	ND	08/03/06	WSD	0.4			
Chlorodibromomethane	ug/m3	ND	08/03/06	WSD	0.7			
Chloroethane	ug/m3	ND	08/03/06	WSD	0.2			
Chloroform	ug/m3	ND	08/03/06	WSD	0.4			
Chloromethane	ug/m3	ND	08/03/06	WSD	0.2			
Cyclohexane	ug/m3	3.2	08/03/06	WSD	0.3			
1,2-Dibromoethane	ug/m3	ND	08/03/06	WSD	0.6			
1,2-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
1,3-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
1,4-Dichlorobenzene	ug/m3	ND	08/03/06	WSD	0.5			
Dichlorodifluoromethane	ug/m3	ND	08/03/06	WSD	0.4			
1,1-Dichloroethane	ug/m3	ND	08/03/06	WSD	0.4			
1,2-Dichloroethane	ug/m3	ND	08/03/06	WSD	0.4			
1,1-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
cis-1,2-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
t-1,2-Dichloroethylene	ug/m3	ND	08/03/06	WSD	0.4			
1,2-Dichloropropane	ug/m3	ND	08/03/06	WSD	0.4			
cis-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	0.4			
trans-1,3-Dichloropropene	ug/m3	ND	08/03/06	WSD	0.4			
Ethylbenzene	ug/m3	52.	08/03/06	WSD	0.4			
2-Hexanone	ug/m3	ND	08/03/06	WSD	0.4			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	08/03/06	WSD	0.3			
Methylene Chloride	ug/m3	ND	08/03/06	WSD	0.3			



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Contract: -
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8/16/2006

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-11S

Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Sample ID : 06B24286

Sampled : 7/26/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	08/03/06	WSD	0.4			
Styrene	ug/m3	0.5	08/03/06	WSD	0.4			
1,1,2,2-Tetrachloroethane	ug/m3	ND	08/03/06	WSD	0.6			
Tetrachloroethylene	ug/m3	ND	08/03/06	WSD	0.6			
Toluene	ug/m3	460	08/03/06	WSD	0.3			
1,2,4-Trichlorobenzene	ug/m3	ND	08/03/06	WSD	0.6			
1,1,1-Trichloroethane	ug/m3	21.	08/03/06	WSD	0.4			
1,1,2-Trichloroethane	ug/m3	ND	08/03/06	WSD	0.5			
Trichloroethylene	ug/m3	ND	08/03/06	WSD	0.5			
Trichlorofluoromethane	ug/m3	ND	08/03/06	WSD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	08/03/06	WSD	0.6			
Vinyl Chloride	ug/m3	ND	08/03/06	WSD	0.2			
m/p-Xylene	ug/m3	28.	08/03/06	WSD	0.4			
o-Xylene	ug/m3	ND	08/03/06	WSD	0.4			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Project Number: 11174772-00002
LIMS-BAT #: LIMS-98896
Job Number: 11174772-00002

Project Location: BOWMAX
Date Received: 7/28/2006
Field Sample # : 623009-V-11S

Sample ID : 06B24286

Sampled : 7/26/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			08/03/06	WSD				

Results by TO-15 ESTIMATED

Analyte:	Estimated Sample Conc:(PPBv)	Estimated Sample Conc:(ug/m^3)	Reporting Limit (PPBv)	Reporting Limit (ug/m^3)
Bromoform	ND	ND UJ	0.1	1.
Methyl Acetate	ND	ND ↓	0.17	0.51
Methylcyclohexane	1.4	5.4 J	0.13	0.51
Isopropylbenzene	0.14	0.70 J	0.10	0.51
1,2-Dibromo-3-Chloropropane	ND	ND UJ	0.05	0.51

ND= Not Detected

8/31/06

RL = Reporting Limit

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-02A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4797

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U J
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	4	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U J
71-55-6	1,1,1-Trichloroethane	12	
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-02A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4797

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-Triflu	5	U
79-20-9	Methyl Acetate	5	U
110-81-7	Cyclohexane	5	U
108-87-2	Methylcyclohexane	5	U
76-14-2	Freon114	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW2

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4801

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U J
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW2

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4801

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
1330-20-7	Xylene (Total)		5	U
100-42-5	Styrene		5	U
75-25-2	Bromoform		5	U
98-82-8	Isopropylbenzene		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
541-73-1	1,3-Dichlorobenzene		5	U
106-46-7	1,4-Dichlorobenzene		5	U
95-50-1	1,2-Dichlorobenzene		5	U
96-12-8	1,2-Dibromo-3-chloropropane		5	U J
120-82-1	1,2,4-Trichlorobenzene		5	U J
76-13-1	1,1,2-Trichloro-1,2,2-Triflu		5	U
79-20-9	Methyl Acetate		5	U
110-81-7	Cyclohexane		5	U
108-87-2	Methylcyclohexane		5	U
~~76-14-2~~	~~Freon114~~		5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW5

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-03A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4798

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
75-71-8	Dichlorodifluoromethane		5	U
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		41	
75-69-4	Trichlorofluoromethane		5	U
75-35-4	1,1-Dichloroethene		5	U
67-64-1	Acetone		5	U
75-15-0	Carbon Disulfide		5	U
75-09-2	Methylene Chloride		520	E
156-60-5	trans-1,2-Dichloroethene		5	U
1634-04-4	Methyl tert-butyl ether		5	U
75-34-3	1,1-Dichloroethane		2500	E
78-93-3	2-Butanone		24	
156-59-2	cis-1,2-Dichloroethene		5	U
67-66-3	Chloroform		5	U
71-55-6	1,1,1-Trichloroethane	34000	9700	E
56-23-5	Carbon Tetrachloride		5	U
107-06-2	1,2-Dichloroethane		19	
71-43-2	Benzene		1	J
79-01-6	Trichloroethene		15	
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
108-10-1	4-Methyl-2-pentanone		5	U
108-88-3	Toluene		45	
10061-02-6	trans-1,3-Dichloropropene		5	U
79-00-5	1,1,2-Trichloroethane		5	U
127-18-4	Tetrachloroethene		570	E
591-78-6	2-Hexanone		5	U
124-48-1	Dibromochloromethane		5	U
106-93-4	1,2-Dibromoethane		5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene	2500	~~2400~~	E

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW5

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-03A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4798

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	11000 ~~7200~~	~~E~~ J
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	8	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-Triflu	31000 ~~21000~~	~~E~~ J
79-20-9	Methyl Acetate	5	U
110-81-7	Cyclohexane	5	U
108-87-2	Methylcyclohexane	8	J
~~76-14-2~~	~~Freon114~~	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW5DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-03ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4869

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/03/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1000.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	5000	U
75-01-4	Vinyl Chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-4	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	5000	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	5000	U
75-09-2	Methylene Chloride	5000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
1634-04-4	Methyl tert-butyl ether	5000	U
75-34-3	1,1-Dichloroethane	5000	U
78-93-3	2-Butanone	5000	U
156-59-2	cis-1,2-Dichloroethene	5000	U
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	34000	D
56-23-5	Carbon Tetrachloride	5000	U
107-06-2	1,2-Dichloroethane	5000	U
71-43-2	Benzene	5000	U
79-01-6	Trichloroethene	5000	U
78-87-5	1,2-Dichloropropane	5000	U
75-27-4	Bromodichloromethane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	5000	U
10061-02-6	trans-1,3-Dichloropropene	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	5000	U
100-41-4	Ethylbenzene	2500	DJ

CLP 9/19/06

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW5DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-03ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4869

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/03/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1000.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	11000	D
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
541-73-1	1,3-Dichlorobenzene	5000	U
106-46-7	1,4-Dichlorobenzene	5000	U
95-50-1	1,2-Dichlorobenzene	5000	U
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	5000	U
76-13-1	1,1,2-Trichloro-1,2,2-Triflu	31000	D
79-20-9	Methyl Acetate	5000	U
110-81-7	Cyclohexane	5000	U
108-87-2	Methylcyclohexane	5000	U
~~76-14-2~~	~~Freon114~~	5000	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-04A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4799

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	UJ
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	3300 ~~2700~~	E D
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	130	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2700 ~~2200~~	E D
78-93-3	2-Butanone	62	
156-59-2	cis-1,2-Dichloroethene	8	
67-66-3	Chloroform	5	UJ
71-55-6	1,1,1-Trichloroethane	1800 ~~1300~~	E D
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	15	
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	4	J
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	4	J
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	UJ
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-04A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4799

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U J
120-82-1	1,2,4-Trichlorobenzene	5	U J
76-13-1	1,1,2-Trichloro-1,2,2-Triflu	430 ~~360~~	E D
79-20-9	Methyl Acetate	5	U
110-81-7	Cyclohexane	5	U
108-87-2	Methylcyclohexane	5	U
~~76-14-2~~	~~Freon114~~	~~5~~	~~U~~

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW7DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4870

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/03/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	120	U
74-87-3	Chloromethane	120	U
75-01-4	Vinyl Chloride	120	U
74-83-9	Bromomethane	120	U
75-00-3	Chloroethane	3300	D
75-69-4	Trichlorofluoromethane	120	U
75-35-4	1,1-Dichloroethene	170	D
67-64-1	Acetone	120	U
75-15-0	Carbon Disulfide	120	U
75-09-2	Methylene Chloride	120	U
156-60-5	trans-1,2-Dichloroethene	120	U
1634-04-4	Methyl tert-butyl ether	120	U
75-34-3	1,1-Dichloroethane	2700	D
78-93-3	2-Butanone	120	U
156-59-2	cis-1,2-Dichloroethene	120	U
67-66-3	Chloroform	120	U
71-55-6	1,1,1-Trichloroethane	1800	D
56-23-5	Carbon Tetrachloride	120	U
107-06-2	1,2-Dichloroethane	120	U
71-43-2	Benzene	120	U
79-01-6	Trichloroethene	120	U
78-87-5	1,2-Dichloropropane	120	U
75-27-4	Bromodichloromethane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
108-10-1	4-Methyl-2-pentanone	120	U
108-88-3	Toluene	120	U
10061-02-6	trans-1,3-Dichloropropene	120	U
79-00-5	1,1,2-Trichloroethane	120	U
127-18-4	Tetrachloroethene	120	U
591-78-6	2-Hexanone	120	U
124-48-1	Dibromochloromethane	120	U
106-93-4	1,2-Dibromoethane	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	120	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

623009GW7DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4870

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/03/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	120	U
100-42-5	Styrene	120	U
75-25-2	Bromoform	120	U
98-82-8	Isopropylbenzene	120	U
79-34-5	1,1,2,2-Tetrachloroethane	120	U
541-73-1	1,3-Dichlorobenzene	120	U
106-46-7	1,4-Dichlorobenzene	120	U
95-50-1	1,2-Dichlorobenzene	120	U
96-12-8	1,2-Dibromo-3-chloropropane	120	U
120-82-1	1,2,4-Trichlorobenzene	120	U
76-13-1	1,1,2-Trichloro-1,2,2-Triflu	430	D
79-20-9	Methyl Acetate	120	U
110-81-7	Cyclohexane	120	U
108-87-2	Methylcyclohexane	120	U
76-14-2	Freon114	120	U

9/7/06

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-05A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4800

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	2	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U

8/9/06

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix: (soil/water) WATER Lab Sample ID: E1096-05A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6E4800

Level: (low/med) LOW Date Received: 07/26/06

% Moisture: not dec. _____ Date Analyzed: 08/01/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
76-13-1	1,1,2-Trichloro-1,2,2-Triflu	5	U
79-20-9	Methyl Acetate	5	U
110-81-7	Cyclohexane	5	U
108-87-2	Methylcyclohexane	5	U
76-14-2	Freon114	5	U

8/1/06

ATTACHMENT B

SUPPORT DOCUMENTATION

LIMS-98896

CHAIN OF CUSTODY RECORD

URS

PROJECT NO.: 11774772.00002 (88)
SITE NAME: BOWMAX
SAMPLERS (PRINT/SIGNATURE): John Boyd
DELIVERY SERVICE: Fed Ex AIRBILL NO.:
LAB: Con-Test
COOLER: 3 Boxes of
PAGE: 1 of 1

TESTS: TO-15

BOTTLE TYPE AND PRESERVATIVE: 6 Liter Summas; 06B

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	REMARKS (CANISTER ID / Reg. NO)	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
	7/26/06	1433	2hr AIR	623009-V-10S	GS	1	3433 7432	N.	-	-	-
		1508		623009-V-11S	GS	1	1327 5015	N	-	-	-
		~~1538~~		~~623009-V-09S~~			~~1379~~				
		1530		623009-V-9S	GS	1	1379 5040	N.	-	-	-
		1811		623009-V-1S	GS	1	1310 5085	N.	-	-	-
		1832		623009-V-2S	GS	1	1809 40	N.	-	-	-
		1854		623009-V-4S	GS	1	4405 5071	N.	-	-	-
	7/27/06	0902		623009-V-6S	GS	1	3373 5042	N.	-	-	-
		0945		623009-V-7S	GS	1	1374 5047	N.	-	-	-
		1009		623009-V-5S	GS	1	1365 5060	N.	-	-	-
		1202		623009-V-8S	GS	1	1386 5069	N.	-	-	-
		-		20060727-FD-1	GS	1	1368 5054	FR.	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
John Boyd	7/27/06	1420			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			Chris Lynch	7-28-06	13:30

SPECIAL INSTRUCTIONS: Sample NO's 623009-V-4S AND 623009-V-8S were sent to Ambient (Almost) in 12 minutes each! Appears to be faulty regulators (All fittings Tight). Please Analyze these Samples. We will call to discuss. John Boyd - URS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 8/16/2006

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203
ATTN: JOHN BOYD

CONTRACT NUMBER: -
PURCHASE ORDER NUMBER: -

PROJECT NUMBER: 11174772-00002

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-98896
JOB NUMBER: 11174772-00002

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMS-98896

REVISED REPORT

NARRATIVE SUMMARY

METHOD BLANKS WERE CONTAMINATED WITH TARGET ANALYTES AS LISTED BELOW:
BLANK FOR SAMPLES 06B24285 - 06B24287, 06B24291 - 06B24293, AND 06B24295:
ACETONE: 0.2 PPBV (0.4 UG/M3)

BLANK FOR SAMPLES 06B24288 - 06B24290 AND 06B24294:
ACETONE: 0.6 PPBV (1.4 UG/M3)

THERE ARE NO OTHER ANALYTICAL ISSUES THAT AFFECT THE USABILITY OF THE DATA.

DETAILED CASE NARRATIVE

METHOD TO-15

THE TO-15 METHOD BLANK WAS NOT CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMIT EXCEPT WHERE LISTED BELOW:

BLANK FOR SAMPLES 06B24285 - 06B24287, 06B24291 - 06B24293, AND 06B24295:
ACETONE: 0.2 PPBV (0.4 UG/M3)

BLANK FOR SAMPLES 06B24288 - 06B24290 AND 06B24294:
ACETONE: 0.6 PPBV (1.4 UG/M3)

ALL TO-15 SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:

SAMPLE	DILUTION	COMPOUNDS
06B24285	20X OF 400MLS (EFFECTIVE 50X OF 1000 MLS)	ACETONE, ETHYLBENZENE, TOLUENE, 1,1,1-TRICHLOROETHANE, XYLENES, 1,1-DICHLOROETHANE, CHLOROETHANE, 1,2,4-TRIMETHYLBENZENE
06B24285DUP	20X OF 400MLS (EFFECTIVE 50X OF 1000 MLS)	ACETONE, ETHYLBENZENE, TOLUENE, 1,1,1-TRICHLOROETHANE, XYLENES, 1,1-DICHLOROETHANE, CHLOROETHANE, 1,2,4-TRIMETHYLBENZENE
06B24286	20X OF 400MLS (EFFECTIVE 50X OF 1000 MLS)	BENZENE, TOLUENE, ETHYLBENZENE
06B24287	20X OF 400MLS (EFFECTIVE 50X OF 1000 MLS)	ETHYLBENZENE, TOLUENE, 1,1,1-TRICHLOROETHANE, XYLENES, 1,1-DICHLOROETHANE, 1,2,4-TRIMETHYLBENZENE
06B24288	20X OF 400MLS (EFFECTIVE 50X OF 1000 MLS)	ACETONE, BENZENE, ETHYLBENZENE, 1,1,1-TRICHLOROETHANE, XYLENES, 1,1-DICHLOROETHANE, CARBON DISULFIDE
	200X OF 400 MLS (EFFECTIVE 500X OF 1000 MLS)	TOLUENE

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 8/16/2006

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203
ATTN: JOHN BOYD

CONTRACT NUMBER: -
PURCHASE ORDER NUMBER: -

PROJECT NUMBER: 11174772-00002

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-98896
JOB NUMBER: 11174772-00002

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

06B24289	20X OF 400MLS (EFFECTIVE 50X OF 1000 MLS)	ACETONE, ETHYLBENZENE, XYLENES, CARBON DISULFIDE
	200X OF 400 MLS (EFFECTIVE 500X OF 1000 MLS)	BENZENE, TOLUENE
06B24290	4X ONLY - LIMITED AIR VOLUME IN CANISTER	
06B24291	5X ENTIRE SAMPLE EXCEPT	
	20X	TOLUENE, 1,1-DICHLOROETHANE,
	20X	1,1-DICHLOROETHYLENE, VINYL CHLORIDE,
	400X	CHLOROETHANE, CIS-1,2-DICHLOROETHYLENE
06B24292	5X ENTIRE SAMPLE EXCEPT	
	20X	TETRACHLOROETHYLENE, TOLUENE,
	20X	CHLOROETHANE
	1000X	1,1,1-TRICHLOROETHANE,
	1000X	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,
	1000X	1,1-DICHLOROETHYLENE
	1000X	1,1-DICHLOROETHANE
06B24293	5X ENTIRE SAMPLE EXCEPT	
	20X	ETHYLBENZENE
	1000X	BENZENE, TOLUENE, 1,1-DICHLOROETHANE,
	1000X	1,1-DICHLOROETHYLENE
	5000X	1,1,1-TRICHLOROETHANE,
	5000X	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
06B24294	8X ONLY - LIMITED AIR VOLUME IN CANISTER	
06B24295	5X ENTIRE SAMPLE EXCEPT	
	20X	BENZENE, TOLUENE, CHLOROETHANE
	20X	TETRACHLOROETHYLENE
	1000X	1,1-DICHLOROETHANE,
	1000X	1,1-DICHLOROETHYLENE,
	1000X	1,1,1-TRICHLOROETHANE,
	1000X	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR METHOD TO-15 EXCEPT AS LISTED BELOW: ALL STANDARDS MET

LABORATORY CONTROL SAMPLE RECOVERIES WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

LFBLANK-53719 IS ASSOCIATED WITH THE PRIMARY, UNDILUTED ANALYSIS FOR SAMPLES 06B24285 - 06B24287, 06B24291 - 06B24293, AND 06B24295:

LFBLANK-53722 IS ASSOCIATED WITH THE PRIMARY, UNDILUTED ANALYSIS FOR SAMPLES 06B24288 - 06B24290, AND 06B24294

ALL TO-15 SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) IF REQUESTED ARE LISTED BELOW:
NOT REQUESTED

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

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ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 8/16/2006

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203
ATTN: JOHN BOYD

CONTRACT NUMBER: -
PURCHASE ORDER NUMBER: -

PROJECT NUMBER: 11174772-00002

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-98896
JOB NUMBER: 11174772-00002

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 8/16/06

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

Sequence Name: C:\MSDChem\1\sequence\F080306.S
Comment:
Operator: WSD
Data Path: C:\MSDCHEM\1\DATA\F080306\

Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info		
1)	Blank	1	F080301	S071306	BAKE OUT
2)	Blank	1	F080302	S071306	BFB
3)	Calibration	3	F080303	S071306	10 PPBV STD
4)	Sample	2	F080304	S071306	10PPBV QC -LFBLANK.53719
5)	Blank	1	F080305	S071306	MB
6)	Blank	1	F080306	S071306	MB
7)	Sample	7	F080307	S071306	06B24286 1X 1000ml
8)	Sample	1	F080308	S071306	CLUP
9)	Sample	6	F080309	S071306	06B24285 1X 1000ml
10)	Sample	6	F080310	S071306	06B24285 1X DUP 1000ml
11)	Sample	1	F080311	S071306	CLUP
12)	Sample	8	F080312	S071306	06B24287 1X 1000ml
13)	Sample	1	F080313	S071306	CLUP
14)	Sample	9	F080314	S071306	06B24288 2X NOTICE RR 1000ml 8/7/F
15)	Sample	1	F080315	S071306	CLUP
16)	Sample	10	F080316	S071306	06B24289 2X NOTICE RR 1000ml 8/7/F
17)	Sample	1	F080317	S071306	CLUP
18)	Sample	15	F080318	S071306	06B24291 20x
19)	Sample	15	F080319	S071306	06B24291 5x Lowest RL
20)	Sample	1	F080320	S071306	CLUP
21)	Sample	12	F080321	S071306	06B24292 20x
22)	Sample	12	F080322	S071306	06B24292 5x Lowest RL
23)	Sample	1	F080323	S071306	CLUP
24)	Sample	13	F080324	S071306	06B24293 5x Lowest RL
25)	Sample	1	F080325	S071306	CLUP
26)	Sample	14	F080326	S071306	06B24295 5x Lowest RL
27)	Sample	1	F080327	S071306	CLUP
28)	Sample	1	F080328	S071306	BFB
29)	Sample	4	F080329	S071306	1.41 ug/m^3 std
30)	Sample	4	F080330	S071306	1.41 ug/m^3 std
31)	Sample	4	F080331	S071306	3.525 ug/m^3 std
32)	Sample	4	F080332	S071306	7.05 ug/m^3 std
33)	Sample	4	F080333	S071306	14.1 ug/m^3 std
34)	Sample	4	F080334	S071306	28.2 ug/m^3 std
35)	Sample	4	F080335	S071306	35.25 ug/m^3 std
36)	Sample	5	F080336	S071306	25 ug/m^3 qc
37)	Sample	4	F080337	S071306	19.79 ug/m^3 STD
38)	Sample	4	F080338	S071306	25 ug/m^3 qc

Evaluate Continuing Calibration Report

145

Data Path : C:\MSDChem\1\DATA\F080306\
Data File : F080303.D
Acq On : 3 Aug 2006 10:17 am
Operator : WSD
Sample : 10 PPBV STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 03 11:15:44 2006
Quant Method : C:\MSDChem\1\METHODS\S080106.M
Quant Title : INITIAL RTE INTERGRATOR METHOD
QLast Update : Wed Aug 02 15:43:29 2006
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1		BROMOCHLOROMETHANE	1.000	1.000	0.0	126	0.00
2		PROPENE	0.501	0.503	-0.4	113	0.00
3		DICHLORODIFLUOROMETHANE	4.105	3.556	13.4	107	0.00
4		CHLOROMETHANE	0.686	0.650	5.2	116	0.00
5		FREON 114	3.490	3.086	11.6	110	0.00
6		VINYL CHLORIDE	0.888	0.798	10.1	109	0.00
7		1,3-BUTADIENE	0.706	0.625	11.5	111	0.00
8		BROMOMETHANE	1.061	0.936	11.8	110	0.00
9		CHLOROETHANE	0.450	0.395	12.2	112	0.00
10		ACETONE	1.927	1.275	33.8#	112	0.00
11		TRICHLOROFLUOROMETHANE	4.698	3.833	18.4	108	0.00
12		ETHANOL	0.296	0.212	28.4	114	-0.01
13		1,1-DICHLOROETHENE	1.779	1.571	11.7	110	0.00
14		METHYLENE CHLORIDE	1.236	0.877	29.0	111	0.00
15		FREON 113	2.468	2.163	12.4	109	0.00
16		CARBON DISULFIDE	2.623	2.313	11.8	113	0.00
17		TRANS-1,2-DICHLOROETHENE	1.383	1.263	8.7	114	0.00
18		1,1-DICHLOROETHANE	1.720	1.564	9.1	115	0.00
19		MTBE	2.686	2.560	4.7	111	0.00
20		IPA	1.011	0.975	3.6	106	-0.01
21		2-BUTANONE(MEK)	1.463	1.339	8.5	114	0.00
22		CIS-1,2-DICHLOROETHENE	1.322	1.215	8.1	113	0.00
23		VINYL ACETATE	2.066	1.924	6.9	113	0.00
24		HEXANE	1.086	0.922	15.1	111	0.00
25		ETHYL ACETATE	0.191	0.192	-0.5	112	0.00
26		CHLOROFORM	2.676	2.371	11.4	111	0.00
27		TETRAHYDROFURAN	0.670	0.678	-1.2	116	0.00
28		1,2-DICHLOROETHANE	1.914	1.663	13.1	107	0.00
29		1,4-DIFLUROBENZENE	1.000	1.000	0.0	133	0.00
30		1,1,1-TRICHLOROETHANE	1.023	0.862	15.7	108	0.00
31		BENZENE	0.862	0.766	11.1	113	0.00
32		CARBON TETRACHLORIDE	1.180	0.986	16.4	107	0.00
33		CYCLOHEXANE	0.238	0.206	13.4	113	0.00
34		1,2-DICHLOROPROPANE	0.268	0.232	13.4	114	0.00
35		BROMODICHLOROMETHANE	0.891	0.764	14.3	109	0.00
36		TRICHLOROETHENE	0.490	0.403	17.8	111	0.00
37		HEPTANE	0.223	0.198	11.2	114	0.00
38		MIBK	0.427	0.408	4.4	111	0.00
39		CIS-1,3-DICHLOROPROPENE	0.483	0.444	8.1	111	0.00
40		TRANS-1,3-DICHLOROPROPENE	0.520	0.497	4.4	109	0.00
41	I	CHLOROBENZENE-D5 ISTD	1.000	1.000	0.0	138	0.00
42		1,1,2-TRICHLOROETHANE	0.497	0.419	15.7	111	0.00
43		TOLUENE	1.439	1.230	14.5	110	0.00
44		2-HEXANONE(MBK)	0.482	0.478	0.8	112	0.00
45		DIBROMOCHLOROMETHANE	1.207	0.995	17.6	107	0.00

10 ACETONE 1.927 1.275 ~~12.2~~ 33.8# 112 0.00 < 50%

CHAIN OF CUSTODY RECORD

URS

PROJECT NO.

SITE NAME: BOWMAN -WATERTOWN

SAMPLERS (PRINT/SIGNATURE): JOHN BOYD

DELIVERY SERVICE: FedEx AIRBILL NO.:

LAB: ~~Mitk~~ MITKEM

COOLER 1 of 1

PAGE 1 of 1

TESTS: 8260 B

BOTTLE TYPE AND PRESERVATIVE: 40 ml

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (FRPMS)
	7/25/06	10 00	GRAB	623009-GW-2	WG	2		N1	—	—	—
		10 00		623009-GW-2 MS	WG	2		MS	—	—	—
		1000		623-009-GW-2 MSD	WG	2		MSD	—	—	—
		11 50		623009-GW-1	WG	2		N1	—	—	—
		1545		623009-GW-5	WG	2		N1	—	—	—
		1650		623009-GW-7	WG	2		N1	—	—	—
		—		TRIP BLANK	~~WG~~	2		TB	—	—	—

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
7/25/06	~~183~~	1830			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				7/26/06	9:00

SPECIAL INSTRUCTIONS: Contact Ann Marie Kropovitch at 716 856 5636 if questions

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

5C

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to URS Corporation's Bomax Manufacturing project. Under this deliverable, analysis results are presented for five aqueous samples that were received on July 26, 2006. Analyses were performed per specifications in the project's contract and the chain of custody forms, following discussions with the client. Sample Identifications were shortened where necessary due to limitations in data reporting software. Following the narrative is a table of sample identifications for cross-referencing full client sample ID, shortened client sample ID and laboratory sample ID, along with the Mitkem Work Order.

The analyses were performed according to NYSDEC ASP protocols (2000 update) and reported per NYSDEC ASP requirement for Category B deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Trap used for instruments V1 and V6: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

The aqueous samples were not acid preserved; pH 7.

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits with the exception of high recovery of 1,2-dichloroethane and low recovery of dibromochloromethane in V1TLCS and marginally low recovery of chloroform in V6ZLCS.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on sample 623009GW2. Spike recoveries were within the QC limits with the exception of marginally high recovery of 1,2-dichloroethane in the matrix spike and marginally low recovery of dibromochloromethane in the matrix spike duplicate. Replicate RPDs were within the QC limits.

Sample analysis: internal standard area counts were within QC criteria with the exception of sample 623009GW5. The sample was re-analyzed at dilution with internal standard area counts within QC criteria. Due to the high concentration of target analytes, the following samples were re-analyzed at dilution: 623009GW5 (1000x) and 623009GW7 (25x). No other unusual observation was made for the analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
08/16/06

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		33	66	48-135
Chloromethane	50		38	76	60-118
Vinyl Chloride	50		40	80	65-113
Bromomethane	50		42	84	73-122
Chloroethane	50		44	88	72-118
Trichlorofluoromethane	50		40	80	68-129
1,1-Dichloroethene	50		41	82	67-121
Acetone	50		55	110	38-161
Carbon Disulfide	50		38	76	53-137
Methylene Chloride	50		46	92	59-132
trans-1,2-Dichloroethen	50		42	84	71-124
Methyl tert-butyl ether	50		51	102	75-123
1,1-Dichloroethane	50		42	84	83-116
2-Butanone	50		54	108	64-139
cis-1,2-Dichloroethene	50		45	90	83-120
Chloroform	50		44	88*	89-118
1,1,1-Trichloroethane	50		41	82	81-122
Carbon Tetrachloride	50		41	82	79-125
1,2-Dichloroethane	50		50	100	83-123
Benzene	50		45	90	81-120
Trichloroethene	50		43	86	77-121
1,2-Dichloropropane	50		47	94	81-116
Bromodichloromethane	50		46	92	90-114
cis-1,3-Dichloropropene	50		48	96	78-119
4-Methyl-2-pentanone	50		51	102	57-138
Toluene	50		45	90	81-121
trans-1,3-Dichloroprope	50		48	96	85-118
1,1,2-Trichloroethane	50		51	102	44-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Lab File ID (Standard): V6E4791 Date Analyzed: 08/01/06

Instrument ID: V6 Time Analyzed: 1019

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1532145	5.63	1228666	9.22	713212	12.19
	UPPER LIMIT	3064290	6.13	2457332	9.72	1426424	12.69
	LOWER LIMIT	766073	5.13	614333	8.72	356606	11.69
	EPA SAMPLE NO.						
01	VBLK6Z	1427178	5.63	1080801	9.22	565914	12.19
02	V6ZLCS	1365978	5.63	1079707	9.21	624109	12.19
03	623009GW1	979475	5.64	744192	9.21	394008	12.19
04	623009GW5	721878*	5.63	607676*	9.22	332085*	12.19
05	623009GW7	879971	5.63	669286	9.22	361702	12.19
06	TB	1144832	5.64	881849	9.22	482490	12.19
07	623009GW2	1280173	5.64	1056745	9.21	526158	12.19
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Lab File ID: V6E4790 BFB Injection Date: 08/01/06

Instrument ID: V6 BFB Injection Time: 0956

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 100.0% of mass 95	88.9
175	5.0 - 9.0% of mass 174	6.5 (7.4)1
176	95.0 - 101.0% of mass 174	85.5 (96.1)1
177	5.0 - 9.0% of mass 176	5.5 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506Z	VSTD0506Z	V6E4791	08/01/06	1019
02	VBLK6Z	MB-25083	V6E4792	08/01/06	1119
03	V6ZLCS	LCS-25083	V6E4793	08/01/06	1154
04	623009GW1	E1096-02A	V6E4797	08/01/06	1345
05	623009GW5	E1096-03A	V6E4798	08/01/06	1410
06	623009GW7	E1096-04A	V6E4799	08/01/06	1436
07	TB	E1096-05A	V6E4800	08/01/06	1501
08	623009GW2	E1096-01A	V6E4801	08/01/06	1526
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Samples

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Instrument ID: V6 Calibration Date: 08/01/06 Time: 1019

Lab File ID: V6E4791 Init. Calib. Date(s): 05/15/06 05/15/06

Heated Purge: (Y/N) N Init. Calib. Times: 1146 1357

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.230	0.178	0.01	22.6	20.0	<-
Chloromethane	0.435	0.349	0.1	19.8	20.0	
Vinyl Chloride	0.359	0.313	0.01	12.8	20.0	
Bromomethane	0.259	0.221	0.01	14.7	20.0	
Chloroethane	0.206	0.188	0.01	8.7	20.0	
Trichlorofluoromethane	0.533	0.493	0.01	7.5	20.0	
1,1-Dichloroethene	0.270	0.232	0.01	14.1	20.0	
Acetone	0.105	0.114	0.01	8.6	20.0	
Carbon Disulfide	0.929	0.763	0.01	17.9	20.0	
Methylene Chloride	0.287	0.254	0.01	11.5	20.0	
trans-1,2-Dichloroethene	0.305	0.270	0.01	11.5	20.0	
Methyl tert-butyl ether	0.868	0.801	0.01	7.7	20.0	
1,1-Dichloroethane	0.575	0.476	0.1	17.2	20.0	
2-Butanone	0.145	0.148	0.01	2.1	20.0	
cis-1,2-Dichloroethene	0.317	0.284	0.01	10.4	20.0	
Chloroform	0.640	0.553	0.01	13.6	20.0	
1,1,1-Trichloroethane	0.584	0.512	0.01	12.3	20.0	
Carbon Tetrachloride	0.543	0.499	0.01	8.1	20.0	
1,2-Dichloroethane	0.502	0.446	0.01	11.2	20.0	
Benzene	1.162	1.025	0.01	11.8	20.0	
Trichloroethene	0.334	0.302	0.01	9.6	20.0	
1,2-Dichloropropane	0.309	0.273	0.01	11.6	20.0	
Bromodichloromethane	0.462	0.423	0.01	8.4	20.0	
cis-1,3-Dichloropropene	0.502	0.453	0.01	9.8	20.0	
4-Methyl-2-pentanone	0.304	0.264	0.01	13.2	20.0	
Toluene	1.253	1.137	0.01	9.2	20.0	
trans-1,3-Dichloropropene	0.491	0.429	0.01	12.6	20.0	
1,1,2-Trichloroethane	0.250	0.229	0.01	8.4	20.0	
Tetrachloroethene	0.353	0.328	0.01	7.1	20.0	
2-Hexanone	0.272	0.258	0.01	5.1	20.0	
Dibromochloromethane	0.485	0.425	0.01	12.4	20.0	
1,2-Dibromoethane	0.389	0.325	0.01	16.4	20.0	
Chlorobenzene	1.080	0.945	0.3	12.5	20.0	
Ethylbenzene	0.576	0.504	0.01	12.5	20.0	
Xylene (Total)	0.698	0.635	0.01	9.0	20.0	
Styrene	1.147	1.039	0.01	9.4	20.0	
Bromoform	0.335	0.308	0.1	8.0	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1096

Instrument ID: V6 Calibration Date: 08/01/06 Time: 1019

Lab File ID: V6E4791 Init. Calib. Date(s): 05/15/06 05/15/06

Heated Purge: (Y/N) N Init. Calib. Times: 1146 1357

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Isopropylbenzene	1.700	1.573	0.01	7.5	20.0	
1,1,2,2-Tetrachloroethane	0.885	0.730	0.3	17.5	20.0	
1,3-Dichlorobenzene	1.746	1.464	0.01	16.2	20.0	
1,4-Dichlorobenzene	1.737	1.448	0.01	16.6	20.0	
1,2-Dichlorobenzene	1.639	1.362	0.01	16.9	20.0	
1,2-Dibromo-3-chloropropane	0.178	0.131	0.01	26.4	20.0	<-
1,2,4-Trichlorobenzene	1.138	0.815	0.01	28.4	20.0	<-
1,1,2-Trichloro-1,2,2-Triflu	0.300	0.286	0.01	4.7	20.0	
Methyl Acetate	0.212	0.196	0.01	7.5	20.0	
Cyclohexane	0.551	0.490	0.01	11.1	20.0	
Methylcyclohexane	0.495	0.469	0.01	5.2	20.0	
Freon114	0.357	0.357	0.01	0.0	20.0	
Dibromofluoromethane	0.303	0.283	0.01	6.6	20.0	
1,2-Dichloroethane-d4	0.062	0.056	0.01	9.7	20.0	
Toluene-d8	1.237	1.096	0.01	11.4	20.0	
Bromofluorobenzene	0.519	0.477	0.01	8.1	20.0	

ATTACHMENT D

SOIL VAPOR SAMPLING RECORDS

AND CHAIN OF CUSTODY FORMS

Summa Canister Sampling Field Data Sheet

Site: BOMAX - WATERTOWN

Samplers: JOHN BOYD URS TOM FESIA DEC

Date: 7/26/06

Sample #	623009-V-03S	623009-V-10S	623009-V-11S	623009-V-09S	623009-V-15
Location	BOWMAX	→	→	→	→
Summa Canister ID	3510	3473	1327	1379	1310
Flow Controller ID	5063 2hr	5021	5015	5040	5085
Additional Tubing Added	~~YES~~ - How much 3B	NO / YES - How much	NO / YES - How much 1	NO / YES - How much	NO / YES - How much
Purge Time (Start)	1054	1426	~~X~~ 1457	1525	1806
Purge Time (Stop)	1100	1432	1502	1530	1811
Total Purge Time (min)	6 MIN	6 MIN	5 MIN	5 MIN	5 MIN
Purge Volume	1 LITER	1 LITER	1 LITER	1 LITER	1 LITER
PID Test of Purge Air	0.0	194.	208	73	470
Initial Tracer Gas Results	3050 PPM (0.3%)	0.0 (98.6)	0.0 (97.6)	0.0 (97.8)	0.0
Pressure Gauge - before sampling	-30	-28	-25	~~-5~~ -30+	-26
Sample Time (Start)	1100	1433	1508	1530	1814
Sample Time (Stop)	~~1545~~ 1625	1557	1645	1730	1954
Total Sample Time (min)	325 MIN	84 MIN	97 MIN	2 M.	100 MIN
Pressure Gauge - after sampling	-30	-4	-4	-4	-3
Sample Volume	~~6 LITER~~	6 LITER	6 LITER	6 LITER	6 LITER
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	~~0.0~~ NA	0.0 PPM	1200 PPM	0 PPM	2850 PPM
Associated Ambient Air Sample Number	NA	NA	NA	NA	NA
General Comments: NOTES	TIME Helium % 1543 47.8 (16) 1550 (6) DID NOT Analyze	1547 71.5 (8) off at 1552	1552 76.4 (27) 1612 83.1 (12) 1627 76.2 (8)	1617 76.7 (21) 1704 64.3 (10)	1900 61.2 (-13) 1938 76.5 (-7)

Summa Canister Sampling Field Data Sheet

Site: BOMAX
Samplers: Tom Boyd VRS TOM FESTA NYSDEC
Date: 7/27/06

Sample #	623009-V-65	623009 ~~V-55~~ V-75	20060727-FD1	623009-V-55	623009-V-85
Location	BOWMAX	→ 1374	→	→	→
Summa Canister ID	3373	~~1365~~	1368	1365	1386
Flow Controller ID	5042	~~5068~~ 5047	5054	5060	5069
Additional Tubing Added	(NO) YES - How much	(NO) YES - How much 3'	NO (YES) - How much 3'	(NO) YES - How much	(NO) YES - How much
Purge Time (Start)	0845	0918	0918	1002	1154
Purge Time (Stop)	0850	0923	0923	1008	1159
Total Purge Time (min)	5 MIN	5 MIN	5 MIN	6 MIN	5 MIN
Purge Volume	1 LITER	1 LITER	1 LITER	1 LITER	1 LITER
PID Test of Purge Air	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM
Initial Tracer Gas Results	6%	500 PPM	500 PPM		0 PPM
Pressure Gauge - before sampling	-30	-30	~~-27~~	-22.5	-29.5
Sample Time (Start)	0902	0945	0945	1009	1202
Sample Time (Stop)	1040	1119	1119	1132	1214
Total Sample Time (min)	98 MIN	94 MIN	94 MIN	83 MIN	12 MIN
Pressure Gauge - after sampling	-3.5	-10	-2	-2	-1
Sample Volume	6 LITER	6 LITER	6 LITER	6 LITER	6 LITER
Canister Pressure Went To Ambient Pressure?	YES (NO)	YES / (NO)	YES / (NO)	YES (NO)	YES / (NO)
Final Tracer Gas Results	7.7	500 PPM	500 PPM	1700 PPM	0 PPM
Associated Ambient Air Sample Number	NA TIME Helium VAC	NA TIME Helium VAC	NA	NA TIME Helium VAC	NA
General Comments:	1011 62.9 -10	1016 53.4 (14) 1054 55.0 (7)	Dup of 623009-V-75 17 15	1020 61.3 (20) 1109 40 (8)	

Summa Canister Sampling Field Data Sheet

Site: BOWMAX
Samplers: JOHN BOYD URS, TOM FEITA NYSDEC
Date: 7/26/06

Sample #	623009-V-25	623009-V-45			
Location	BOWMAX	BOWMAX			
Summa Canister ID	1809	4405			
Flow Controller ID	40	5071			
Additional Tubing Added	(NO)/ YES - How much	(NO)/ YES - How much	NO/ YES - How much	NO/ YES - How much	NO/ YES - How much
Purge Time (Start)	1825	1845			
Purge Time (Stop)	1830	1850			
Total Purge Time (min)	5 MIN	5 MIN			
Purge Volume	1 LITER	1 LITER			
PID Test of Purge Air	793	250			
Initial Tracer Gas Results	0 PPM.	0 PPM			
Pressure Gauge - before sampling	-30" (-5)	-30			
Sample Time (Start)	1832	1854			
Sample Time (Stop)	1946	1906			
Total Sample Time (min)	74 MIN	12 MIN			
Pressure Gauge - after sampling	-6	-3			
Sample Volume	6 LITER	6 LITER			
Canister Pressure Went To Ambient Pressure?	YES / (NO)	YES / (NO)	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results	8400 PPM	0 PPM.			
Associated Ambient Air Sample Number	NA TIME, Helium. VAC.	NA TIME Helium %			
General Comments:	1902 59.1 (-20) 793 1942 67.8 -6	1905 70.4			

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174772.00002

SITE NAME: BOWMAX

SAMPLERS (PRINT/SIGNATURE): John Boyd

DELIVERY SERVICE: Fed Ex AIRBILL NO.:

LAB: Con-Test

COOLER: 3 Boxes of

PAGE: 1 of 1

TESTS: 10-15

BOTTLE TYPE AND PRESERVATIVE: 6 Liter Summas

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	CANISTER N° / Reg. N°	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
	7/26/06	1433	2hr AIR	623009-V-10S	GS	1	3433 7432	N.	-	-	-
		1508		623009-V-1S	GS	1	1327 5015	N	-	-	-
		~~1530~~		~~623009-V-09S~~			~~1377~~				
		1530		623009-V-9S	GS	1	1379 5040	N.	-	-	-
		1811		623009-V-1S	GS	1	1310 5085	N.	-	-	-
		1832		623009-V-2S	GS	1	1809 40	N.	-	-	-
	↓	1854		623009-V-4S	GS	1	4405 5071	N.	-	-	-
	7/27/06	0902		623009-V-6S	GS	1	3373 5042	N.	-	-	-
		0945		623009-V-7S	GS	1	1374 5047	N.	-	-	-
		1009		623009-V-5S	GS	1	1365 5060	N.	-	-	-
		1202		623009-V-8S	GS	1	1386 5069	N.	-	-	-
	↓	-	↓	20060727-FD-1	GS	1	1368 5054	FR.	-	-	-

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
John Boyd	7/27/06	1420			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Sample NO's 623009-V-4S AND 623009-V-8S Went to Ambient (Almost) in 12 minutes each! Appear to be faulty regulators (all fittings tight). Please Analyze these Samples. We will call to discuss. John Boyd - URS

Distribution: Original accompanies shipment, copy to coordinator field files

ATTACHMENT E

GROUNDWATER SAMPLING RECORDS

AND CHAIN OF CUSTODY FORMS

GRAB GROUNDWATER SAMPLING LOG

Project: BOMAX - NYSDEC Site: BOMAX WATER TOWN, NY I.D.: 623009 GW-1

Date: 7/25/06 Sampling Personnel: JOHN BOYD Company: URS Corporation

Purging/Sampling Device: GEO PUMP Tubing Type: 3/8" POLYETHYLENE Pump/Tubing Inlet Location: 4'

Measuring Point: GRADE Initial Depth to Water: 3.8' Depth to ~~Well~~ Bottom: 4' Boring Diameter: 3" Screen Length: NONE

Casing Type: NONE Volume in 1 Well Casing (liters): NA Estimated Purge Volume (liters): NA

Sample ID: 623009-GW-1 Sample Time: JB 1000 1150 QA/QC: —

Sample Parameters: 8260 B

Remarks:

GRAB SAMPLE FROM OPEN-HOLE GEOPROBE BORING. SAMPLE PUMPED BY GEO PUMP (PERISTALTIC PUMP) & SAMPLED FOR VOCS VIA 8260 B. SAMPLE PLACED IN 2 40ML VIES AND SENT TO MITKEM LABORATORIES IN WARWICK, RI

GRAB GROUNDWATER SAMPLING LOG

623009-GW-2

Project: BOMAX - NYSDEC Site: BOMAX WATERTOWN, NY I.D.:

Date: 7/25/06 Sampling Personnel: JOHN BOYD Company: URS Corporation

Purging/ Sampling Device: GEOPUMP Tubing Type: 3/8" POLYETHYLENE Pump/Tubing Inlet Location: 5.5'

Measuring Point: GRADE Initial Depth to Water: 4.1' Depth to ~~Well~~ Boring Bottom: 5.5 Boring Diameter: 3" Screen Length: NONE

Casing Type: NONE Volume in 1 Well Casing (liters): NA Estimated Purge Volume (liters): NA

Sample ID: 623009-GW-2 Sample Time: 1000 QA/QC: MS/MSD

Sample Parameters: 8260 B

Remarks:

GRAB SAMPLE FROM OPEN-HOLE GEOPROBE BORING. SAMPLE PUMPED BY GEOPUMP (PERISTALTIC PUMP) & SAMPLED FOR VOCS VIA 8260 B. SAMPLE PLACED IN 2 40 ML VIALS AND SENT TO MITKEM LABORATORIES IN WARWICK, RI

GRAB GROUNDWATER SAMPLING LOG

Project: BOMAX - NYSDEC Site: BOMAX WATER TOWN, NY I.D.: 623009-GW-5

Date: 7/25/06 Sampling Personnel: JOHN BOYD Company: URS Corporation

Purging/Sampling Device: GEO PUMP Tubing Type: 3/8" POLYETHYLENE Pump/Tubing Inlet Location: 3.5

Measuring Point: GRADE Initial Depth to Water: 3.2 Depth to ~~Well~~ Bottom: 3.6 Boring Boring Diameter: 3" Screen Length: NONE

Casing Type: NONE Volume in 1 Well Casing (liters): NA Estimated Purge Volume (liters): NA

Sample ID: 623009-GW-5 Sample Time: 1545 QA/QC: —

Sample Parameters: 8260 B

Remarks:

GRAB SAMPLE FROM OPEN-HOLE GEOPROBE BORING. SAMPLE PUMPED BY GEO PUMP (PERISTALTIC PUMP) & SAMPLED FOR VOCS VIA 8260 B. SAMPLE PLACED IN 2 40ML VIALS AND SENT TO MITKEM LABORATORIES IN WARWICK, RI

GRAB GROUNDWATER SAMPLING LOG

Project: BOMAX - NYSDEC Site: BOMAX WATER TOWN, NY I.D.: 623009-GW-7

Date: 7/25/06 Sampling Personnel: John Boyd Company: URS Corporation

Purging/Sampling Device: Geo Pump Tubing Type: 3/8" polyethylene Pump/Tubing Inlet Location: 3.3'

Measuring Point: grade Initial Depth to Water: 3.1 Depth to ~~Well~~ Bottom: 3.3 Boring Diameter: 3" Screen Length: none

Casing Type: none Volume in 1 Well Casing (liters): NA Estimated Purge Volume (liters): NA

Sample ID: 623009-GW- Sample Time: 1650 QA/QC: —

Sample Parameters: 8260 B

Remarks:

GRAB SAMPLE from open-hole geoprobe boring. Sample pumped by Geo pump (peristaltic pump) & sampled for VOCs via 8260 B. Sample placed in 2 40 mL vials and sent to Mitkem Laboratories in Warwick, RI

CHAIN OF CUSTODY RECORD

URS

PROJECT NO.

SITE NAME: BOWMAX - WATERTOWN

SAMPLERS (PRINT/SIGNATURE): JOHN BOYD

DELIVERY SERVICE: FedEx AIRBILL NO.:

LAB: ~~Mitk~~ MITKEM

COOLER 1 of 1

PAGE 1 of 1

TESTS: 8260 B

BOTTLE TYPE AND PRESERVATIVE: 40 ML

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
	7/25/06	1000	GRAB	623009-GW-2	WG	2		N	—	—	—
		1000		623009-GW-2 MS	WG	2		MS	—	—	—
		1000		623-009-GW-2 MSD	WG	2		MSD	—	—	—
		1150		623009-GW-1	WG	2		N	—	—	—
		1545		623009-GW-5	WG	2		N	—	—	—
		1650		623009-GW-7	WG	2		N	—	—	—
		—		Trip Blank	~~—~~	2		TB	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature] 7/25/06	~~7/25~~	1830	[signature]		
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]					

SPECIAL INSTRUCTIONS: Contact Ann Marie Kropovitch at 716 856 5636 if questions.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM