



September 11, 2002

Mr. Roger Murphy
New York State Department of Environmental Conservation
Division of Solid Waste and Hazardous Materials
Bureau of Solid Waste and Corrective Action, 8th Floor
625 Broadway
Albany, New York 12233-8646

Re: Revised Groundwater Flow Maps and Limited Soil Gas Survey Results
Pactiv's Former Macedon, New York Facility

Dear Mr. Murphy:

On Pactiv's behalf, URS Corporation is pleased to provide you with the revised groundwater flow maps and limited soil gas survey results for the former Pactiv facility in Macedon, New York. This submittal is provided in accordance with the revised schedule for submittals summarized in our letter dated August 16, 2002 and is the first of three submittals that had been requested by Ms. Lynn Winterburger of NYSDEC in a letter, dated July 22, 2002, which was sent to Mr. James Wakeman of Pactiv.

Revised Groundwater Flow Maps

The three revised water table maps for water level monitoring rounds completed on November 1, 1999, March 13, 2000, and June 12, 2000 show that the water levels in the canal are hydrogeologically connected to the water levels measured at the onsite wells. The revised water table maps shows that near the canal and the site boundary, water from the canal flows toward the site west of the Building 12 weir, around the weir, and then the water discharges to the canal east of the Building 12 weir.

Limited Soil Gas Survey Results

On July 17, 2002, URS and our subcontractor Zebra Environmental Corp. (Zebra) completed a limited soil gas survey near soil boring MSB-4, which is the only location at the site where PCE was previously detected. Five soil gas samples from four to six feet bgs were collected from four locations surrounding soil boring MSB-4 and analyzed for PCE. PCE was not detected in any of



the five soil gas samples. This suggests that there is not a large area of PCE-impacted soil or groundwater at the site and that the PCE detected at boring MSB-4 is limited in extent.

oOo

If you have any questions or require additional information regarding this submittal please do not hesitate to contact us at the number below or Mr. Richard St. James of Pactiv at 585 393-5062.

Very truly yours,

URS Corporation

Eriko Fujita
Project Geologist

Don Porterfield, P.E.
Manager – Clifton Park

Attachment

- cc: J. Wakeman, Pactiv
R. St. James, Pactiv
G. Casper, NYSDEC
L. Winterburger, NYSDEC
R. Reott, Law Offices of Raymond T. Reott
N. DelForte, Tyco Plastics
J. Bruzzi, ExxonMobil Environmental Remediation



**REVISED WATER TABLE MAPS
SOIL GAS SURVEY
FORMER PACTIV FACILITY
MACEDON, NEW YORK**

SEPTEMBER 11, 2002

Prepared for:

**PACTIV
BAKERSFIELD, CALIFORNIA**

Prepared by:

**URS CORPORATION
646 PLANK ROAD, SUITE. 202
CLIFTON PARK, NY 12065**



September 11, 2002

Mr. James Wakeman
Regional Manager
Environmental, Health and Safety
Pactiv
2024 Norris Road
Bakersfield, California 93308

Re: Revised Water Table Maps
Soil Gas Survey
Former Pactiv Facility
Macedon, New York

Dear Mr. Wakeman:

This letter transmits the three revised water table maps and provides a summary of the limited soil gas survey conducted on July 17, 2002 at the former Pactiv facility in Macedon, New York. This work was conducted in accordance with our proposal, dated June 12, 2002, and reflects discussions during the May 22, 2002 meeting with Mr. Gary Casper of NYSDEC.

1.0 BACKGROUND

The objective of the May 22, 2002 meeting was to discuss the NYSDEC's evaluation of the status of the former Pactiv facility under the RCRA Corrective Action Program following NYSDEC's review of documents related to the site. During the meeting, Mr. Gary Casper of NYSDEC identified two issues for which he requested additional information. These two issues are:

- Groundwater potentiometric surface along the barge canal north of the building.
- Extent of perchloroethylene (PCE) detected at soil boring MSB-4 north of the building.

Pactiv agreed to consider re-evaluating the water level measurements collected on November 1, 1999, March 13, 2000, and June 12, 2000 and revising the potentiometric surface maps to reflect the influence of the water levels in the adjacent barge canal to the onsite water levels. Pactiv also agreed to consider further evaluation of the extent of the PCE near soil boring MSB-4 by conducting a soil gas survey.

2.0 COMPLETED SCOPE OF WORK

The completed scope of work consists of these two tasks.

Task 1 – Revise Three Water Table Maps

Task 2 – Conduct Limited Soil Gas Survey

These two tasks are further described below.

2.1 TASK 1 - REVISE THREE WATER TABLE MAPS

The three revised water table maps from water level monitoring rounds completed on November 1, 1999, March 13, 2000, and June 12, 2000 are provided in Attachment 1. The approximate boundary of the barge canal and the weir near Building 12 were added to the base for the water table maps.

As requested by NYSDEC and Pactiv, the three groundwater flow maps were revised to reflect the influence of the water levels in the adjacent barge canal to the onsite water levels. The water table contour lines and groundwater flow lines were re-drawn to show that the water levels in the canal are hydrogeologically connected to the water levels measured at the onsite wells.

The influence of the canal levels and the water table measurements is most apparent adjacent to the canal where the hydraulic gradients are steep. The revised water table maps shows that near the canal and the site boundary, water from the canal flows toward the site west of the Building 12 weir, around the weir, and then the water discharges to the canal east of the Building 12 weir.

2.2 TASK 2 – CONDUCT LIMITED SOIL GAS SURVEY

On July 17, 2002, URS completed a limited soil gas survey near soil boring MSB-4. The detection of PCE in a soil sample collected from 4 to 6 feet bgs at soil boring MSB-4 is the only indication of PCE at the site. The objective of the soil gas survey was to evaluate whether the PCE previously detected at soil boring MSB-4 is indicative of a larger issue or is an isolated occurrence.

URS' subcontractor Zebra Environmental Corp. (Zebra) used a truck-mounted Geoprobe unit to collect five soil gas samples (SG-1 through SG-5, includes one duplicate) from four locations surrounding soil boring MSB-4. At each soil gas collection location, Zebra advanced the drive point assembly to approximately 5 feet bgs and then retracted the assembly approximately six inches. Clean tubing was then inserted to the bottom of the drive point assembly and the tubing was purged of "stale" air using a vacuum pump. During purging, a photo-ionization detector (PID) was connected to the tubing and the measurements of organic vapors were recorded by URS. The PID readings during purging at each location were all at background level (0.0 ppm).

Following purging, a soil gas sample was collected in one-liter Tedlar bag. The soil gas samples were transported in a cooler (without ice) to Severn Trent Laboratories mobile laboratory in East



Rochester, New York for PCE analysis using Method 8010/8020. The analytical report is provided in Attachment 2.

All sampling tools were decontaminated with an Alconox and water wash between each location. Clean drive points and clean tubing were used at each soil gas sampling location. Each probe hole was backfilled with bentonite chips and the asphalt surface pavement was patched with cold batch asphalt.

Analytical Results

Sample ID	Location	PCE result	Detection Limit (mg/m ³)
SG-1	10 feet south of MSB-4	Not detected	0.020
SG-2	10 feet west of MSB-4	Not detected	0.020
SG-3	10 feet north of MSB-4	Not detected	0.020
SG-4	5 feet east of MSB-4	Not detected	0.020
SG-5 (SG-4 Duplicate)	5 feet east of MSB-4	Not detected	0.020

As shown, there were no detections of PCE in any of the five soil gas samples that were collected from the same approximate depth as the soil sample from soil boring MSB-4. Detections of PCE in the soil gas samples would have indicated the presence of an area of soil or groundwater near soil boring MSB-4 that contained significant concentrations of PCE. Thus, the soil gas results indicate that there is not a large area of PCE-impacted soil near soil boring MSB-4. PCE has not been detected in any of the other soil or groundwater samples collected to date at the site. Therefore, we believe that the PCE detected at boring MSB-4 is limited in extent.

oOo

Please do not hesitate to call me if you should have any questions.

Very truly yours,

URS CORPORATION

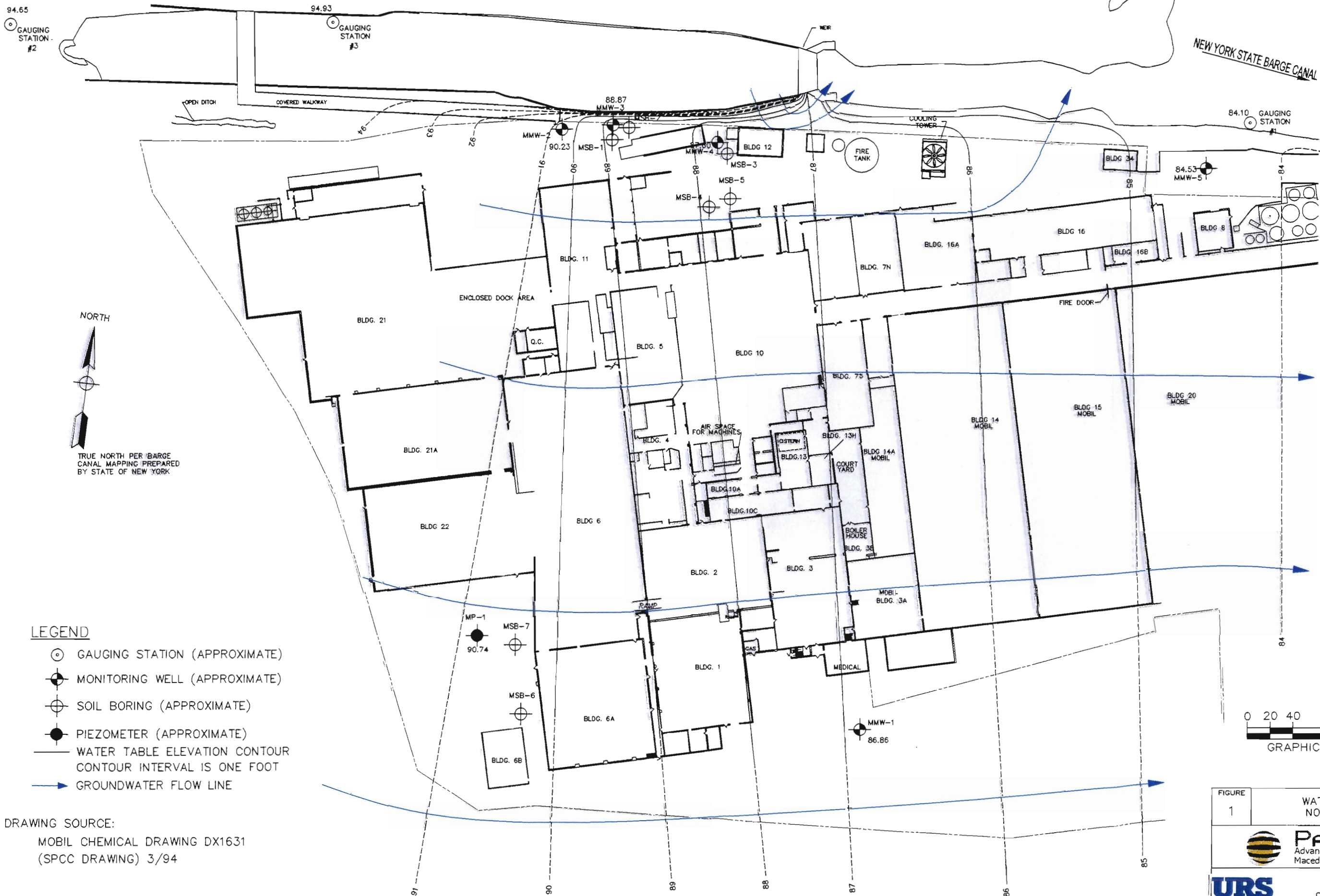
Eriko Fujita
Project Geologist

Don Porterfield, P.E.
Manager – Clifton Park

cc: Dick St. James/Pactiv

ATTACHMENT 1

REVISED WATER TABLE MAPS



TRUE NORTH PER BARGE CANAL MAPPING PREPARED BY STATE OF NEW YORK

LEGEND

- ⊙ GAUGING STATION (APPROXIMATE)
- ⊕ MONITORING WELL (APPROXIMATE)
- ⊕ SOIL BORING (APPROXIMATE)
- PIEZOMETER (APPROXIMATE)
- WATER TABLE ELEVATION CONTOUR
CONTOUR INTERVAL IS ONE FOOT
- ➔ GROUNDWATER FLOW LINE

DRAWING SOURCE:
MOBIL CHEMICAL DRAWING DX1631
(SPCC DRAWING) 3/94

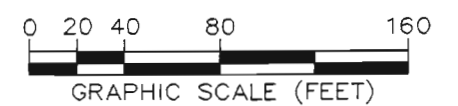


FIGURE 1	WATER TABLE MAP NOVEMBER 1, 1999
 PACTIV Advanced Packaging Solutions Macedon, New York	
 646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065	

93.45
GAUGING STATION #2

93.23
GAUGING STATION #3

NEW YORK STATE BARGE CANAL

83.1
GAUGING STATION #1

NORTH



TRUE NORTH PER BARGE CANAL MAPPING PREPARED BY STATE OF NEW YORK

LEGEND

- GAUGING STATION (APPROXIMATE)
- MONITORING WELL (APPROXIMATE)
- SOIL BORING (APPROXIMATE)
- PIEZOMETER (APPROXIMATE)
- WATER TABLE ELEVATION CONTOUR
CONTOUR INTERVAL IS ONE FOOT
- GROUNDWATER FLOW LINE

DRAWING SOURCE:
MOBIL CHEMICAL DRAWING DX1631
(SPCC DRAWING) 3/94

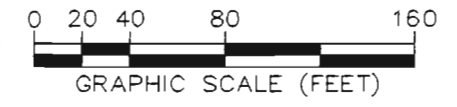
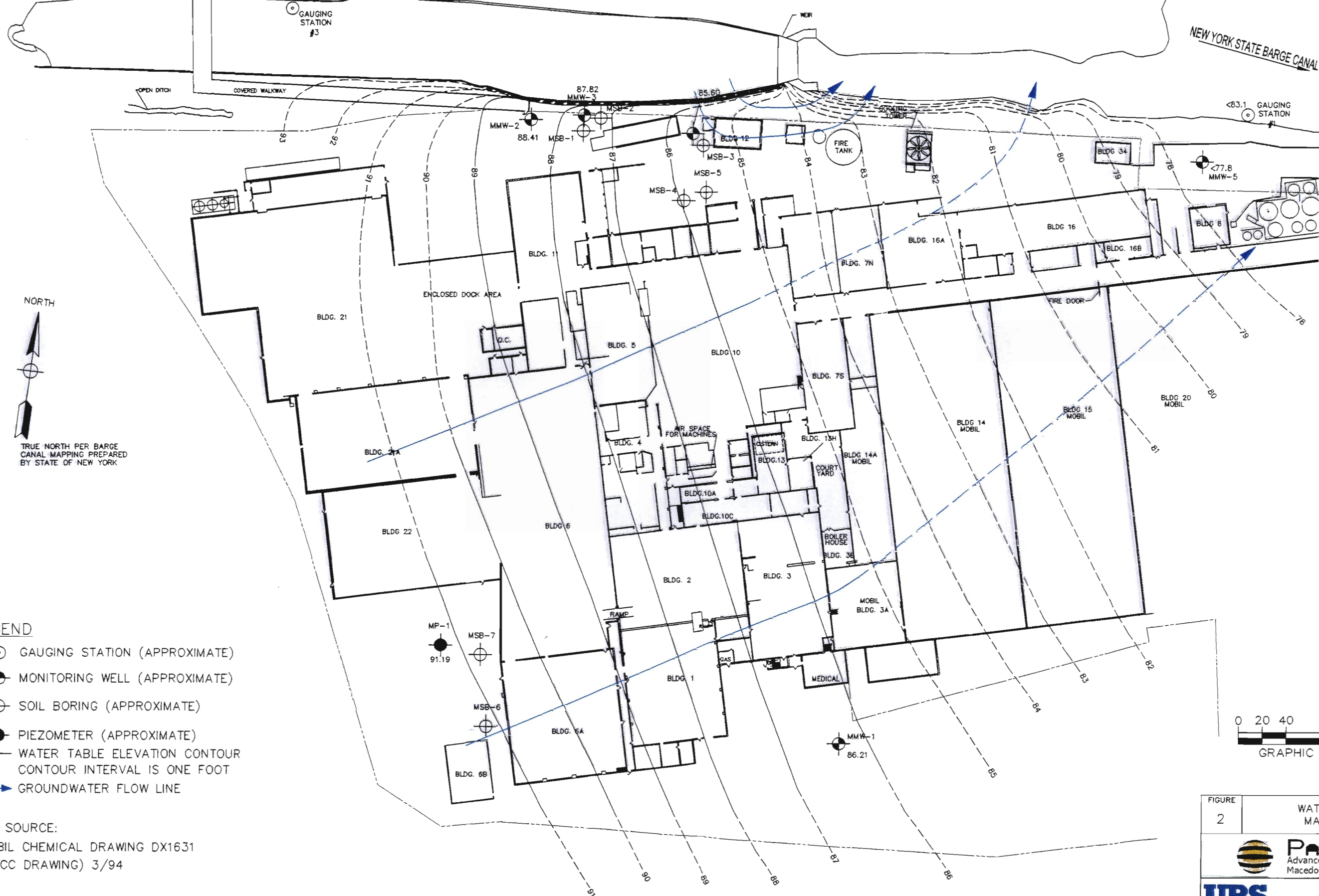


FIGURE 2	WATER TABLE MAP MARCH 13, 2000
PACTIV Advanced Packaging Solutions Macedon, New York	
646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065	

98.75
GAUGING STATION #2

89.32
GAUGING STATION #3

NEW YORK STATE BARGE CANAL

84.39
GAUGING STATION #1

89.22
MMW-3
89.61
MSB-1

84.71
MMW-5



TRUE NORTH PER BARGE CANAL MAPPING PREPARED BY STATE OF NEW YORK

LEGEND

○ GAUGING STATION (APPROXIMATE)

● MONITORING WELL (APPROXIMATE)

⊕ SOIL BORING (APPROXIMATE)

● PIEZOMETER (APPROXIMATE)

— WATER TABLE ELEVATION CONTOUR
CONTOUR INTERVAL IS ONE FOOT

→ GROUNDWATER FLOW LINE

DRAWING SOURCE:

MOBIL CHEMICAL DRAWING DX1631
(SPCC DRAWING) 3/94

MP-1
91.36

MSB-7

MSB-6

BLDG. 6B

MMW-1
87.46

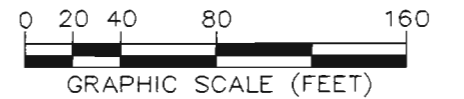


FIGURE 3
WATER TABLE MAP
JUNE 12, 2000

PACTIV
Advanced Packaging Solutions
Macedon, New York

URS

646 PLANK ROAD, SUITE 202
CLIFTON PARK, NEW YORK 12065

POT_SURF_6-12-00

ATTACHMENT 2
ANALYTICAL REPORT

SEVERN

TRENT

SERVICES

STL On-Site Technologies

Westfield Executive Park
53 Southampton Road
Westfield, MA 01085

Tel: 413 572 4000

Fax: 413 572 3707

www.stl-inc.com

02 August 2002

Mr. Eriko Fujita
URS Corporation
646 Plank Road, Suite 202
Clifton Park, NY 12065

RE:

Field Analytical Report

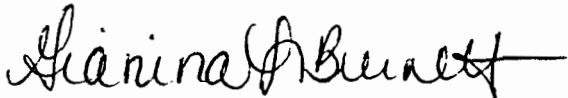
Pactive-Tyco Site – Macedon, NY
July 17, 2002

Dear Mr. Fujita:

Enclosed please find the final results and report for the field analytical project for samples collected at the Pactive-Tyco Site site located in Macedon, NY for samples received on July 17, 2002. This five-section report provides a narrative, a summary of results, the final data results, quality control results and chain-of-custody forms.

It was a pleasure working with you and URS Corporation on this project and we look forward to working together again. If you have any questions on this report, please do not hesitate to contact me directly.

Very truly yours,



Gianina L. Burnett
Project Manager
STL On-Site Technologies

TABLE OF CONTENTS

Section	Title
1.0	Narrative
2.0	Summary of Results
3.0	Data Results
4.0	QC Results
5.0	Chain-of-Custody Forms

SECTION 1.0

Narrative

Narrative

A field investigation was conducted at the Pactive-Tyco Site in Macedon, NY for samples received on July 17, 2002. The intent of this field effort was to measure the levels of contamination in soil gas samples for Volatile Organic Compounds (VOCs - Tetrachloroethene only) by Method 8021.

Sample Analysis - 8021

All samples were analyzed for VOC's using a Hewlett-Packard Model 5890 II Gas Chromatograph (GC) with Electrolytic Conductivity (ELCD) and Photoionization (PID) detectors. An OI Analytical Model 4560 Purge & Trap sample concentrator was used to purge the VOC's from the sample matrix, concentrate them onto a sorbent trap and desorb them onto the GC system. An OI Analytical MPM-16 multi-sampler was used to allow sample analysis to continue while the mobile laboratory was unmanned. The analytical system and parameters are similar to those used in EPA Method 8021. Data was processed on a Pentium-based Personal Computer using HP Chemstation Software. These reports have been reviewed and are presented in Section 3.0 of this report.

Volatile Organics Quality Control - 8021

Listed below is a description of the QC analysis and the acceptance criteria for the volatile organics analysis conducted:

1. Initial Calibration - A 3-point initial calibration was conducted on the analytical system prior to project initiation. The instrument was calibrated and the correlation coefficient (r) calculated for each analyte. For all analytes the (r) value should have been greater than 0.990 or recalibration was performed.
2. Calibration Check Standards - At the beginning of each day, after every 10 samples and at the end of each day a mid-point calibration check standard was analyzed to verify that the analytical sensitivity did not change from the initial calibration. Percent Recovery (%R) values were calculated for each analyte and compared to the 80 - 120% criteria. If the %R value was outside the control limits the analyst noted this on the QC form. If significant variances were observed, the system was recalibrated.

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STL On-Site Technologies

3. ~~QC Standards~~ - A QC standard was analyzed on a daily basis and used to verify the accuracy of the calibration standards. The QC standard was a standard from a ~~second~~ source, other than the calibration standards. %R values were calculated and compared to the 80 - 120% criteria.
4. ~~Method Blanks~~ - A sample of analyte free water was processed at the beginning of the day and after every ten sample analyses to verify that the analytical system was contaminant-free. Concentrations of detected analytes should have been less than 1/2 the method detection limit. Small contaminants may have been noted as detected in the blank and labelled with a "B". Significant contaminant levels necessitate corrective action, i.e. cleaning of the instrument.
5. ~~Surrogate Standards~~ - Surrogate standards were added to all samples, standards and method blanks to measure the potential for matrix interferences. % Recovery values were calculated (appear in the comments section of the data pages) and were compared to the 80 – 120% criteria. Small deviations were marked as outside control limits while large deviations necessitated reanalysis.
6. ~~Matrix Spike/Matrix Spike Duplicate Analyses (MS/MSD)~~ - Five percent (5%) of the samples analyzed on each day were spiked with a mid-level standard. The %R values were calculated and compared to the 70-130% acceptance criteria. Relative Percent Difference values were calculated and compared to the <20% acceptance criteria.

All results are reported as obtained in the field unless otherwise noted above. This information is provided for your use in assessing overall data quality.

SECTION 2.0
Summary of Results

**URS Corporation
Pactive-Tyco - Macedon, NY
July 17, 2002**

VOC's by 8021

<u>ANALYTE</u>	SG-1	SG-2	SG-3	SG-4	SG-5
Dilution Factor	1	1	1	1	1
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

U = Not Detected

All results reported in units of mg/cu.m.

SECTION 3.0

Sample Results

Field Report

PROJECT : Pactive-Tyco
Macedon, NY
CLIENT: D&M/URS
646 Plank Road, Suite 202
Clifton Park, NY 12065
Sample ID: SG-1
GC Sample ID: SG-1 5 ml
W.O. #: NA
Matrix: SOIL GAS
Analyst: CH
File #: 060R0101.D
Instr. #: GC#3
Date Coll: 7/17/02 11:32
Date Analyzed: 7/17/02 16:07
Dilution Factor: 1
Method: 071202P.MTH

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

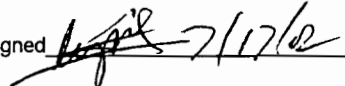
COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

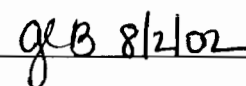
Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed
BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 107 %

Signed  7/17/02

Reviewed  8/2/02

Severn Trent Laboratories

Mobile Laboratory

(413)572-4000

Field Report

PROJECT : Pactive-Tyco
Macedon, NY
CLIENT: D&M/URS
646 Plank Road, Suite 202
Clifton Park, NY 12065
Sample ID: SG-2
GC Sample ID: SG-2 5 ml
W.O. #: NA

Matrix: SOIL GAS
Analyst: CH
File #: 061R0101.D
Instr. #: GC#3
Date Coll: 7/17/02 11:52
Date Analyzed: 7/17/02 16:32
Dilution Factor: 1
Method: 071202P.MTH

RESULTS:

**EPA Method 8010/8020
Gas Chromatography for Volatile Organics**

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 100 %

Signed

[Signature]
Severn Trent Laboratories

Reviewed

[Signature]
Mobile Laboratory

[Signature]
(413)572-4000

Field Report

PROJECT :	Pactive-Tyco Macedon, NY	Matrix	SOIL GAS
CLIENT:	D&M/URS 646 Plank Road, Suite 202 Clifton Park, NY 12065	Analyst	CH
Sample ID:	SG-3	File #:	062R0101.D
GC Sample ID:	SG-3 5 ml	Instr. #:	GC#3
W.O. #:	NA	Date Coll:	7/17/02 12:15
		Date Analyzed:	7/17/02 16:56
		Dilution Factor:	1
		Method:	071202P.MTH

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

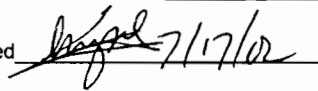
Notes:

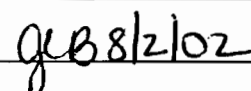
Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 105 %

Signed  7/17/02

Reviewed  8/2/02

Severn Trent Laboratories

Mobile Laboratory

(413)572-4000

Field Report

PROJECT : Pactive-Tyco
Macedon, NY
CLIENT: D&M/URS
646 Plank Road, Suite 202
Clifton Park, NY 12065
Sample ID: SG-4
GC Sample ID: SG-4 5 ml
W.O. #: NA

Matrix: SOIL GAS
Analyst: CH
File #: 063R0101.D
Instr. #: GC#3
Date Coll. 7/17/02 12:29
Date Analyzed: 7/17/02 17:20
Dilution Factor 1
Method: 071202P.MTH

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

Notes:

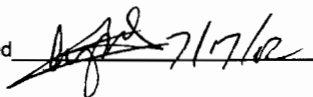
Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

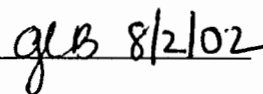
BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 104 %

Signed



Reviewed



Severn Trent Laboratories

Mobile Laboratory

(413)572-4000

Field Report

PROJECT :	Pactive-Tyco Macedon, NY	Matrix:	SOIL GAS
CLIENT:	D&M/URS 646 Plank Road, Suite 202 Clifton Park, NY 12065	Analyst:	CH
Sample ID:	DUP 7/17/02	File #:	064R0101.D
GC Sample ID:	DUP 7/17/02 5 ml	Instr. #:	GC#3
W.O. #:	NA	Date Coll:	7/17/02
		Date Analyzed:	7/17/02 17:44
		Dilution Factor:	1
		Method:	071202P.MTH

RESULTS:

EPA Method 8010/8020 Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

Notes:

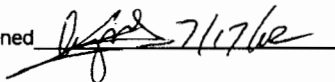
Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

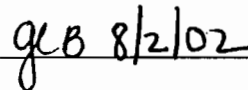
BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 103 %

Signed

 7/17/02

Reviewed

 8/2/02

Severn Trent Laboratories

Mobile Laboratory

(413)572-4000

SECTION 4.0

QC Results

Matrix Spike/Surrogate Recovery Field Report

Analyst: CH
File #: C:\HPCHEM\1\DATA\071702-3\052R0101.D
Instr. #: GC#3
Method: 071202P.MTH
Date Collected: 7/17/02
Date Analyzed: 7/17/02
Sample Name: CCV STD
W.O. #: NA

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
4-Bromofluorobenzene	49	50	99	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Acetone	113	100	113	80	120
Tetrachloroethene	49	50	98	80	120

[Handwritten signature]
7/17/02

[Handwritten signature]
glb8/2/02

Matrix Spike/QC Std. Field Report

Analyst: CH

File #: C:\HPCHEM\1\DATA\071702-3\053R0101.D

Instr. #: GC#3

Method: 071202P.MTH

Date Collected: 7/17/02

Date Analyzed: 7/17/02

Sample Name: QCS STD

W.O. #: NA

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
4-Bromofluorobenzene	49	50	97	80	120

QC Std. Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Acetone	119	100	119	80	120
Tetrachloroethene	46	50	93	80	120

~~CH~~ 7/17/02

gcb 8/2/02

Field Report

PROJECT :	Pactive-Tyco Macedon, NY	Matrix	SOIL GAS
CLIENT:	D&M/URS 646 Plank Road, Suite 202 Clifton Park, NY 12065	Analyst	CH
Sample ID:	<u>m.blank #1 7/17 gas</u>	File #:	<u>059R0101.D</u>
GC Sample ID:	<u>m.blank1 7/17gas</u>	Instr. #:	<u>GC#3</u>
W.O. #:	<u>NA</u>	Date Coll	<u>7/17/02</u>
		Date Analyzed	<u>7/17/02 15:43</u>
		Dilution Factor	<u>1</u>
		Method:	<u>071202P.MTH</u>

RESULTS:

EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

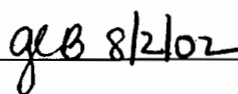
BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 111 %

Signed

 7/17/02

Reviewed

 8/2/02

Severn Trent Laboratories

Mobile Laboratory

(413)572-4000

Matrix Spike/PE Field Report

Analyst: CH
File #: C:\HPCHEM1\DATA\071702-3\066R0101.D
Instr. #: GC#3
Method: 071202P.MTH
Date Collected: 7/17/02
Date Analyzed: 7/17/02
Sample Name: SG-2 5 ml MS
W.O. #: NA

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
4-Bromofluorobenzene	51	50	102	80	120

PE Recovery

Compound	ng	ng sample	ng spiked	% Recovery	Low CL	High CL
Tetrachloroethene	51	ND	50	101	70	130

[Handwritten signature] 7/17/02

[Handwritten signature] 8/2/02

Matrix Spike/PE Field Report

Analyst: CH
File #: C:\HPCHEM\1\DATA\071702-3\067R0101.D
Instr. #: GC#3
Method: 071202P.MTH
Date Collected: 7/17/02
Date Analyzed: 7/17/02
Sample Name: SG-2 5 ml MSD
W.O. #: NA

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
4-Bromofluorobenzene	49	50	98	80	120

PE Recovery

Compound	ng	ng sample	ng spiked	% Recovery	Low CL	High CL	RPD
Tetrachloroethene	46	ND	50	91	70	130	10

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7/18/02

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gub 8/2/02

Matrix Spike/Surrogate Recovery Field Report

Analyst: CH
File #: C:\HPCHEM\1\DATA\071702-3\068R0101.D
Instr. #: GC#3
Method: 071202P.MTH
Date Collected: 7/17/02
Date Analyzed: 7/17/02
Sample Name: CCV STD
W.O. #: NA

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
4-Bromofluorobenzene	51	50	102	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Acetone	120	100	120	80	120
Tetrachloroethene	50	50	100	80	120

gub 8/2/02

CH 7/17/02

Field Report

PROJECT : Pactive-Tyco
Macedon, NY
CLIENT: D&M/URS
646 Plank Road, Suite 202
Clifton Park, NY 12065
Sample ID: m.blank2 7/17 gas
GC Sample ID: m.blank2 7/17gas
W.O. #: NA

Matrix: SOIL GAS
Analyst: CH
File #: 070R0101.D
Instr #: GC#3
Date Coll: 7/17/02
Date Analyzed: 7/17/02 20:04
Dilution Factor: 1
Method: 071202P.MTH

RESULTS: EPA Method 8010/8020
Gas Chromatography for Volatile Organics

COMPOUND	DET. LIMIT mg/cu. m	RESULT mg/cu. m.
Tetrachloroethene	0.020	ND

Notes:

Volatile Organic Compounds analyzed using EPA methods 8010/8020 from Test Methods for Evaluating Solid Waste, SW 846, U.S. E.P.A. Office of Solid Waste and Emergency Response, Washington, D.C., November 1986.

ND = Not Detected
NA = Not Analyzed

BQL = Detected below the minimum quantitation limit
B = Detected in the laboratory blank

Comments: Surrogate Recovery = 94 %

Signed [Signature] 7/18/02

Reviewed [Signature] 8/2/02

Severn Trent Laboratories

Mobile Laboratory

(413)572-4000

Matrix Spike/Surrogate Recovery Field Report

Analyst: CH
File #: C:\HPCHEM\1\DATA\071702-3\081R0101.D
Instr. #: GC#3
Method: 071202P.MTH
Date Collected: 7/18/02
Date Analyzed: 7/18/02
Sample Name: CCV STD
W.O. #: NA

Surrogate Recovery

Compound	ng	ng spiked	% Recovery	Low CL	High CL
4-Bromofluorobenzene	49	50	97	80	120

Matrix Spike

Compound	ng	ng spiked	% Recovery	Low CL	High CL
Acetone	120	100	120	80	120
Tetrachloroethene	45	50	89	80	120

gus 8/2/02

~~WJ~~ 7/18/02


SECTION 5.0

Chain-of-Custody Forms

CHAIN-OF-CUSTODY RECORD

WHITE COPY-Original (Accompanies Samples) YELLOW COPY-Collector PINK COPY-Project Manager

SAMPLE ID	DATE	TIME	SAMPLE MATRIX	SAMPLE BOTTLE SIZE/TYPE/PRES. G=GLASS P=PLASTIC	Total Number of Bottles	Analysis Required										COMMENTS:	Laboratory ID
						VOCs (PCE)	SOZIS (Meth. Fee)										
SG-1	7/17/02	1132	SOIL GAS	Tedlar Bag	1	x											
SG-2	7/17/02	1152	SOIL GAS	Tedlar Bag	1	x											
SG-3	7/17/02	1215	SOIL GAS	Tedlar Bag	1	x											
SG-4	7/17/02	1229	SOIL GAS	Tedlar Bag	1	x											
DUP 7/17/02	7/17/02	—	SOIL GA	Tedlar Bag	1	x											

RELINQUISHED BY: (Signature) <u>SG Sordella</u> DATE/TIME <u>7/17/02 1500</u>	RECEIVED BY: (Signature) _____	JOB NO.: _____
RELINQUISHED BY: (Signature) _____ DATE/TIME _____	RECEIVED BY: (Signature) _____	PROJECT: <u>Positive-Tyco</u>
RELINQUISHED BY: (Signature) _____ DATE/TIME _____	RECEIVED BY: (Signature) <u>[Signature]</u> <u>7/17/02</u>	LOCATION: <u>Macedon, NY</u>
ANALYTICAL LABORATORY: <u>STL</u>		COLLECTOR: <u>Eric Lovenduski</u> DATE OF COLLECTION <u>7/17/02</u>
LABORATORY CONTACT: _____		 646 Plank Road, Suite 202 Clifton Park, NY 12065 (518) 688-0015 Fax (518) 688-0022
D&M CONTACT: <u>Eriko Fujita</u> PHONE: <u>518-688-0015</u>		