**Dvirka and Bartilucci**
CONSULTING ENGINEERS

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July 31, 2006



Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Active Industrial Uniform Site (Site No. 1-52-125)
D&B Work Assignment No. D003600-45
Quarterly Report No. 5 - January 1, 2006 through March 31, 2006
D&B No. 2307-04

Dear Mr. Long:

The purpose of this letter is to summarize the performance of the groundwater extraction and treatment system, located at 63 West Montauk Highway in the Village of Lindenhurst, Suffolk County, New York (see Attachment A, Figure 1), for the period of January 1, 2006 through March 31, 2006. Presented below is a summary of system operations during the quarter, as well as the results of sampling performed in accordance with the work plan for the referenced work assignment.

## Groundwater Extraction and Treatment System Operations

During this period, extraction well RW-1 operated at an average pump rate of approximately 65 gallons per minute (gpm) and extraction well RW-2 operated at an average pump rate of approximately 79 gpm. RW-2 was not in operation from February 12, 2006 through the end of the quarter, due to a faulty wire connection between the treatment building and the well head. Approximately 12,798,800 gallons of treated groundwater were discharged to Little Neck Creek during this period.

During this period, the entire groundwater extraction system was inoperative for approximately 112 hours due to system alarm conditions and routine maintenance. In addition, RW-2 was inoperative for approximately 1,068 hours, due to faulty wiring between the treatment system building and the RW-2 well head. D&B is in the process of obtaining cost estimates to rectify this situation. A description of system alarm conditions is presented in Attachment B. Copies of routine system maintenance reports, as prepared by EnviroTrac, Inc. are presented in Attachment C.

**Groundwater Extraction and Treatment System Sampling (Aqueous)**

Monthly samples were collected from the combined influent sample tap (COMB-INF) and from the treatment system discharge sample tap (COMB-EFF) on January 24, 2006, February 24, 2006 and March 22, 2006. Each sample was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260. The samples collected from the combined influent sample tap were also analyzed for Target Analyte List (TAL) metals by New York State Department of Environmental Conservation (NYSDEC) 6/00 Analytical Services Protocol (ASP) Method ILM04.0 and for pH by USEPA Method 9040.

Quarterly samples were to be collected on March 22, 2006 from both extraction wells (RW-1 and RW-2), the sample tap located between the two air strippers (AS-MID) and from the treatment system discharge sample tap. However, since RW-2 was not in operation, the sample from RW-2 was not collected and the sample for RW-1 was collected from the combined influent sample tap. The treatment system discharge sample was also analyzed for TAL metals by NYSDEC 6/00 ASP Method ILM04.0.

Sample results are presented in Attachment D. The sample results from the air stripper discharge are compared to the site-specific effluent limits. As can been seen from the summary report in Attachment E, all results for the period were below effluent limits. Approximately 45 pounds of total VOCs were removed from the extracted groundwater during the period. The average total VOC removal efficiency for this quarter was approximately 99 percent. Refer to Attachment E for a summary of the extraction and treatment system performance results for this period.

**Groundwater Extraction and Treatment System Sampling (Air)**

Air samples were collected from the influent sample tap (VPCV-INF), the sample tap located between the carbon vessels (VPCV-MID) and the vapor phase carbon adsorption system effluent sample tap (VPCV-EFF) on January 24, 2006, February 24, 2006 and March 22, 2006. Each sample was analyzed for VOCs by USEPA Method TO-15.

Sample results are presented in Attachment D. The results of the vapor phase carbon adsorption system discharge samples are compared to the site-specific effluent limits. All air discharge results were below effluent limits for the period.

**Groundwater Quality Data**

The network of monitoring wells was sampled to determine groundwater quality at, and in the vicinity of, the site. Samples were collected from eight on-site monitoring wells (MW-101 through MW-108) and two off-site monitoring wells (MW-109 and MW-111) on March 13 and 14, 2006, and analyzed for VOCs by USEPA Method 8260. Monitoring well MW-110 could not

be located and has reportedly been paved over and, as a result, was not sampled. The locations of the on-site monitoring wells are shown in Figure 2 in Attachment A. The locations of the off-site monitoring wells are shown in Figure 3 in Attachment A.

The sample results from the monitoring wells are presented in Attachment D, in comparison to the NYSDEC Class GA groundwater standards and guidance values. Concentrations of total VOCs detected in the on-site monitoring wells ranged from non-detect to 362 micrograms per liter (ug/l). Three on-site monitoring wells (MW-103, MW-104, and MW-106) contained at least one VOC at a concentration above the standards or guidance values. Monitoring well MW-106 contained the greatest concentration of total VOCs (362 ug/l), with vinyl chloride (VC), cis-1,2-dichlorethene (cis-1,2-DCE), trichloroethene (TCE) and tetrachloroethene (PCE) detected at concentrations exceeding standards. No VOCs were detected at concentrations above standards or guidance values in on-site monitoring wells MW-101, MW-102, MW-105, MW-107 or MW-108.

Concentrations of total VOCs detected in off-site monitoring wells MW-109 and MW-111 were 17 ug/l and nondetect, respectively. Tetrachloroethene was detected at 6 ug/l in MW-109, slightly above the standard of 5 ug/l. Attachment F includes graphs which summarize historic concentrations of VC, 1,2-DCE, TCE, PCE and total VOCs detected in the on-site and off-site monitoring wells.

**Data Validation**

The data packages submitted by Mitkem Corporation (Mitkem) have been reviewed for completeness and compliance with NYSDEC ASP Quality Assurance/Quality Control (QA/QC) requirements. The air samples were subcontracted by Mitkem to STL Vermont, a New York State Department of Health (NYSDOH) certified air laboratory. All sample results have been deemed valid and usable for environmental assessment purposes as qualified below:

- All samples were analyzed within the method specified holding times and all QA/QC requirements (surrogate recoveries, calibrations, blanks, etc.) were met.

- COMB INF samples collected on February 24, 2006 and March 22, 2006 required reanalysis at secondary dilutions due to concentrations of PCE exceeding the instrument calibration range. The results have been taken from the diluted analyses and are flagged "D" on the data summary tables.

- Similarly, the samples collected from MW-106 required reanalysis at a secondary dilution due to concentrations of cis-1,2-DCE exceeding the instrument calibration range. The cis-1,2-DCE result has been taken from the diluted analysis and is flagged "D" on the data summary table.

## Conclusions

Based on the results of performance monitoring conducted during the period, we offer the following conclusions:

- The results of system influent samples show that the combined flow extraction wells RW-1 and RW-2, when operating, are continuing to capture VOC-contaminated groundwater.
- The results of liquid discharge samples show that the air stripping towers are effectively removing the captured VOCs to concentrations below the discharge criteria.
- The results of vapor discharge samples show that the vapor phase carbon vessels are effectively removing VOCs to concentrations below their respective discharge limits.
- Three of the eight on-site monitoring wells contain at least one VOC at a concentration exceeding its NYSDEC Class GA groundwater standard.
- Off-site monitoring well MW-109 contained a tetrachloroethene concentration of 6 ug/l slightly exceeding the NYSDEC Class GA groundwater standard of 5 ug/l.
- Continue efforts to obtain cost estimates to diagnose and repair the faulty wiring between the treatment system building and the RW-2 well head. NYSDEC is currently allocating funds to perform required repairs.

## Recommendations

Based on the results of performance monitoring performed during the period, we offer the following recommendations:

- Continued operation of the groundwater extraction and treatment system is recommended to minimize downgradient migration of site-related contaminants currently being captured by the system.
- Continued groundwater monitoring through the existing monitoring well network is recommended to determine contaminant concentration trends over time and to evaluate the effectiveness of the remediation system.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

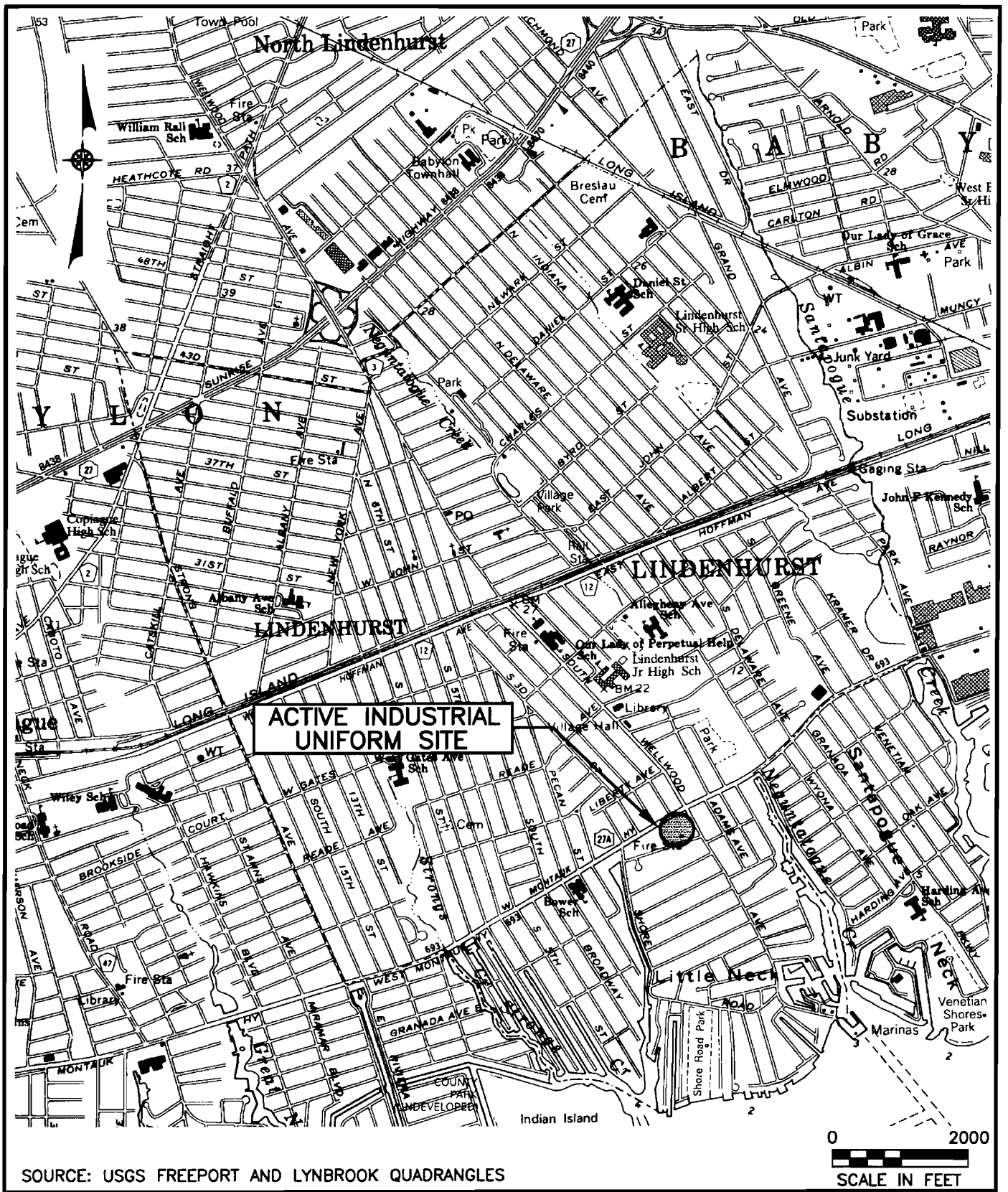
Frank DeVita
Project Manager

FD/MDW/all
Attachments
cc: J. Trad (NYSDEC)
M. Wright (D&B)
♦2307\FD05156JET.DOC(R06)

# ATTACHMENT A

# FIGURES

F:\2307\Active Industrial Uniform Site\Quarterly Report No. 1\FIGURE 1.dwg, 05/24/05 11:51:44 AM, FDeVita



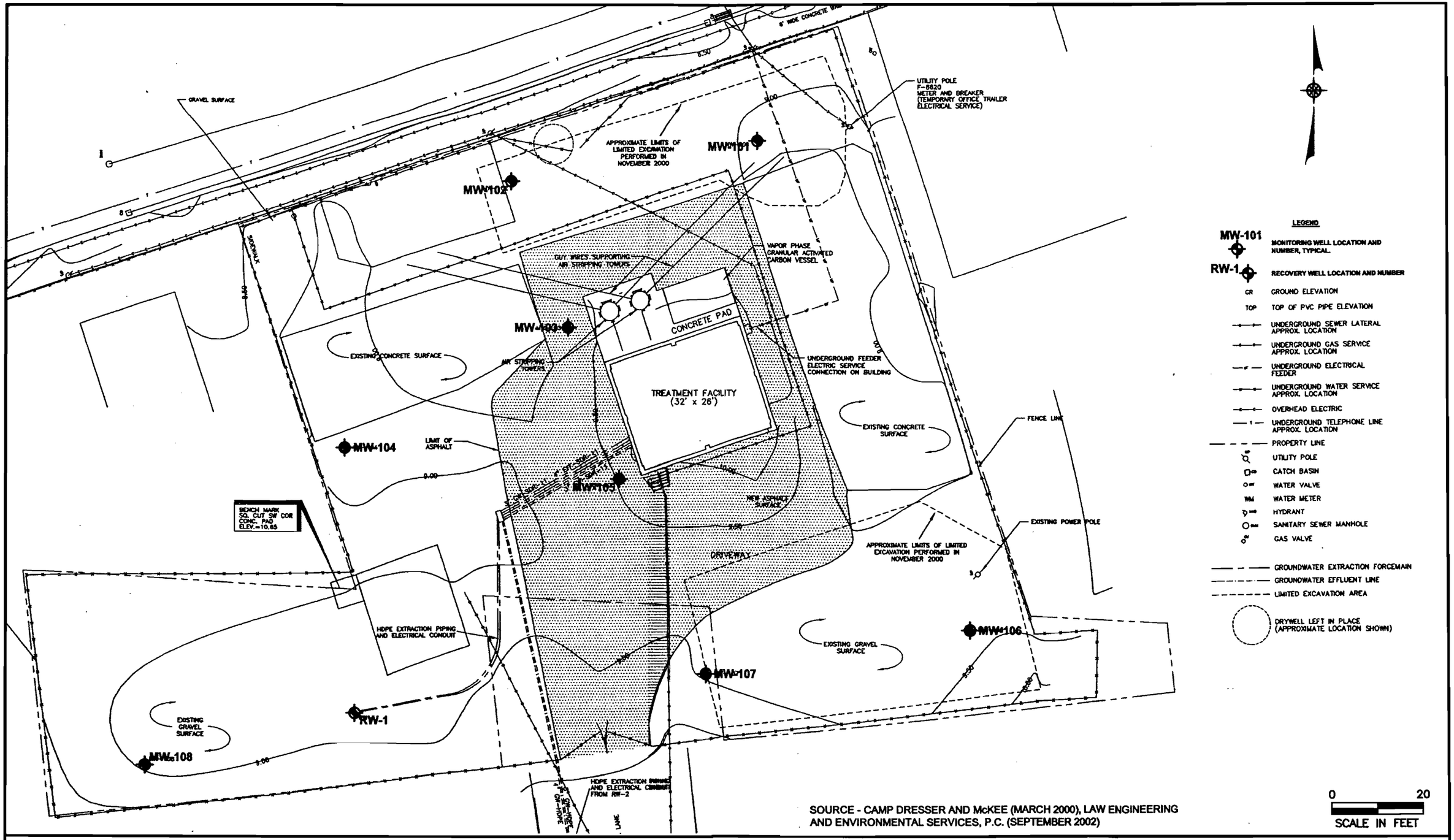

SOURCE: USGS FREEPORT AND LYNBROOK QUADRANGLES

ACTIVE INDUTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

**PROJECT SITE LOCATION MAP**

FIGURE 1

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.




SOURCE - CAMP DRESSER AND McKEE (MARCH 2000), LAW ENGINEERING AND ENVIRONMENTAL SERVICES, P.C. (SEPTEMBER 2002)

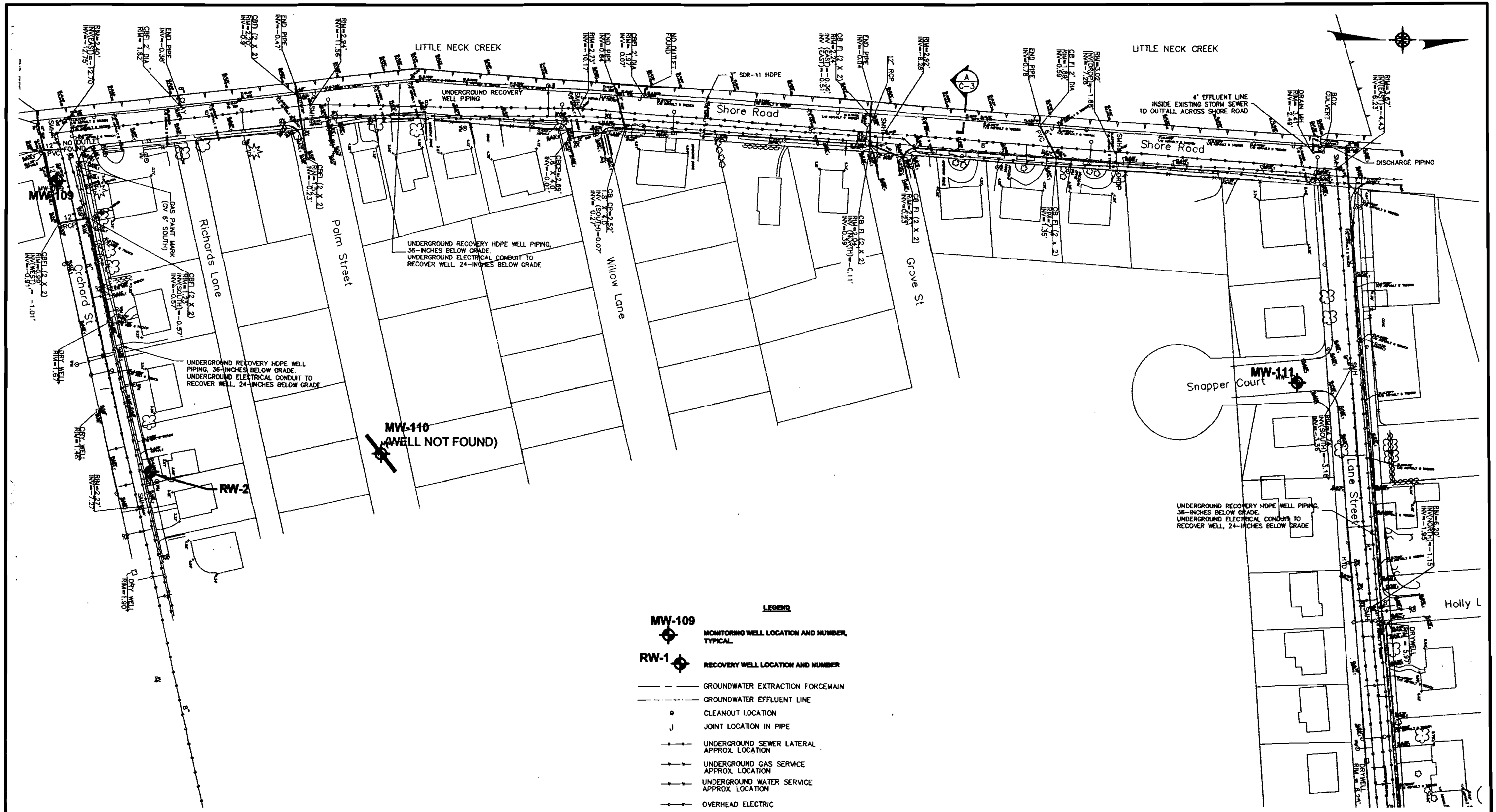
ACTIVE INDUTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

## ON-SITE MONITORING WELL LOCATION MAP

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE 2

F:\2307\Active Industrial Uniform Site\Quarterly Report No. 1\FIGURE 2.dwg, Layout1, 06/03/05 12:39:51 PM, DCortes




**LEGEND**

- **MW-109** — MONITORING WELL LOCATION AND NUMBER, TYPICAL
- **RW-1** — RECOVERY WELL LOCATION AND NUMBER
- GROUNDWATER EXTRACTION FORCEMAIN
- GROUNDWATER EFFLUENT LINE
- CLEANOUT LOCATION
- J — JOINT LOCATION IN PIPE
- UNDERGROUND SEWER LATERAL APPROX. LOCATION
- UNDERGROUND GAS SERVICE APPROX. LOCATION
- UNDERGROUND WATER SERVICE APPROX. LOCATION
- OVERHEAD ELECTRIC

SOURCE - CAMP DRESSER AND McKEE (MARCH 2000), LAW ENGINEERING AND ENVIRONMENTAL SERVICES, P.C. (SEPTEMBER 2002)

ACTIVE INDUTRIAL UNIFORM SITE
VILLAGE OF LINDENHURST, NEW YORK

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

# OFF-SITE MONITORING WELL LOCATION MAP

FIGURE 3

F:\2307\Active Industrial Uniform Site\Quarterly Report No. 1\FIGURE 3.dwg, Layout1, 06/03/05 12:39:21 PM, DCortes

# ATTACHMENT B

# DESCRIPTION OF SYSTEM ALARM CONDITIONS

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**SUMMARY OF SYSTEM DOWNTIME**

| SHUT-OFF DATE/TIME | RESTART DATE/TIME | CAUSE FOR SHUTDOWN |
|---|---|---|
| 1/30/06 8:58 AM | 1/30/06 9:53 AM | System Maintenance - Shutdown system for scheduled filter cartridge changeout. |
| 2/1/06 5:46 PM | 2/2/06 8:56 PM | Alarm condition #3 & #5 - High level in air stripper #1. Drained both sumps to low level and restarted system. |
| 2/12/06 12:00 AM | -- | Estimated malfunction date for extraction well RW-2 based on total gallons pumped for RW-2, recorded on 1/24/06 and 2/24/06. RW-2 was not in operation for the remainder of the 1st quarter. |
| 2/21/06 2:18 PM | 2/24/06 2:40 PM | System Error - Extraction well RW-2 down upon arrival at site, but RW-1 was still running. Turned off system and reset circuit breaker for both extraction wells. Restarted system. Extraction well RW-1 failed due to "overcurrent" error from the control panel and RW-2 failed due to "phase" error from the control panel. Returned to site on 2/24/06 with EnviroTrac to troubleshoot extraction well problems. Extraction well RW-1 error was a result of incorrect wiring to the control panel. Extraction well RW-2 error likely due to a faulty wire connection between the treatment system building and the RW-2 well head. Restarted extraction well RW-1 only. |
| 3/1/06 9:09 PM | 3/2/06 9:05 AM | Alarm condition #3 & #5 - High level in air stripper #1 due to VFD #1 and VFD #2 underload condition. Reset both VFD #1 and VFD #2. Drained both sumps to low level and restarted extraction well RW-1 only. |
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**NOTES:**

1. Maintenance events performed by EnviroTrac Ltd.

# ATTACHMENT C

# SYSTEM MAINTENANCE REPORT

# MAINTENANCE AND INSPECTION REPORT
## ACTIVE INDUSTRIAL SITE, LINDENHURST, NY

| Date: January 30, 2006 | | | | |
|---|---|---|---|---|
| Name of Personnel Onsite | Title | Time Arrived | Time Departed | Total Hours |
| Steve Sussman | Sr. Technician | 15:00 | 16:30 | 1.5 onsite / 1.5 prep and travel |
| | | | | |
| | | | | |
| | | | | |

Check off Items that were completed:

- ☐ Snow Removal
- ☐ Pressure Blower Maintenance
- ☐ Pressure Blower Fan Wheel Replacement
- ☐ Transfer Pump Maintenance
- ☐ Air Stripper Maintenance
- ☐ Carbon Removal and Replacement
- ☐ Remove and Replace Air Stripper Packing
- X Solids Filtration System Maintenance
- ☐ Non-routine Maintenance
- ☐ Other

Work Completed:

Remove and replace the solids filtration cartridges.

| Name of Part / Supply / Material | Manufacturer / Supplier | Model Number | Quantity Used |
|---|---|---|---|
| 50 micron Particulate filter | Nugent and Potter | EFP 50 | 75 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Description of Waste | Volume of Waste | Disposal Facility Name & Address | Transporter Name & Address | Method of Disp. |
|---|---|---|---|---|
| No regulated waste generated | | | | |
| | | | | |
| | | | | |

In signing this I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between EnviroTrac Ltd., and Dvirka and Bartilucci.

James Wilkinson. Signature / Print / Date James Wilkinson 3/16/06

# MAINTENANCE AND INSPECTION REPORT
## ACTIVE INDUSTRIAL SITE, LINDENHURST, NY

| Date: February 24, 2006 | | | | |
|---|---|---|---|---|
| Name of Personnel Onsite | Title | Time Arrived | Time Departed | Total Hours |
| Orazio Levanti | Sr. Engineer | 8:30 | 16:30 | 8 onsite / 1 prep and travel |
| | | | | |
| | | | | |
| | | | | |

Check off Items that were completed:

- ☐ Snow Removal
- ☐ Pressure Blower Maintenance
- ☐ Pressure Blower Fan Wheel Replacement
- ☐ Transfer Pump Maintenance
- ☐ Air Stripper Maintenance
- ☐ Carbon Removal and Replacement
- ☐ Remove and Replace Air Stripper Packing
- ☐ Solids Filtration System Maintenance
- X Non-routine Maintenance
- ☐ Other

Work Completed:

Troubleshooting RW-1 and RW-2 pump failures.
Corrected wiring for RW-1 pump in control panel.
Diagnosed RW-2 pump problem – electrical conduit, wiring and junction box in well vault need to be replaced.

| Name of Part / Supply / Material | Manufacturer / Supplier | Model Number | Quantity Used |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Description of Waste | Volume of Waste | Disposal Facility Name & Address | Transporter Name & Address | Method of Disp. |
|---|---|---|---|---|
| No regulated waste generated | | | | |
| | | | | |
| | | | | |

In signing this I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between EnviroTrac Ltd., and Dvirka and Bartilucci.

James Wilkinson . Signature / Print / Date James Wilkinson 3/16/06

# ATTACHMENT D

# ANALYTICAL RESULTS

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF SYSTEM COMBINED INFLUENT ANALYSIS - VOLATILE ORGANIC COMPOUNDS (VOCs)**

| SAMPLE ID | COMB INF | COMB INF | COMB INF | | | | | NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L) |
|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | WATER | WATER | | | | | |
| DATE OF COLLECTION | 1/24/06 | 2/24/06 | 3/22/06 | | | | | |
| COLLECTED BY | D&B | D&B | D&B | | | | | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | | | | | |
| ***VOCs*** | | | | | | | | |
| Dichlorodifluoromethane | U | U | U | | | | | 5 GV |
| Chloromethane | U | U | U | | | | | -- |
| Vinyl chloride | U | U | U | | | | | 2 ST |
| Bromomethane | U | U | U | | | | | 5 ST |
| Chloroethane | U | U | U | | | | | 5 ST |
| Trichlorofluoromethane | U | U | U | | | | | 5 ST |
| 1,1-Dichloroethene | U | U | U | | | | | 5 ST |
| Acetone | U | U | U | | | | | 50 GV |
| Iodomethane | U | U | U | | | | | -- |
| Carbon disulfide | U | U | U | | | | | 60 GV |
| Methylene chloride | U | U | U | | | | | 5 ST |
| trans 1,2-Dichloroethene | U | U | U | | | | | 5 ST |
| Methyl-tert butyl ether | 4 J | 2 J | U | | | | | 10 GV |
| 1,1-Dichloroethane | 1 J | U | U | | | | | 5 ST |
| Vinyl acetate | U | U | U | | | | | -- |
| 2-Butanone | U | U | U | | | | | 50 GV |
| cis-1,2-Dichloroethene | 62 | 65 | 130 | | | | | 5 ST |
| 2,2-Dichloropropane | U | U | U | | | | | 5 ST |
| Bromochloromethane | U | U | U | | | | | 5 ST |
| Chloroform | U | U | U | | | | | 7 ST |
| 1,1,1-Trichloroethane | U | U | U | | | | | 5 ST |
| 1,1-Dichloropropene | U | U | U | | | | | 5 ST |
| Carbon tetrachloride | U | U | U | | | | | 5 ST |
| 1,2-Dichloroethane | U | U | U | | | | | 0.6 ST |
| Benzene | U | U | U | | | | | 1 ST |
| Trichloroethene | 41 | 73 | 100 | | | | | 5 ST |
| 1,2-Dichloropropane | U | U | U | | | | | 1 ST |
| Bromodichloromethane | U | U | U | | | | | 5 ST |
| cis-1,3-Dichloropropene | U | U | U | | | | | 0.4 ST |
| 4-Methyl-2-pentanone | U | U | U | | | | | -- |
| Toluene | U | U | U | | | | | 5 ST |
| trans-1,3-Dichloropropene | U | U | U | | | | | 0.4 ST |
| 1,1,2-Trichloroethane | U | U | U | | | | | 1 ST |
| 1,3-Dichloropropane | U | U | U | | | | | 5 ST |
| Tetrachloroethene | 150 | 250 D | 310 D | | | | | 5 ST |
| 2-Hexanone | U | U | U | | | | | 50 GV |
| Dibromochloromethane | U | U | U | | | | | 50 GV |
| 1,2-Dibromoethane | U | U | U | | | | | 5 ST |
| Chlorobenzene | U | U | U | | | | | 5 ST |
| 1,1,1,2-Tetrachloroethane | U | U | U | | | | | 5 ST |
| Ethylbenzene | U | U | U | | | | | 5 ST |
| Xylene (total) | U | U | U | | | | | 5 ST |
| Styrene | U | U | U | | | | | 5 ST |
| Bromoform | U | U | U | | | | | 50 GV |
| Isopropylbenzene | U | U | U | | | | | 5 ST |
| 1,1,2,2-Tetrachloroethane | U | U | U | | | | | 5 ST |
| Bromobenzene | U | U | U | | | | | 5 ST |
| 1,2,3-Trichloropropane | U | U | U | | | | | 0.04 ST |
| n-Propylbenzene | U | U | U | | | | | 5 ST |
| 2-Chlorotoluene | U | U | U | | | | | 5 ST |
| 1,3,5-Trimethylbenzene | U | U | U | | | | | 5 ST |
| 4-Chlorotoluene | U | U | U | | | | | 5 ST |
| tert-Butylbenzene | U | U | U | | | | | 5 ST |
| 1,2,4-Trimethylbenzene | U | U | U | | | | | 5 ST |
| sec-Butylbenzene | U | U | U | | | | | 5 ST |
| 4-Isopropyltoluene | U | U | U | | | | | 5 ST |
| 1,3-Dichlorobenzene | U | U | U | | | | | 3 ST |
| 1,4-Dichlorobenzene | U | U | U | | | | | 3 ST |
| n-Butylbenzene | U | U | U | | | | | 5 ST |
| 1,2-Dichlorobenzene | U | U | U | | | | | 3 ST |
| 1,2-Dibromo-3-chloropropane | U | U | U | | | | | 0.04 ST |
| 1,2,4-Trichlorobenzene | U | U | U | | | | | 5 ST |
| Hexachlorobutadiene | U | U | U | | | | | 0.5 ST |
| Naphthalene | U | U | U | | | | | 10 GV |
| 1,2,3-Trichlorobenzene | U | U | U | | | | | 5 ST |
| ***Total VOCs*** | 258 | 390 | 540 | | | | | |

**NOTES:**

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

**ABBREVIATIONS**

ug/L = Micrograms per liter
--: Not established
ST: Standard Value
GV: Guidance Value

**QUALIFIERS:**

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
D*: Result taken from reanalysis at a secondary dilution. Results qualified as estimated due to validation criteria

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF SYSTEM COMBINED INFLUENT ANALYSIS - INORGANIC COMPOUNDS AND GENERAL CHEMISTRY**

| SAMPLE ID | COMB INF | COMB INF | COMB INF | | | | | NYSDEC Site Specific Effluent Limitation |
|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | WATER | WATER | | | | | |
| DATE OF COLLECTION | 1/24/06 | 2/24/06 | 3/22/06 | | | | | |
| COLLECTED BY | D&B | D&B | D&B | | | | | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | | | | | |
| ***INORGANIC COMPOUNDS*** | | | | | | | | (ug/L) |
| Aluminum | U | U | U | | | | | 4,000 |
| Antimony | U | U | 3 B | | | | | NL |
| Arsenic | U | U | U | | | | | 140 |
| Barium | 27.5 B | 23.1 B | 20.2 B | | | | | NL |
| Beryllium | U | U | U | | | | | NL |
| Cadmium | 0.44 B | U | 0.21 B | | | | | 30 |
| Calcium | 95,300 | 22,200 | 23,300 | | | | | NL |
| Chromium | U | 0.48 B | U | | | | | NL |
| Cobalt | 1.3 B | 1.9 B | 1.2 B | | | | | NL |
| Copper | 16.0 B | 18.7 B | 7.7 B | | | | | 38 |
| Iron | 709 | 484 | 198 | | | | | 4,000 |
| Lead | U | 2.2 B | 2.6 B | | | | | NL |
| Magnesium | 107,000 | 4,030 B | 4,080 B | | | | | NL |
| Manganese | 2,070 | 1,380 | 1,360 | | | | | 2,000 |
| Nickel | 1.8 B | 2.2 B | 1.6 B | | | | | 65 |
| Potassium | 30,300 | 3,140 B | 2,810 B | | | | | NL |
| Selenium | U | U | U | | | | | NL |
| Silver | U | 1.8 B | U | | | | | 9 |
| Sodium | 894,000 E | 20,900 | 23,400 | | | | | NL |
| Thallium | U | 4.5 B | 3.4 B | | | | | NL |
| Vanadium | U | 0.42 B | U | | | | | NL |
| Zinc | 31.9 | 38.0 | 31.2 | | | | | 370 |
| Mercury | U | U | U | | | | | NL |
| ***GENERAL CHEMISTRY*** | | | | | | | | |
| pH (S.U.) | 6.3 | 6.1 | 6.1 | | | | | 6 - 9 |

**ABBREVIATIONS:**
ug/L: Micrograms per liter

**QUALIFIERS:**
B: Analyte detected greater than IDL, but less than CRDL.
U: Compound analyzed for but not detected.

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF ANALYSIS OF SAMPLES COLLECTED BETWEEN AIR STRIPPERS - VOLATILE ORGANIC COMPOUNDS (VOCs)**

| SAMPLE ID | AS-MID | | | | | | | NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L) |
|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | | | | | | | |
| DATE OF COLLECTION | 3/22/06 | | | | | | | |
| COLLECTED BY | D&B | | | | | | | |
| UNITS | (ug/L) | | | | | | | |
| ***VOCs*** | | | | | | | | |
| Dichlorodifluoromethane | U | | | | | | | 5 GV |
| Chloromethane | U | | | | | | | -- |
| Vinyl chloride | U | | | | | | | 2 ST |
| Bromomethane | U | | | | | | | 5 ST |
| Chloroethane | U | | | | | | | 5 ST |
| Trichlorofluoromethane | U | | | | | | | 5 ST |
| 1,1-Dichloroethene | U | | | | | | | 5 ST |
| Acetone | U | | | | | | | 50 GV |
| Iodomethane | U | | | | | | | -- |
| Carbon disulfide | U | | | | | | | 60 GV |
| Methylene chloride | U | | | | | | | 5 ST |
| trans 1,2-Dichloroethene | U | | | | | | | 5 ST |
| Methyl-tert butyl ether | U | | | | | | | 10 GV |
| 1,1-Dichloroethane | U | | | | | | | 5 ST |
| Vinyl acetate | U | | | | | | | -- |
| 2-Butanone | U | | | | | | | 50 GV |
| cis-1,2-Dichloroethene | U | | | | | | | 5 ST |
| 2,2-Dichloropropane | U | | | | | | | 5 ST |
| Bromochloromethane | U | | | | | | | 5 ST |
| Chloroform | U | | | | | | | 7 ST |
| 1,1,1-Trichloroethane | U | | | | | | | 5 ST |
| 1,1-Dichloropropene | U | | | | | | | 5 ST |
| Carbon tetrachloride | U | | | | | | | 5 ST |
| 1,2-Dichloroethane | U | | | | | | | 0.6 ST |
| Benzene | U | | | | | | | 1 ST |
| Trichloroethene | U | | | | | | | 5 ST |
| 1,2-Dichloropropane | U | | | | | | | 1 ST |
| Bromodichloromethane | U | | | | | | | 5 ST |
| cis-1,3-Dichloropropene | U | | | | | | | 0.4 ST |
| 4-Methyl-2-pentanone | U | | | | | | | -- |
| Toluene | U | | | | | | | 5 ST |
| trans-1,3-Dichloropropene | U | | | | | | | 0.4 ST |
| 1,1,2-Trichloroethane | U | | | | | | | 1 ST |
| 1,3-Dichloropropane | U | | | | | | | 5 ST |
| Tetrachloroethene | U | | | | | | | 5 ST |
| 2-Hexanone | U | | | | | | | 50 GV |
| Dibromochloromethane | U | | | | | | | 50 GV |
| 1,2-Dibromoethane | U | | | | | | | 5 ST |
| Chlorobenzene | U | | | | | | | 5 ST |
| 1,1,1,2-Tetrachloroethane | U | | | | | | | 5 ST |
| Ethylbenzene | U | | | | | | | 5 ST |
| Xylene (total) | U | | | | | | | 5 ST |
| Styrene | U | | | | | | | 5 ST |
| Bromoform | U | | | | | | | 50 GV |
| Isopropylbenzene | U | | | | | | | 5 ST |
| 1,1,2,2-Tetrachloroethane | U | | | | | | | 5 ST |
| Bromobenzene | U | | | | | | | 5 ST |
| 1,2,3-Trichloropropane | U | | | | | | | 0.04 ST |
| n-Propylbenzene | U | | | | | | | 5 ST |
| 2-Chlorotoluene | U | | | | | | | 5 ST |
| 1,3,5-Trimethylbenzene | U | | | | | | | 5 ST |
| 4-Chlorotoluene | U | | | | | | | 5 ST |
| tert-Butylbenzene | U | | | | | | | 5 ST |
| 1,2,4-Trimethylbenzene | U | | | | | | | 5 ST |
| sec-Butylbenzene | U | | | | | | | 5 ST |
| 4-Isopropyltoluene | U | | | | | | | 5 ST |
| 1,3-Dichlorobenzene | U | | | | | | | 3 ST |
| 1,4-Dichlorobenzene | U | | | | | | | 3 ST |
| n-Butylbenzene | U | | | | | | | 5 ST |
| 1,2-Dichlorobenzene | U | | | | | | | 3 ST |
| 1,2-Dibromo-3-chloropropane | U | | | | | | | 0.04 ST |
| 1,2,4-Trichlorobenzene | U | | | | | | | 5 ST |
| Hexachlorobutadiene | U | | | | | | | 0.5 ST |
| Naphthalene | U | | | | | | | 10 GV |
| 1,2,3-Trichlorobenzene | U | | | | | | | 5 ST |
| ***Total VOCs*** | U | | | | | | | |

**NOTES:**

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

**ABBREVIATIONS**

ug/L = Micrograms per liter
--: Not established
ST: Standard Value
GV: Guidance Value

**QUALIFIERS:**

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF SYSTEM EFFLUENT ANALYSIS - VOLATILE ORGANIC COMPOUNDS (VOCs)**

| SAMPLE ID | COMB EFF | COMB EFF | COMB EFF | | | | | NYSDEC Site Specific Effluent Limitation |
|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | WATER | WATER | | | | | |
| DATE OF COLLECTION | 1/24/06 | 2/24/06 | 3/22/06 | | | | | |
| COLLECTED BY | D&B | D&B | D&B | | | | | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | | | | | |
| *VOCs* | | | | | | | | (ug/L) |
| Dichlorodifluoromethane | U | U | U | | | | | NL |
| Chloromethane | U | U | U | | | | | NL |
| Vinyl chloride | U | U | U | | | | | 10 |
| Bromomethane | U | U | U | | | | | NL |
| Chloroethane | U | U | U | | | | | NL |
| Trichlorofluoromethane | U | U | U | | | | | NL |
| 1,1-Dichloroethene | U | U | U | | | | | NL |
| Acetone | U | U | U | | | | | NL |
| Iodomethane | U | U | U | | | | | NL |
| Carbon disulfide | U | U | U | | | | | NL |
| Methylene chloride | U | U | U | | | | | NL |
| trans 1,2-Dichloroethene | U | U | U | | | | | 10* |
| Methyl-tert butyl ether | U | U | U | | | | | NL |
| 1,1-Dichloroethane | U | U | U | | | | | NL |
| Vinyl acetate | U | U | U | | | | | NL |
| 2-Butanone | U | U | U | | | | | NL |
| cis-1,2-Dichloroethene | U | U | U | | | | | 10* |
| 2,2-Dichloropropane | U | U | U | | | | | NL |
| Bromochloromethane | U | U | U | | | | | NL |
| Chloroform | U | U | U | | | | | NL |
| 1,1,1-Trichloroethane | U | U | U | | | | | 5 |
| 1,1-Dichloropropene | U | U | U | | | | | NL |
| Carbon tetrachloride | U | U | U | | | | | NL |
| 1,2-Dichloroethane | U | U | U | | | | | NL |
| Benzene | U | U | U | | | | | NL |
| Trichloroethene | U | U | U | | | | | 10 |
| 1,2-Dichloropropane | U | U | U | | | | | NL |
| Bromodichloromethane | U | U | U | | | | | NL |
| cis-1,3-Dichloropropene | U | U | U | | | | | NL |
| 4-Methyl-2-pentanone | U | U | U | | | | | NL |
| Toluene | U | U | U | | | | | NL |
| trans-1,3-Dichloropropene | U | U | U | | | | | NL |
| 1,1,2-Trichloroethane | U | U | U | | | | | NL |
| 1,3-Dichloropropane | U | U | U | | | | | NL |
| Tetrachloroethene | U | U | U | | | | | 4 |
| 2-Hexanone | U | U | U | | | | | NL |
| Dibromochloromethane | U | U | U | | | | | NL |
| 1,2-Dibromoethane | U | U | U | | | | | NL |
| Chlorobenzene | U | U | U | | | | | NL |
| 1,1,1,2-Tetrachloroethane | U | U | U | | | | | NL |
| Ethylbenzene | U | U | U | | | | | NL |
| Xylene (total) | U | U | U | | | | | 5** |
| Styrene | U | U | U | | | | | NL |
| Bromoform | U | U | U | | | | | NL |
| Isopropylbenzene | U | U | U | | | | | NL |
| 1,1,2,2-Tetrachloroethane | U | U | U | | | | | NL |
| Bromobenzene | U | U | U | | | | | NL |
| 1,2,3-Trichloropropane | U | U | U | | | | | NL |
| n-Propylbenzene | U | U | U | | | | | NL |
| 2-Chlorotoluene | U | U | U | | | | | NL |
| 1,3,5-Trimethylbenzene | U | U | U | | | | | NL |
| 4-Chlorotoluene | U | U | U | | | | | NL |
| tert-Butylbenzene | U | U | U | | | | | NL |
| 1,2,4-Trimethylbenzene | U | U | U | | | | | NL |
| sec-Butylbenzene | U | U | U | | | | | NL |
| 4-Isopropyltoluene | U | U | U | | | | | NL |
| 1,3-Dichlorobenzene | U | U | U | | | | | NL |
| 1,4-Dichlorobenzene | U | U | U | | | | | NL |
| n-Butylbenzene | U | U | U | | | | | NL |
| 1,2-Dichlorobenzene | U | U | U | | | | | NL |
| 1,2-Dibromo-3-chloropropane | U | U | U | | | | | NL |
| 1,2,4-Trichlorobenzene | U | U | U | | | | | NL |
| Hexachlorobutadiene | U | U | U | | | | | NL |
| Naphthalene | U | U | U | | | | | NL |
| 1,2,3-Trichlorobenzene | U | U | U | | | | | NL |
| *Total VOCs* | U | U | U | | | | | |

**NOTES:**

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

* - Effluent limitation for 1,2 Dichloroethene (Total)

** - Effluent limit for xylene-o= 5 ug/l, xylene -m&p = 10 ug/l

**ABBREVIATIONS**

ug/L = Micrograms per liter
NL - No limit specified
ST: Standard Value
GV: Guidance Value

**QUALIFIERS:**

U: Compound analyzed for but not detected

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF SYSTEM EFFLUENT ANALYSIS - INORGANIC COMPOUNDS**

| SAMPLE ID | COMB EFF | | | | | | | NYSDEC Site Specific Effluent Limitation |
|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | | | | | | | |
| DATE OF COLLECTION | 3/22/06 | | | | | | | |
| COLLECTED BY | D&B | | | | | | | |
| UNITS | (ug/L) | | | | | | | |
| ***INORGANIC COMPOUNDS*** | | | | | | | | (ug/L) |
| Aluminum | U | | | | | | | 4,000 |
| Antimony | U | | | | | | | NL |
| Arsenic | U | | | | | | | 140 |
| Barium | 9.4 B | | | | | | | NL |
| Beryllium | U | | | | | | | NL |
| Cadmium | U | | | | | | | 30 |
| Calcium | 22,700 | | | | | | | NL |
| Chromium | U | | | | | | | NL |
| Cobalt | 0.74 B | | | | | | | NL |
| Copper | 3.8 B | | | | | | | 38 |
| Iron | 157 | | | | | | | 4,000 |
| Lead | U | | | | | | | NL |
| Magnesium | 3,990 B | | | | | | | NL |
| Manganese | 249 | | | | | | | 2,000 |
| Nickel | 1.3 B | | | | | | | 65 |
| Potassium | 2,770 B | | | | | | | NL |
| Selenium | U | | | | | | | NL |
| Silver | U | | | | | | | 9 |
| Sodium | 22,900 | | | | | | | NL |
| Thallium | 2.1 B | | | | | | | NL |
| Vanadium | U | | | | | | | NL |
| Zinc | 14.1 B | | | | | | | 370 |
| Mercury | U | | | | | | | NL |
| ***GENERAL CHEMISTRY*** | | | | | | | | |
| pH (S.U.) | NS | | | | | | | 6 - 9 |

**ABBREVIATIONS:**
ug/L: Micrograms per liter
NL : No limit specified
NS: Not sampled

**QUALIFIERS:**
B: Concentration above IDL but less than CRDL.
U: Compound analyzed for but not detected.
E: Compound concentration exceeds instrument calibration range, value estimated

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF ANALYSIS OF VAPOR PHASE CARBON VESSEL (VPCV) INFLUENT - VOLATILE ORGANIC COMPOUNDS (VOCs)**

| SAMPLE ID | VPCV-INF | VPCV-INF | VPCV-INF | | | |
|---|---|---|---|---|---|---|
| SAMPLE TYPE | AIR | AIR | AIR | | | |
| DATE OF COLLECTION | 1/24/06 | 2/24/06 | 3/22/06 | | | |
| COLLECTED BY | D&B | D&B | D&B | | | |
| UNITS | ($ug/m^3$) | ($ug/m^3$) | ($ug/m^3$) | | | |
| *VOCs* | | | | | | |
| Dichlorodifluoromethane | 4.9 | 4.7 | U | | | |
| Chloromethane | 2.0 | 1.7 | U | | | |
| Vinyl chloride | 1.0 | U | U | | | |
| Bromomethane | U | U | U | | | |
| Chloroethane | U | U | U | | | |
| Trichlorofluoromethane | 2.5 | 1.8 | U | | | |
| Freon TF | U | U | U | | | |
| 1,1-Dichloroethene | U | U | U | | | |
| Methylene chloride | 9.7 | U | U | | | |
| trans-1,2-Dichloroethene | 1.1 | U | U | | | |
| 1,1-Dichloroethane | 2.0 | U | U | | | |
| cis-1,2-Dichloroethene | 79 | 18 | 520 | | | |
| Chloroform | U | U | U | | | |
| 1,1,1-Trichloroethane | 2.5 | U | 9.3 | | | |
| Carbon tetrachloride | U | U | U | | | |
| 1,2-Dichloroethane | U | U | U | | | |
| Benzene | 1.6 | 0.64 | U | | | |
| Trichloroethene | 51 | 17 | 370 | | | |
| 1,2-Dichloropropane | U | U | U | | | |
| cis-1,3-Dichloropropene | U | U | U | | | |
| Toluene | 12 | 4.5 | 7.9 | | | |
| trans-1,3-Dichloropropene | U | U | U | | | |
| 1,1,2-Trichloroethane | U | U | U | | | |
| Tetrachloroethene | 180 | 88 | 2,000 | | | |
| Chlorobenzene | U | U | U | | | |
| Ethylbenzene | 1.0 | U | U | | | |
| Xylene (total) | 4.6 | U | U | | | |
| Styrene | U | U | U | | | |
| 1,1,2,2-Tetrachloroethane | U | U | U | | | |
| 1,3-Dichlorobenzene | U | U | U | | | |
| 1,4-Dichlorobenzene | U | U | U | | | |
| 1,2-Dichlorobenzene | U | U | U | | | |
| 1,2,4-Trichlorobenzene | U | U | U | | | |
| Hexachlorobutadiene | U | U | U | | | |
| 1,3,5-Trimethylbenzene | U | U | U | | | |
| 1,2,4-Trimethylbenzene | 2.4 | U | U | | | |
| 1,2-Dichlorotetrafluoroethane | U | U | U | | | |
| 1,2-Dibromoethane | U | U | U | | | |
| 1,3-Butadiene | U | U | U | | | |
| Carbon dissulfide | U | U | U | | | |
| Cyclohexane | U | 0.96 | U | | | |
| Dibromochloromethane | U | U | U | | | |
| Bromoform | U | U | U | | | |
| Bromodichloromehtnae | U | U | U | | | |
| 4-Ethyltoluene | 1.6 | U | U | | | |
| 3-Chloropropene | U | U | U | | | |
| 2,2,4-Trimethylpentane | 1.0 | U | U | | | |
| Bromoethene | U | U | U | | | |
| 2-Chlorotoluene | U | U | U | | | |
| n-Hexane | 4.2 | U | U | | | |
| n-Heptane | 6.1 | U | U | | | |
| Total VOCs | 370 | 137 | 2,907 | | | |

**ABBREVIATIONS:**
$ug/m^3$ - Micrograms per cubic meter

**QUALIFIERS:**
U: Compound analyzed for but not detected.
D: Result taken from reanalysis at a secondary dilution

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF ANALYSIS OF SAMPLES COLLECTED BETWEEN VAPOR PHASE CARBON VESSELS (VPCV) - VOLATILE ORGANIC COMPOUNDS (VOCs)**

| SAMPLE ID | VPCV-MID | VPCV-MID | VPCV-MID | | | |
|---|---|---|---|---|---|---|
| SAMPLE TYPE | AIR | AIR | AIR | | | |
| DATE OF COLLECTION | 1/24/06 | 2/24/06 | 3/22/06 | | | |
| COLLECTED BY | D&B | D&B | D&B | | | |
| UNITS | ($ug/m^3$) | ($ug/m^3$) | ($ug/m^3$) | | | |
| *VOCs* | | | | | | |
| Dichlorodifluoromethane | U | 4.6 | 4.2 | | | |
| Chloromethane | U | 1.5 | 1.9 | | | |
| Vinyl chloride | 3.1 | U | U | | | |
| Bromomethane | U | U | U | | | |
| Chloroethane | U | U | U | | | |
| Trichlorofluoromethane | U | 1.8 | 1.9 | | | |
| Freon TF | U | U | U | | | |
| 1,1-Dichloroethene | 2.3 | U | U | | | |
| Methylene chloride | U | 2.0 | U | | | |
| trans-1,2-Dichloroethene | 4.0 | U | U | | | |
| 1,1-Dichloroethane | 7.3 | U | U | | | |
| cis-1,2-Dichloroethene | 340 | 3.6 | 7.1 | | | |
| Chloroform | U | U | U | | | |
| 1,1,1-Trichloroethane | 12 | U | U | | | |
| Carbon tetrachloride | U | U | U | | | |
| 1,2-Dichloroethane | U | U | U | | | |
| Benzene | 1.7 | U | 0.73 | | | |
| Trichloroethene | 280 | 3.9 | 4.8 | | | |
| 1,2-Dichloropropane | U | U | U | | | |
| cis-1,3-Dichloropropene | U | U | U | | | |
| Toluene | 15 | 0.98 | 6.4 | | | |
| trans-1,3-Dichloropropene | U | U | U | | | |
| 1,1,2-Trichloroethane | U | U | U | | | |
| Tetrachloroethene | 350 | 6.8 | 5.7 | | | |
| Chlorobenzene | U | U | U | | | |
| Ethylbenzene | U | U | U | | | |
| Xylene (total) | U | U | U | | | |
| Styrene | U | U | U | | | |
| 1,1,2,2-Tetrachloroethane | U | U | U | | | |
| 1,3-Dichlorobenzene | U | U | U | | | |
| 1,4-Dichlorobenzene | U | U | U | | | |
| 1,2-Dichlorobenzene | U | U | U | | | |
| 1,2,4-Trichlorobenzene | U | U | U | | | |
| Hexachlorobutadiene | U | U | U | | | |
| 1,3,5-Trimethylbenzene | U | U | U | | | |
| 1,2,4-Trimethylbenzene | U | U | U | | | |
| 1,2-Dichlorotetrafluoroethane | U | U | U | | | |
| 1,2-Dibromoethane | U | U | U | | | |
| 1,3-Butadiene | U | U | U | | | |
| Carbon dissulfide | U | U | U | | | |
| Cyclohexane | 10 | U | U | | | |
| Dibromochloromethane | U | U | U | | | |
| Bromoform | U | U | U | | | |
| Bromodichloromehtnae | U | U | U | | | |
| 4-Ethyltoluene | U | U | U | | | |
| 3-Chloropropene | U | U | U | | | |
| 2,2,4-Trimethylpentane | 9.8 | U | U | | | |
| Bromoethene | U | U | U | | | |
| 2-Chlorotoluene | U | U | U | | | |
| n-Hexane | 10 | U | U | | | |
| n-Heptane | 37 | U | 1.7 | | | |
| Total VOCs | 1,082.2 | 25 | 34 | | | |

**ABBREVIATIONS:**
$ug/m^3$ - Micrograms per cubic meter

**QUALIFIERS:**
U: Compound analyzed for but not detected.

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF ANALYSIS OF VAPOR PHASE CARBON VESSEL (VPCV) EFFLUENT - VOLATILE ORGANIC COMPOUNDS (VOCs)**

| SAMPLE ID | VPCV-EFF | VPCV-EFF | VPCV-EFF | | | |
|---|---|---|---|---|---|---|
| SAMPLE TYPE | AIR | AIR | AIR | | | |
| DATE OF COLLECTION | 1/24/06 | 2/24/06 | 3/22/06 | | | |
| COLLECTED BY | D&B | D&B | D&B | | | |
| UNITS | ($ug/m^3$) | ($ug/m^3$) | ($ug/m^3$) | | | |
| *VOCs* | | | | | | |
| Dichlorodifluoromethane | 4.8 | U | 3.8 | | | |
| Chloromethane | 2.0 | U | 1.7 | | | |
| Vinyl chloride | 1.1 | U | U | | | |
| Bromomethane | U | U | U | | | |
| Chloroethane | U | U | U | | | |
| Trichlorofluoromethane | 2.4 | U | 1.7 | | | |
| Freon TF | U | U | U | | | |
| 1,1-Dichloroethene | 1.1 | U | U | | | |
| Methylene chloride | 3.1 | U | U | | | |
| trans-1,2-Dichloroethene | 1.5 | 2.2 | U | | | |
| 1,1-Dichloroethane | 2.5 | 3.1 | U | | | |
| cis-1,2-Dichloroethene | 140 | 280 | U | | | |
| Chloroform | U | U | U | | | |
| 1,1,1-Trichloroethane | 4.9 | 10 | U | | | |
| Carbon tetrachloride | U | U | U | | | |
| 1,2-Dichloroethane | U | U | U | | | |
| Benzene | 1.2 | U | 0.73 | | | |
| Trichloroethene | 59 | 120 | U | | | |
| 1,2-Dichloropropane | U | U | U | | | |
| cis-1,3-Dichloropropene | U | U | U | | | |
| Toluene | 5.3 | 2.5 | 2.7 | | | |
| trans-1,3-Dichloropropene | U | U | U | | | |
| 1,1,2-Trichloroethane | U | U | U | | | |
| Tetrachloroethene | 33 | 55 | 3.4 | | | |
| Chlorobenzene | U | U | U | | | |
| Ethylbenzene | U | U | U | | | |
| Xylene (total) | U | U | U | | | |
| Styrene | U | U | U | | | |
| 1,1,2,2-Tetrachloroethane | U | U | U | | | |
| 1,3-Dichlorobenzene | U | U | U | | | |
| 1,4-Dichlorobenzene | U | U | U | | | |
| 1,2-Dichlorobenzene | U | U | U | | | |
| 1,2,4-Trichlorobenzene | U | U | U | | | |
| Hexachlorobutadiene | U | U | U | | | |
| 1,3,5-Trimethylbenzene | U | U | U | | | |
| 1,2,4-Trimethylbenzene | U | U | U | | | |
| 1,2-Dichlorotetrafluoroethane | U | U | U | | | |
| 1,2-Dibromoethane | U | U | U | | | |
| 1,3-Butadiene | U | U | U | | | |
| Carbon dissulfide | U | U | U | | | |
| Cyclohexane | 2.4 | U | U | | | |
| Dibromochloromethane | U | U | U | | | |
| Bromoform | U | U | U | | | |
| Bromodichloromehtnae | U | U | U | | | |
| 4-Ethyltoluene | U | U | U | | | |
| 3-Chloropropene | U | U | U | | | |
| 2,2,4-Trimethylpentane | 2.2 | U | U | | | |
| Bromoethene | U | U | U | | | |
| 2-Chlorotoluene | U | U | U | | | |
| n-Hexane | 4.9 | U | U | | | |
| n-Heptane | 5.3 | U | U | | | |
| Total VOCs | 277 | 473 | 14 | | | |

**ABBREVIATIONS:**
$ug/m^3$ - Micrograms per cubic meter

**QUALIFIERS:**
U: Compound analyzed for but not detected.
D: Result taken from reanalysis at a secondary dilution

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**SUMMARY OF VAPOR EMISSION RATES**

**Vapor Phase Carbon Vessel Effluent (VPCV-EFF) Sample Collection Date: 1/24/06**

| Compound Detected [1] | Concentration ($ug/m^3$) | Flow Rate ($ft^3/min$) | Emission Rate (lbs/hr) | NYSDEC Required Effluent Limits (lbs/hr) |
|---|---|---|---|---|
| Dichlorodifluoromethane | 4.8 | 1,169 | 0.000021 | NL |
| Chloromethane | 2.0 | 1,169 | 0.000009 | NL |
| Vinyl Chloride | 1.1 | 1,169 | 0.000005 | 0.014 |
| Trichlorofluoromethane | 2.4 | 1,169 | 0.000011 | NL |
| 1,1-Dichloroethene | 1.1 | 1,169 | 0.000005 | NL |
| Methylene chloride | 3.1 | 1,169 | 0.000014 | NL |
| trans-1,2-Dichloroethene | 1.5 | 1,169 | 0.000007 | NL |
| 1,1-Dichloroethane | 2.5 | 1,169 | 0.000011 | NL |
| cis-1,2-Dichloroethene | 140 | 1,169 | 0.000614 | 0.003 |
| 1,1,1-Trichloroethane | 4.9 | 1,169 | 0.000021 | 0.001 |
| Benzene | 1.2 | 1,169 | 0.000005 | NL |
| Trichloroethene | 59 | 1,169 | 0.000259 | 0.006 |
| Toluene | 5.3 | 1,169 | 0.000023 | NL |
| Tetrachloroethene | 33 | 1,169 | 0.000145 | 0.007 |
| Cyclohexane | 2.4 | 1,169 | 0.000011 | NL |
| 2,2,4-Trimethylpentane | 2.2 | 1,169 | 0.000010 | NL |
| n-Hexane | 4.9 | 1,169 | 0.000021 | NL |
| n-Heptane | 5.3 | 1,169 | 0.000023 | NL |
| Total VOCs | 277 | 1,169 | 0.001214 | 0.5 |

**Vapor Phase Carbon Vessel Effluent (VPCV-EFF) Sample Collection Date: 2/24/06**

| Compound Detected [1] | Concentration ($ug/m^3$) | Flow Rate ($ft^3/min$) | Emission Rate (lbs/hr) | NYSDEC Required Effluent Limits (lbs/hr) |
|---|---|---|---|---|
| trans-1,2-Dichloroethene | 2.2 | 1,206 | 0.000010 | NL |
| 1,1-Dichloroethane | 3.1 | 1,206 | 0.000014 | NL |
| cis-1,2-Dichloroethene | 280 | 1,206 | 0.001266 | 0.003 |
| 1,1,1-Trichloroethane | 10 | 1,206 | 0.000045 | 0.001 |
| Trichloroethene | 120 | 1,206 | 0.000543 | 0.006 |
| Toluene | 2.5 | 1,206 | 0.000011 | NL |
| Tetrachloroethene | 55 | 1,206 | 0.000249 | 0.007 |
| Total VOCs | 473 | 1,206 | 0.002139 | 0.5 |

**Vapor Phase Carbon Vessel Effluent (VPCV-EFF) Sample Collection Date: 3/22/2006**

| Compound Detected [1] | Concentration ($ug/m^3$) | Flow Rate ($ft^3/min$) | Emission Rate (lbs/hr) | NYSDEC Required Effluent Limits (lbs/hr) |
|---|---|---|---|---|
| Dichlorodifluoromethane | 3.8 | 1,204 | 0.000017 | NL |
| Chloromethane | 1.7 | 1,204 | 0.000008 | NL |
| Trichlorofluoromethane | 1.7 | 1,204 | 0.000008 | NL |
| Benzene | 0.73 | 1,204 | 0.000003 | NL |
| Toluene | 2.7 | 1,204 | 0.000012 | NL |
| Tetrachloroethene | 3.4 | 1,204 | 0.000015 | 0.007 |
| Total VOCs | 14.03 | 1,204 | 0.000063 | 0.5 |

**NOTES:**

1. Only detected compounds are listed. All other VOCs were undetected during this sampling event.

Concentration exceeds NYSDEC permitted effluent limits

**ABBREVIATIONS:**

NL - No limit specified in permit application
$ug/m^3$ - Micrograms per cubic meter
$ft^3/min$ - Cubic feet per minute
lbs/hr - Pounds per hour

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF ANALYSIS OF GROUNDWATER SAMPLING - VOLATILE ORGANIC COMPOUNDS (VOCS)**

| SAMPLE ID | MW-101 | MW-102 | MW-103 | MW-104 | MW-105 | MW-106 | MW-107 | MW-108 | NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L) |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | WATER | WATER | WATER | WATER | WATER | WATER | WATER | |
| DATE OF COLLECTION | 3/13/06 | 3/13/06 | 3/13/06 | 3/13/06 | 3/13/06 | 3/13/06 | 3/13/06 | 3/14/06 | |
| COLLECTED BY | D&B | D&B | D&B | D&B | D&B | D&B | D&B | D&B | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | |
| *VOCs* | | | | | | | | | |
| Dichlorodifluoromethane | U | U | U | U | U | U | U | U | 5 GV |
| Chloromethane | U | U | U | U | U | U | U | U | – |
| Vinyl chloride | U | U | U | U | U | 12 | U | U | 2 ST |
| Bromomethane | U | U | U | U | U | U | U | U | 5 ST |
| Chloroethane | U | U | U | U | U | U | U | U | 5 ST |
| Trichlorofluoromethane | U | U | U | U | U | U | U | U | 5 ST |
| 1,1-Dichloroethene | U | U | U | U | U | U | U | U | 5 ST |
| Acetone | U | U | U | U | U | U | U | U | 50 GV |
| Iodomethane | U | U | U | U | U | U | U | U | – |
| Carbon disulfide | U | U | U | U | U | U | U | U | 60 GV |
| Methylene chloride | U | U | U | U | U | U | U | U | 5 ST |
| trans 1,2-Dichloroethene | U | U | U | U | U | U | U | U | 5 ST |
| Methyl-tert butyl ether | U | U | U | U | U | U | U | U | 10 GV |
| 1,1-Dichloroethane | U | U | U | U | U | U | U | U | 5 ST |
| Vinyl acetate | U | U | U | U | U | U | U | U | – |
| 2-Butanone | U | U | U | U | U | U | U | U | 50 GV |
| cis-1,2-Dichloroethene | U | U | U | U | U | 240 D | U | U | 5 ST |
| 2,2-Dichloropropane | U | U | U | U | U | U | U | U | 5 ST |
| Bromochloromethane | U | U | U | U | U | U | U | U | 5 ST |
| Chloroform | U | U | U | U | U | U | U | U | 7 ST |
| 1,1,1-Trichloroethane | U | U | U | U | U | U | U | U | 5 ST |
| 1,1-Dichloropropene | U | U | U | U | U | U | U | U | 5 ST |
| Carbon tetrachloride | U | U | U | U | U | U | U | U | 5 ST |
| 1,2-Dichloroethane | U | U | U | U | U | U | U | U | 0.6 ST |
| Benzene | U | U | U | U | U | U | U | U | 1 ST |
| Trichloroethene | U | U | 2 J | 2 J | U | 21 | U | U | 5 ST |
| 1,2-Dichloropropane | U | U | U | U | U | U | U | U | 1 ST |
| Bromodichloromethane | U | U | U | U | U | U | U | U | 5 ST |
| cis-1,3-Dichloropropene | U | U | U | U | U | U | U | U | 0.4 ST |
| 4-Methyl-2-pentanone | U | U | U | U | U | U | U | U | – |
| Toluene | U | U | U | U | U | U | U | U | 5 ST |
| trans-1,3-Dichloropropene | U | U | U | U | U | U | U | U | 0.4 ST |
| 1,1,2-Trichloroethane | U | U | U | U | U | U | U | U | 1 ST |
| 1,3-Dichloropropane | U | U | U | U | U | U | U | U | 5 ST |
| Tetrachloroethene | U | U | 10 | 64 | 4 J | 86 | 3 J | 2 J | 5 ST |
| 2-Hexanone | U | U | U | U | U | U | U | U | 50 GV |
| Dibromochloromethane | U | U | U | U | U | U | U | U | 50 GV |
| 1,2-Dibromoethane | U | U | U | U | U | U | U | U | 5 ST |
| Chlorobenzene | U | U | U | U | U | U | U | U | 5 ST |
| 1,1,1,2-Tetrachloroethane | U | U | U | U | U | U | U | U | 5 ST |
| Ethylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| Xylene (total) | U | U | U | U | U | 1 J | U | U | 5 ST |
| Styrene | U | U | U | U | U | U | U | U | 5 ST |
| Bromoform | U | U | U | U | U | U | U | U | 50 GV |
| Isopropylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| 1,1,2,2-Tetrachloroethane | U | U | U | U | U | U | U | U | 5 ST |
| Bromobenzene | U | U | U | U | U | U | U | U | 5 ST |
| 1,2,3-Trichloropropane | U | U | U | U | U | U | U | U | 0.04 ST |
| n-Propylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| 2-Chlorotoluene | U | U | U | U | U | U | U | U | 5 ST |
| 1,3,5-Trimethylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| 4-Chlorotoluene | U | U | U | U | U | U | U | U | 5 ST |
| tert-Butylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| 1,2,4-Trimethylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| sec-Butylbenzene | U | U | U | U | U | U | 2 J | U | 5 ST |
| 4-Isopropyltoluene | U | U | U | U | U | U | U | U | 5 ST |
| 1,3-Dichlorobenzene | U | U | U | U | U | U | U | U | 3 ST |
| 1,4-Dichlorobenzene | U | U | U | U | U | U | U | U | 3 ST |
| n-Butylbenzene | U | U | U | U | U | U | U | U | 5 ST |
| 1,2-Dichlorobenzene | U | U | U | U | U | 2 J | U | U | 3 ST |
| 1,2-Dibromo-3-chloropropane | U | U | U | U | U | U | U | U | 0.04 ST |
| 1,2,4-Trichlorobenzene | U | U | U | U | U | U | U | U | 5 ST |
| Hexachlorobutadiene | U | U | U | U | U | U | U | U | 0.5 ST |
| Naphthelene | U | U | U | U | U | U | U | U | 10 GV |
| 1,2,3-Trichlorobenzene | U | U | U | U | U | U | U | U | 5 ST |
| *Total VOCs* | U | U | 12 | 66 | 4 | 362 | 5 | 2 | |

**NOTES:**

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

**ABBREVIATIONS**

ug/L = Micrograms per liter
–: Not established
ST: Standard Value
GV: Guidance Value

**QUALIFIERS:**

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
D: Result taken from reanalysis at a secondary dilution

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**RESULTS OF ANALYSIS OF GROUNDWATER SAMPLING - VOLATILE ORGANIC COMPOUNDS (VOCS)**

| SAMPLE ID | MW-109 | MW-110[1] | MW-111 | | | | | | NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES (ug/L) |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE TYPE | WATER | WATER | WATER | | | | | | |
| DATE OF COLLECTION | 3/14/06 | – | 3/14/06 | | | | | | |
| COLLECTED BY | D&B | D&B | D&B | | | | | | |
| UNITS | (ug/L) | (ug/L) | (ug/L) | | | | | | |
| *VOCs* | | | | | | | | | |
| Dichlorodifluoromethane | U | | U | | | | | | 5 GV |
| Chloromethane | U | | U | | | | | | – |
| Vinyl chloride | U | | U | | | | | | 2 ST |
| Bromomethane | U | | U | | | | | | 5 ST |
| Chloroethane | U | | U | | | | | | 5 ST |
| Trichlorofluoromethane | U | | U | | | | | | 5 ST |
| 1,1-Dichloroethane | U | | U | | | | | | 5 ST |
| Acetone | U | | U | | | | | | 50 GV |
| Iodomethane | U | | U | | | | | | – |
| Carbon disulfide | U | | U | | | | | | 60 GV |
| Methylene chloride | U | | U | | | | | | 5 ST |
| trans 1,2-Dichloroethene | U | | U | | | | | | 5 ST |
| Methyl-tert butyl ether | 3 J | | U | | | | | | 10 GV |
| 1,1-Dichloroethane | 2 J | | U | | | | | | 5 ST |
| Vinyl acetate | U | | U | | | | | | – |
| 2-Butanone | U | | U | | | | | | 50 GV |
| cis-1,2-Dichloroethene | 4 J | | U | | | | | | 5 ST |
| 2,2-Dichloropropane | U | | U | | | | | | 5 ST |
| Bromochloromethane | U | | U | | | | | | 5 ST |
| Chloroform | U | | U | | | | | | 7 ST |
| 1,1,1-Trichloroethane | U | | U | | | | | | 5 ST |
| 1,1-Dichloropropene | U | | U | | | | | | 5 ST |
| Carbon tatrachloride | U | | U | | | | | | 5 ST |
| 1,2-Dichloroethane | U | | U | | | | | | 0.6 ST |
| Benzene | U | | U | | | | | | 1 ST |
| Trichloroethene | 2 J | | U | | | | | | 5 ST |
| 1,2-Dichloropropane | U | | U | | | | | | 1 ST |
| Bromodichloromethane | U | | U | | | | | | 5 ST |
| cis-1,3-Dichloropropene | U | | U | | | | | | 0.4 ST |
| 4-Methyl-2-pentanone | U | | U | | | | | | – |
| Toluene | U | | U | | | | | | 5 ST |
| trans-1,3-Dichloropropene | U | | U | | | | | | 0.4 ST |
| 1,1,2-Trichloroethane | U | | U | | | | | | 1 ST |
| 1,3-Dichloropropane | U | | U | | | | | | 5 ST |
| Tetrachloroethene | 6 | | U | | | | | | 5 ST |
| 2-Hexanone | U | | U | | | | | | 50 GV |
| Dibromochloromethane | U | | U | | | | | | 50 GV |
| 1,2-Dibromoethane | U | | U | | | | | | 5 ST |
| Chlorobenzene | U | | U | | | | | | 5 ST |
| 1,1,1,2-Tetrachloroethane | U | | U | | | | | | 5 ST |
| Ethylbenzene | U | | U | | | | | | 5 ST |
| Xylene (total) | U | | U | | | | | | 5 ST |
| Styrene | U | | U | | | | | | 5 ST |
| Bromoform | U | | U | | | | | | 50 GV |
| Isopropylbenzene | U | | U | | | | | | 5 ST |
| 1,1,2,2-Tetrachloroethane | U | | U | | | | | | 5 ST |
| Bromobenzene | U | | U | | | | | | 5 ST |
| 1,2,3-Trichloropropane | U | | U | | | | | | 0.04 ST |
| n-Propylbenzene | U | | U | | | | | | 5 ST |
| 2-Chlorotoluene | U | | U | | | | | | 5 ST |
| 1,3,5-Trimethylbenzene | U | | U | | | | | | 5 ST |
| 4-Chlorotoluene | U | | U | | | | | | 5 ST |
| tert-Butylbenzene | U | | U | | | | | | 5 ST |
| 1,2,4-Trimethylbenzene | U | | U | | | | | | 5 ST |
| sec-Butylbenzene | U | | U | | | | | | 5 ST |
| 4-Isopropyltoluene | U | | U | | | | | | 5 ST |
| 1,3-Dichlorobenzene | U | | U | | | | | | 3 ST |
| 1,4-Dichlorobenzene | U | | U | | | | | | 3 ST |
| n-Butylbenzene | U | | U | | | | | | 5 ST |
| 1,2-Dichlorobenzene | U | | U | | | | | | 3 ST |
| 1,2-Dibromo-3-chloropropane | U | | U | | | | | | 0.04 ST |
| 1,2,4-Trichlorobenzene | U | | U | | | | | | 5 ST |
| Hexachlorobutadiene | U | | U | | | | | | 0.5 ST |
| Naphthalene | U | | U | | | | | | 10 GV |
| 1,2,3-Trichlorobenzene | U | | U | | | | | | 5 ST |
| ***Total VOCs*** | 17 | | U | | | | | | |

**NOTES:**

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

(1) - Monitoring well MW-110 was not sampled since it could not be located and has reportedly been paved over by tha local municipality.

**ABBREVIATIONS**

ug/L = Micrograms per liter
–: Not established
ST: Standard Value
GV: Guidance Value

**QUALIFIERS:**

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
D: Result taken from reanalysis at a secondary dilution

# ATTACHMENT E

# PERFORMANCE SUMMARY

**ACTIVE INDUSTRIAL UNIFORM SITE**
**NYSDEC SITE No. 1-52-125**
**EXTRACTION AND TREATMENT SYSTEM PERFORMANCE RESULTS - AQUEOUS**

| SAMPLE COLLECTION DATE | SYSTEM INFLUENT AVERAGE EXTRACTION RATE (gpm) | SYSTEM INFLUENT TOTAL VOC CONCENTRATION (ug/L) | SYSTEM EFFLUENT TOTAL VOC CONCENTRATION (ug/L) | TOTAL VOC REMOVAL EFFICIENCY (%) | ESTIMATED AVERAGE TOTAL VOC REMOVAL RATE (lb/hr) | ESTIMATED SYSTEM RUNTIME (hr) | CUMULATIVE TOTAL VOC REMOVAL (lbs) |
|---|---|---|---|---|---|---|---|
| -- | -- | -- | -- | -- | -- | -- | 784.00 [1] |
| 2/23/05 | 84.60 (RW-1) 0.00 (RW-2) | 484 | < 5.0 | 98.97% | 2.05E-02 | 172 | 787.53 |
| 3/21/05 | 83.90 (RW-1) 0.00 (RW-2) | 303 | < 5.0 | 98.35% | 1.27E-02 | 838 | 798.19 [2] |
| 4/19/05 | 79.80 (RW-1) 0.00 (RW-2) | 562 | 3 J | 99.47% | 2.24E-02 | 444 | 808.15 |
| 5/16/05 | 77.67 (RW-1) 0.00 (RW-2) | 636 | < 5.0 | 99.21% | 2.47E-02 | 644 | 824.08 |
| 6/20/05 | 75.85 (RW-1) 0.00 (RW-2) | 693 | < 5.0 | 99.28% | 2.63E-02 | 1083 | 852.56 [2] |
| 7/25/05 [3] | 69.61 (RW-1) 82.32 (RW-2) | 378 | < 5.0 | 98.68% | 2.87E-02 | 576 (RW-1) 464 (RW-2) | 867.36 |
| 8/30/05 [3] | 70.25 (RW-1) 83.00 (RW-2) | 277 | < 5.0 | 98.19% | 2.12E-02 | 599 (RW-1) 599 (RW-2) | 880.08 |
| 9/30/05 [3] | 68.70 (RW-1) 82.50 (RW-2) | 535 | < 5.0 | 99.07% | 4.05E-02 | 755 (RW-1) 460 (RW-2) | 904.13 [2] |
| 10/24/05 | 67.10 (RW-1) 82.70 (RW-2) | 397 | < 5.0 | 98.74% | 2.97E-02 | 559 (RW-1) 559 (RW-2) | 920.76 |
| 11/21/05 | 63.83 (RW-1) 81.58 (RW-2) | 464 | < 5.0 | 98.92% | 3.37E-02 | 669 (RW-1) 669 (RW-2) | 943.35 |
| 12/19/05 | 63.82 (RW-1) 80.60 (RW-2) | 244 | < 5.0 | 97.95% | 1.76E-02 | 969 (RW-1) 969 (RW-2) | 960.44 [2] |
| 1/24/06 | 63.00 (RW-1) 78.95 (RW-2) | 259 | < 5.0 | 98.08% | 1.83E-02 | 566 (RW-1) 566 (RW-2) | 970.79 |
| 2/24/06 | 87.00 (RW-1) 79.00 (RW-2) | 390 | < 5.0 | 98.72% | 2.85E-02 | 670 (RW-1) 442 (RW-2) | 989.97 |
| 3/22/06 | 86.69 (RW-1) 0.00 (RW-2) | 540 | < 5.0 | 99.07% | 1.80E-02 | 649 (RW-1) 0 (RW-2) | 1005.21 [2] |

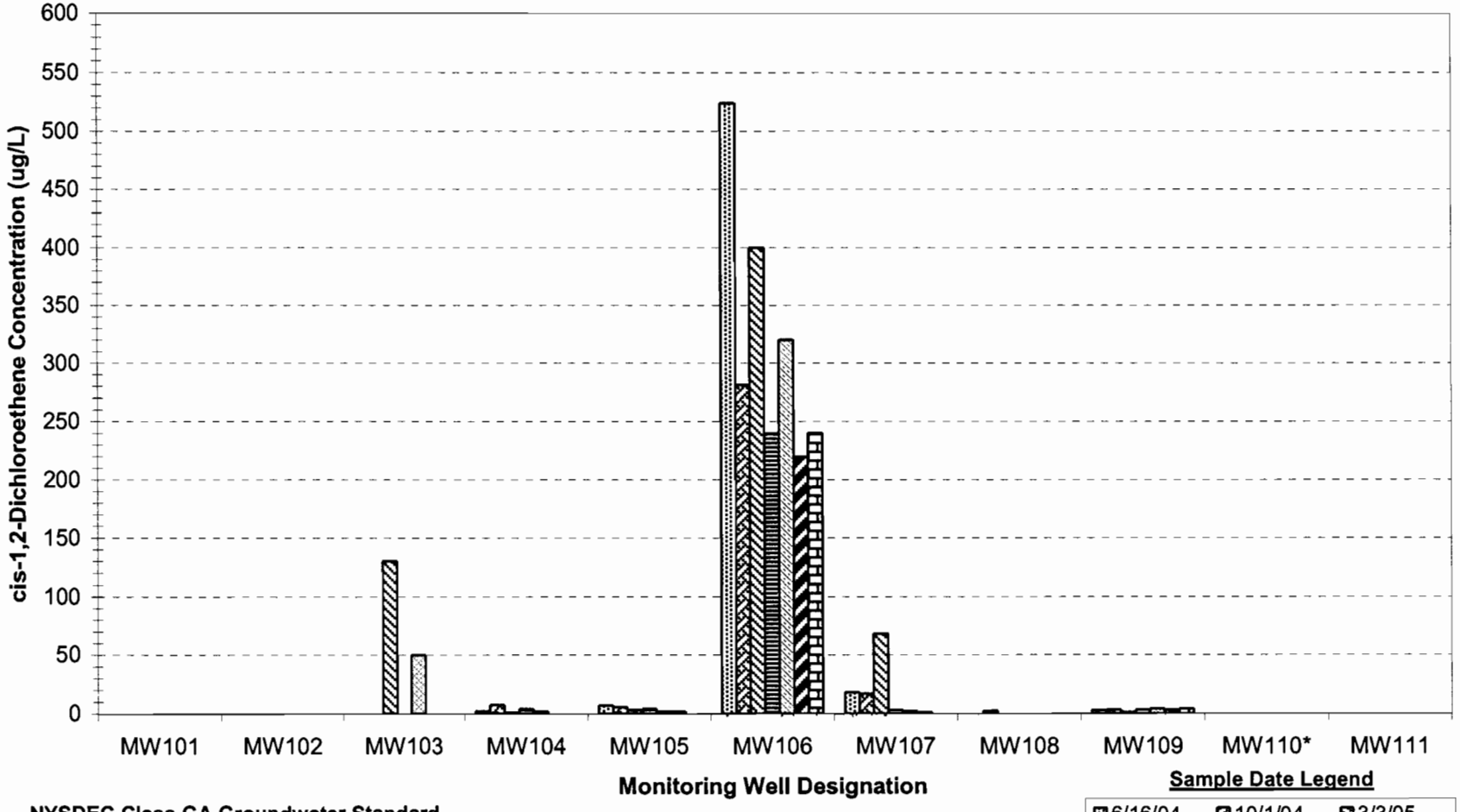
**NOTES:**
1. Total mass of VOC recovered through December 31. 2004 based on information contained in the Fourth Quarter 2004 Operation and Maintenance Report prepared by Blue Water Environmental Inc.
2. Estimated through the end of the reporting period.
3. Extraction well RW-2 restarted on 7/5/05 @16:20. Mass removal rates reflect operation of both extraction wells RW-1 and RW-2.
4. Performance results for the reporting period are shaded.

**ABBREVIATIONS**
gpm: gallons per minute
ug/L: micrograms per liter
lb/hr: pounds per hour

# ATTACHMENT F

# MONITORING WELL TREND BAR GRAPHS

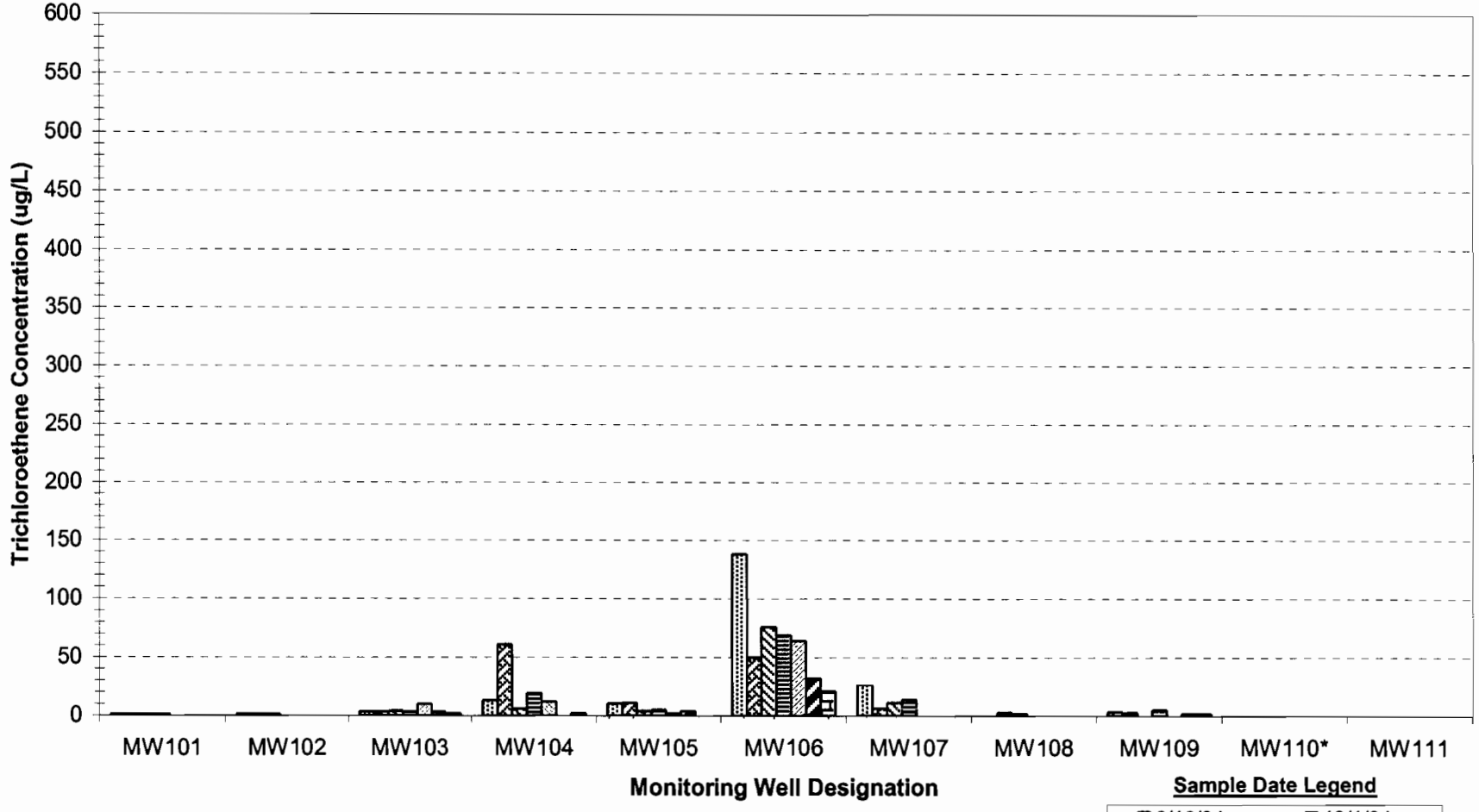
**Active Industrial Uniform Site**
**NYSDEC Site No. 1-52-125**
**Summary of Groundwater Sampling Results - cis-1,2-Dichloroethene**




**NYSDEC Class GA Groundwater Standard**
cis-1,2-dichloroethene - 5 ug/l

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

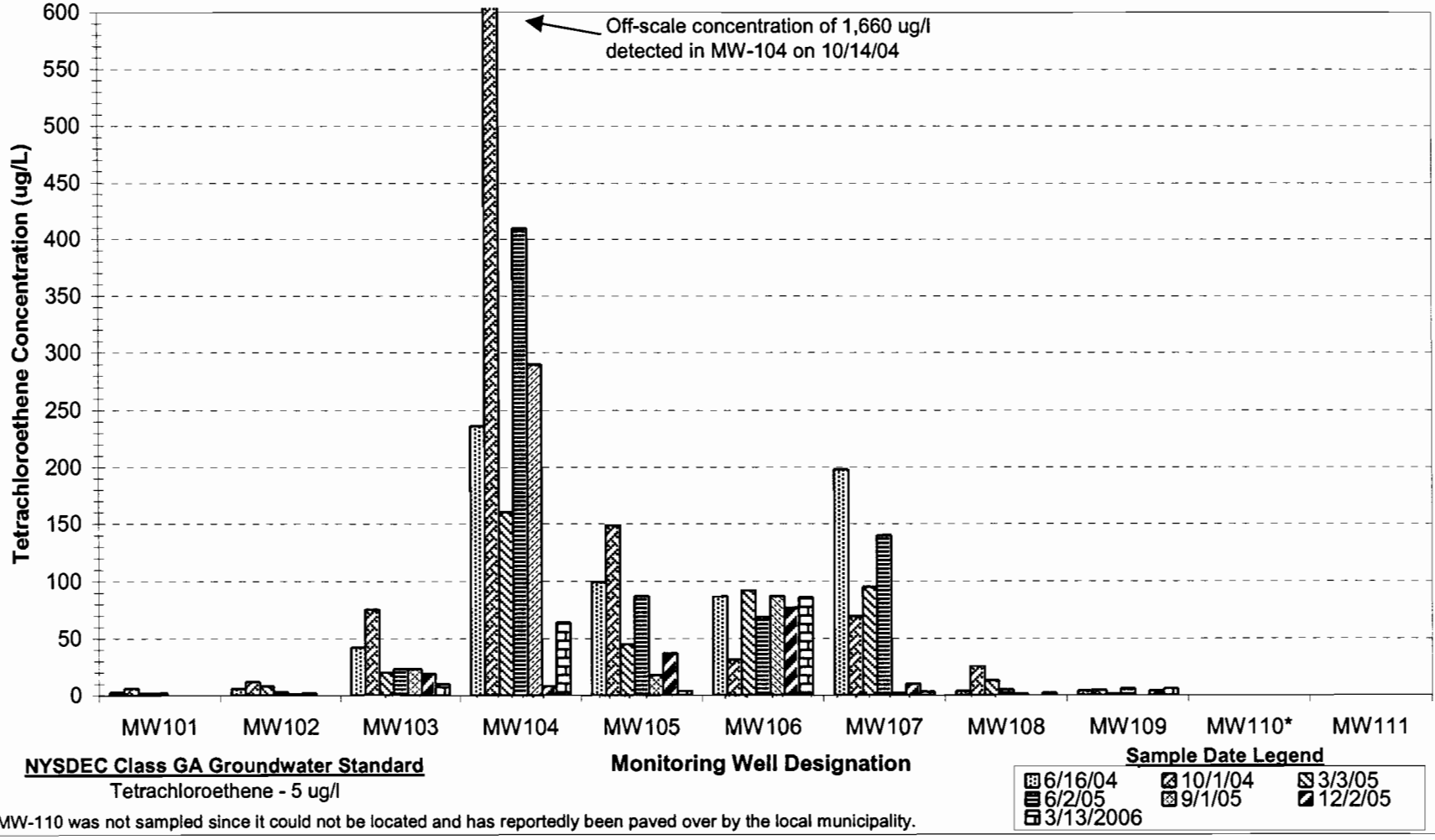
**Active Industrial Uniform Site**
**NYSDEC Site No. 1-52-125**
**Summary of Groundwater Sampling Results - Trichloroethene**




**NYSDEC Class GA Groundwater Standard**
Trichloroethene - 5 ug/l

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

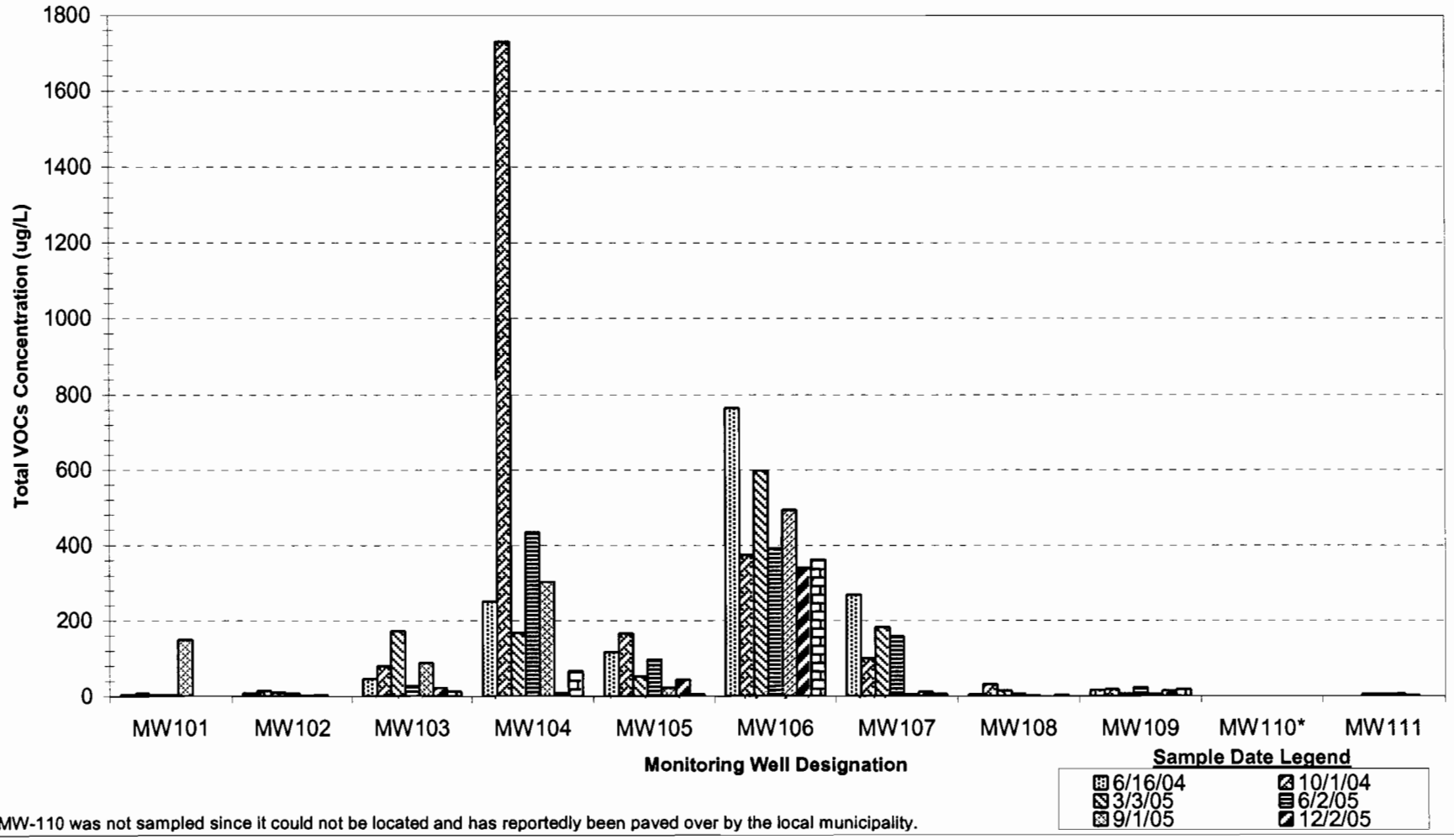
**Active Industrial Uniform Site**
**NYSDEC Site No. 1-52-125**
**Summary of Groundwater Sampling Results - Tetrachloroethene**




**NYSDEC Class GA Groundwater Standard**
Tetrachloroethene - 5 ug/l

* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.

**Active Industrial Uniform Site**
**NYSDEC Site No. 1-52-125**
**Summary of Groundwater Sampling Results - Total VOCs**




* MW-110 was not sampled since it could not be located and has reportedly been paved over by the local municipality.