

September 12, 2006

Mr. Charles Burke
National Fuel Gas Distribution Corporation
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365 Mineral Springs Road
Buffalo, NY 14210

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NYSDEC REG 9
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**RE: Groundwater and Surface Water Monitoring Results
August 2006
Mineral Springs Road MGP Site**

Dear Charlie:

This report provides the results of a groundwater and surface water sampling event completed by The RETEC Group, Inc. (RETEC) on August 1st and 2nd, 2006, at the Mineral Springs Road former Manufactured Gas Plant (MGP) site in West Seneca (and Buffalo), New York.

The work at the Mineral Springs site is being conducted under a NYSDEC Voluntary Cleanup Agreement B9-0538-98-08 as described in the Remedial Design, dated February 10, 1999, and the Final Engineering Report, Volume II – Operations and Maintenance Plan, dated May 2002.

Summary

A total of 13 groundwater samples and 2 surface water samples were collected and analyzed. A total of 15 depth-to-water measurements were taken. Sampling locations are shown in the attached figure. Analytical results are summarized in the attached table.

Concentrations of BTEX and PAH compounds were below NYSDEC standard or guidance values in the two surface water samples, and in two of the seven groundwater samples analyzed.

Total cyanide concentrations exceeded the NYSDEC groundwater standard in seven of the nine groundwater samples analyzed. Free cyanide was not detected in groundwater. Total cyanide and free cyanide were detected in one of the surface water samples at concentrations below the NYSDEC standards.

Groundwater Elevations

Depth-to-water measurements were taken at 14 monitoring wells and at surface water sampling point SW-01. The measurements were used to construct the groundwater contours shown in the attached figure.

At the time of the sampling, groundwater flowed onto the site from the southeast, then flowed to the northwest towards Calais Street and Mineral Springs Road. Onsite groundwater also appears to discharge to the Class D Stream, which in turn discharges to the Calais Street storm sewer and the municipal wastewater treatment system. These results are consistent with previous sampling events conducted at the site.

Sampling and Analysis

A total of 13 monitoring wells were purged and sampled by a RETEC geologist. Two surface water samples were also collected. Sampling locations are shown on the attached figure.

Severn Trent Laboratories (STL) of Pittsburgh, PA, performed the analyses of the groundwater and surface water samples for hydrocarbon contaminants of interest. STL is currently certified to perform the requested analyses under the NYSDOH Environmental Laboratory Approval Program. The samples were analyzed for MGP indicators using the following methods:

| | |
|------|--------------------|
| BTEX | Method SW846 8260B |
| PAHs | Method SW846 8270C |

Samples were also sent to Clarkson University of Potsdam, NY (Clarkson) for cyanide analysis using the following methods:

| | |
|-----------------|----------------------|
| Cyanide (free) | Method ASTM D4282-89 |
| Cyanide (total) | Method SW864 9012A |

All sampling and analyses were conducted according to RETEC's Standard Operating Procedures as provided in the project Quality Assurance Plan of June 11, 1999. Additionally, the cyanide samples were protected from light during collection to prevent the dissociation of metal-cyanide compounds, which would artificially elevate free cyanide results. The cyanide samples were also treated with lead carbonate and filtered to remove potential sulfide interferences.

Analytical Results and Conclusions

The results of the laboratory analyses are summarized in the attached table. The laboratory reports and the chain-of-custody forms are attached as well. The locations, sampling objectives, and a discussion of the analytical results for each of the specific areas of interest at the site are provided in the following sections.

Upgradient Site Perimeter

Well MW-17 is located in the southeast corner of the site and monitors upgradient groundwater quality. The results of the analyses indicate that no BTEX or PAH compounds were detected in concentrations greater than the method detection limits. Total cyanide was detected at a concentration of 183 µg/L. Free cyanide was not detected.

Downgradient Site Perimeter

Wells MW-20 and MW-21 are located downgradient of the western boundary of the site on Calais Street. Wells MW-13, MW-14, MW-22 and MW-23 are located just inside the northern property boundary near Mineral Springs Road. These six "sentinel" wells monitor groundwater quality downgradient of the site. The groundwater samples from these six wells were analyzed for total and free cyanide.

Five of the wells were found to contain total cyanide in concentrations above the NYSDEC groundwater standard of 200 µg/L. Concentrations ranged from 172 µg/L at MW-20 to 540 µg/L at MW-22. These concentrations are generally consistent with previous results. Free cyanide was not detected in any of the sentinel wells above method detection limits.

MW-13 and MW-23 were also analyzed for BTEX and PAHs. No exceedances were detected except a slight exceedance (1.9 µg/L) of benzene at MW-13.

Onsite Purifier Residuals Impacted Areas

Wells MW-12 and MW-16 monitor groundwater quality at locations of known subsurface deposits of purifier box residuals. These deposits were remediated by capping. Samples from these two wells were analyzed for total and free cyanide.

Total cyanide concentrations were 415 µg/L at MW-12 and 368 µg/L at MW-16. Free cyanide was not detected.

Onsite Hydrocarbon NAPL Impacted Areas

Wells MW-7, MW-10, MW-11A, and MW-19 monitor onsite groundwater quality downgradient of subsurface soil impacted with hydrocarbon NAPL. Samples from these wells were analyzed for BTEX and PAHs.

BTEX and PAHs were not detected at MW-10. Consistent with previous results, BTEX and PAH compounds were detected above the groundwater standards in MW-7, MW-11A, and MW-19.

Surface Water

Two surface water samples were collected during this sampling event. Sample SW-01 was collected at the Calais Street storm sewer inlet. Sample SW-02 was collected from the Eastern Drainage Ditch near the Class D Stream. These surface sampling locations monitor the effectiveness of the Eastern Drainage Ditch Cap and also monitor the concentrations of COI in surface water at its most downgradient location at the Mineral Springs site.

BTEX and PAHs were not detected in either surface water sample, except a low concentration (J value) of ethylbenzene at SW-01. Total and free cyanide were not detected above the NYSDEC standards in either surface water sample.

QA/QC Samples

Quality control samples were collected during the sampling event to meet the requirements of the project Quality Assurance Plan.

An equipment blank (EB) was prepared using organic free water supplied by the laboratory that was run over and through a sample collection bailer and through peristaltic pump tubing. No cyanide, BTEX, or PAH compounds were detected in the equipment blank.

A trip blank (TB) sample was prepared by the laboratory and was stored in the sample cooler throughout the sampling event and during transportation back to the laboratory. The trip blank was analyzed for BTEX and no compounds were detected in concentrations greater than the method detection limits.

Sample "MW-70" was collected as a duplicate from MW-7 and submitted for analysis of BTEX and PAHs. The duplicate results were within the acceptable range.


Sample "MW-160" was collected as a duplicate from MW-16 and submitted to Clarkson for the analysis of total and free cyanide. The duplicate results were within the acceptable range.

DNAPL Recovery Test Well (RTW-1)

During this groundwater sampling event, the Recovery System was operated to purge RTW-1 of DNAPL that had accumulated since the April 2006 sampling event. Approximately ½ gallon of water was pumped out. The water contained only trace amounts (blebs) of NAPL.

If you have any questions or comments, please do not hesitate to call me at (607) 277-5716.

Sincerely,
The RETEC Group, Inc.



Mark Hofferbert, P.E.
Project Engineer

encl: Groundwater Contours (figure)
Laboratory Results Summary (table)
Laboratory Reports

cc: T. Alexander - NFG
D. Flynn - Phillips, Lytle
D. Szymanski - NYSDEC
C. O'Connor - NYSDOH (w. figure/table only)
G. Bailey - NYSDEC (w. figure/table only)
G. Litwin - NYSDOH (w. figure/table only)
File: NFGD3-14852-300

Groundwater and Surface Water Monitoring Results
Mineral Springs Road MGP Site

August 2006

| PARAMETER | GROUNDWATER SAMPLES | | | | | | | | | | | | | | SURFACE WATER | | | | QA / QC | | | | |
|-------------------------|------------------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|---|----------------|----------------|-----------------------|-----------------------|
| | Sample ID : Sample Date : | MW-07 08/02/06 | MW-10 08/02/06 | MW-11A 08/01/06 | MW-12 08/02/06 | MW-13 08/02/06 | MW-14 08/02/06 | MW-15 08/02/06 | MW-16 08/02/06 | MW-17 08/02/06 | MW-19 08/01/06 | MW-20 08/02/06 | MW-21 08/02/06 | MW-22 08/02/06 | MW-23 08/02/06 | Groundwater Standard ⁽¹⁾ | SW-01 08/02/06 | SW-02 08/01/06 | Class D Stream Standard ⁽¹⁾ | TB 08/02/06 | EB 08/02/06 | MW-07 Dup 08/02/06 | MW-16 Dup 08/02/06 |
| BTEX (µg/L) | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | | 2600 | nd | 140 | --- | 1.9 | --- | --- | --- | nd | 5600 | --- | --- | --- | nd | 1 | nd | nd | 10 | nd | nd | 2600 | --- |
| Toluene | | 570 | nd | 1.2 J | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 5 | nd | nd | 6000 | nd | nd | 580 | --- |
| Ethylbenzene | | 2500 | nd | 8.7 | --- | nd | --- | --- | --- | nd | 200 J | --- | --- | --- | nd | 5 | 0.23 J | nd | 150 * | nd | nd | 2600 | --- |
| Xylene (sum of isomers) | | 1500 | nd | 14 J | --- | nd | --- | --- | --- | nd | 810 | --- | --- | --- | nd | 5 (each) | nd | nd | 590 * | nd | nd | 1500 | --- |
| PAHs (µg/L) | | | | | | | | | | | | | | | | | | | | | | | |
| Naphthalene | | 3600 | nd | nd | --- | 2.8 J | --- | --- | --- | nd | 3600 | --- | --- | --- | 3.6 J | 10 * | nd | nd | 110 * | nd | nd | 4400 | --- |
| Acenaphthylene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | NL * | nd | nd | NL | --- | nd | nd | --- |
| Acenaphthene | | 130 E | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 20 * | nd | nd | 48 * | --- | nd | 140 E | --- |
| Fluorene | | 24 | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 50 * | nd | nd | 4.8 * | --- | nd | 27 | --- |
| Phenanthrene | | 28 | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 50 * | nd | nd | 4.5 * | --- | nd | 30 | --- |
| Anthracene | | 3.9 J | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 50 * | nd | nd | 35 * | --- | nd | 4.3 J | --- |
| Fluoranthene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 50 * | nd | nd | NL | --- | nd | nd | --- |
| Pyrene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 50 * | nd | nd | 42 * | --- | nd | nd | --- |
| Benzo(a)Anthracene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 0.002 * | nd | nd | 0.23 * | --- | nd | nd | --- |
| Chrysene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 0.002 * | nd | nd | NL | --- | nd | nd | --- |
| Benzo(b)Fluoranthene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 0.002 * | nd | nd | NL | --- | nd | nd | --- |
| Benzo(k)Fluoranthene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 0.002 * | nd | nd | NL | --- | nd | nd | --- |
| Benzo(a)Pyrene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | ND | nd | nd | NL | --- | nd | nd | --- |
| Indeno(1,2,3-cd)Pyrene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | 0.002 * | nd | nd | NL | --- | nd | nd | --- |
| Dibenzo(a,h)Anthracene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | NL | nd | nd | NL | --- | nd | nd | --- |
| Benzo(g,h,i)Perylene | | nd | nd | nd | --- | nd | --- | --- | --- | nd | nd | --- | --- | --- | nd | NL | nd | nd | NL | --- | nd | nd | --- |
| 2-Methylnaphthalene | | 250 J | nd | nd | --- | nd | --- | --- | --- | nd | 4.8 J | --- | --- | --- | nd | NL | nd | nd | NL | --- | nd | 300 J | --- |
| CYANIDE (µg/L) | | | | | | | | | | | | | | | | | | | | | | | |
| Cyanide, total | | --- | --- | --- | 415 | 300 | 281 | --- | 366 | 183 | --- | 172 | 446 | 540 | 321 | 200 | 24 | nd | 9000 | --- | nd | --- | 370 |
| Cyanide, free | | --- | --- | --- | nd | nd | nd | --- | nd | nd | --- | nd | nd | nd | nd | NL | 2.4 | nd | 22 | --- | nd | --- | nd |
| Water Elevation (feet) | | 579.24 | 580.04 | 580.78 | 579.78 | 578.30 | 577.29 | 579.36 | 580.56 | 580.62 | 580.15 | 577.07 | 576.75 | 579.60 | 577.63 | NL | 580.2 | Approx. 580.3 | --- | --- | --- | --- | --- |

Notes:

NL Not listed

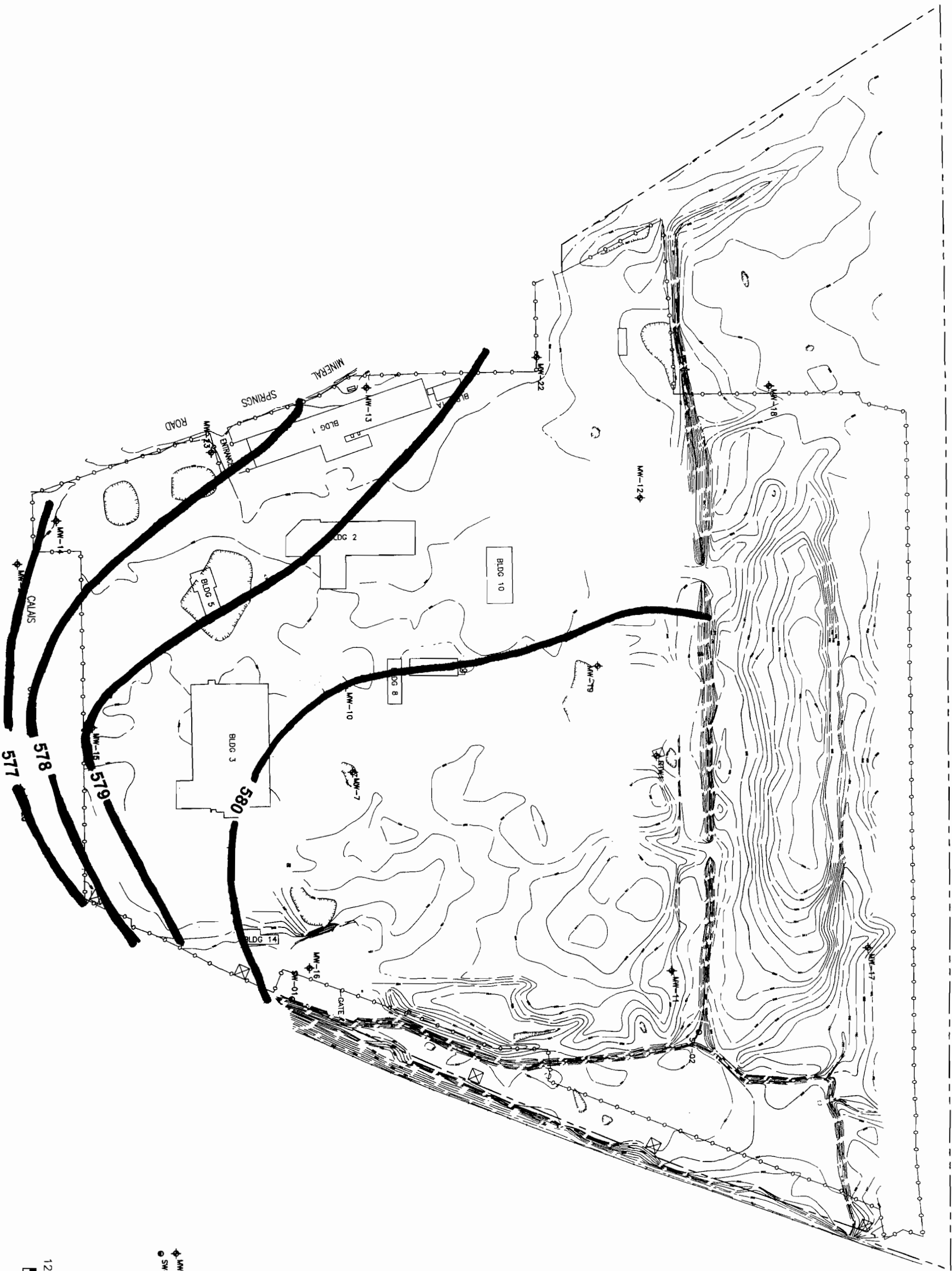
nd Not detected above method detection limit

--- Not analyzed for

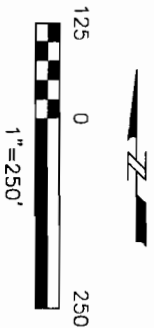
J, E Indicates laboratory estimated value

(1) NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1),
Ambient Water Quality Standards and Guidance Values - 6 NYCRR 700 - revised June 1998.

* Groundwater or Surface Water Guidance Value (no Standard value listed).
Concentrations exceeding NYSDEC regulatory standard or guidance value.



LEGEND
◆ MW-16 MONITORING WELLS
● SW-01 SURFACE WATER SAMPLE LOCATION



| | | |
|---|---------------|-------------------------------------|
| NATIONAL FUEL GAS MINERAL SPRINGS ROAD MGP SITE NFGD3-14852 | | GROUNDWATER CONTOURS August 2006 |
| DATE: 9/11/06 | DRWN: MAM/BIL | |
| FIGURE 1 | | |

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ANALYTICAL REPORT

PROJECT NO. NFGD3-14852-300

Retec-Mineral Springs

Lot #: C6H040256

Jim Edwards

The RETEC Group Inc

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

August 22, 2006

The RETEC Group, Inc.

Client Sample ID: MW-11A

GC/MS Volatiles

Lot-Sample #....: C6H040256-001 Work Order #....: JANN81AA Matrix.....: WG
Date Sampled....: 08/01/06 Date Received...: 08/04/06 MS Run #.....: 6224059
Prep Date.....: 08/12/06 Analysis Date...: 08/12/06
Prep Batch #....: 6224096
Dilution Factor: 5 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|-----------------|--------|--------------------|-------|
| Benzene | 140 | 5.0 | ug/L |
| Ethylbenzene | 8.7 | 5.0 | ug/L |
| Toluene | 1.2 J | 5.0 | ug/L |
| Xylenes (total) | 14 J | 15 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| Toluene-d8 | 95 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 100 | (64 - 135) |
| 4-Bromofluorobenzene | 96 | (70 - 118) |
| Dibromofluoromethane | 96 | (64 - 128) |

NOTE(S):

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-11A

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-001 Work Order #....: JANN81AC Matrix.....: WG
 Date Sampled....: 08/01/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 1 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |
| Acenaphthylene | ND | 10 | ug/L |
| Acenaphthene | ND | 10 | ug/L |
| Fluorene | ND | 10 | ug/L |
| Phenanthrene | ND | 10 | ug/L |
| Anthracene | ND | 10 | ug/L |
| Fluoranthene | ND | 10 | ug/L |
| Pyrene | ND | 10 | ug/L |
| Benzo(a)anthracene | ND | 10 | ug/L |
| Chrysene | ND | 10 | ug/L |
| Benzo(b)fluoranthene | ND | 10 | ug/L |
| Benzo(k)fluoranthene | ND | 10 | ug/L |
| Benzo(a)pyrene | ND | 10 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 10 | ug/L |
| Dibenzo(a,h)anthracene | ND | 10 | ug/L |
| Benzo(ghi)perylene | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 86 | (19 - 138) |
| 2-Fluorobiphenyl | 73 | (35 - 115) |
| 2-Fluorophenol | 72 | (10 - 118) |
| Nitrobenzene-d5 | 75 | (39 - 115) |
| Phenol-d5 | 75 | (18 - 115) |
| Terphenyl-d14 | 61 | (17 - 129) |

The RETEC Group, Inc.

Client Sample ID: SW-02

GC/MS Volatiles

Lot-Sample #....: C6H040256-002 Work Order #....: JANPG1AA Matrix.....: WG
Date Sampled....: 08/01/06 Date Received...: 08/04/06 MS Run #.....: 6221310
Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
Prep Batch #....: 6221524
Dilution Factor: 1 Method.....: SW846 8260B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------------|--------------|
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| <u>SURROGATE</u> | <u>PERCENT</u> <u>RECOVERY</u> | <u>RECOVERY</u> <u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Toluene-d8 | 99 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 96 | (64 - 135) |
| 4-Bromofluorobenzene | 96 | (70 - 118) |
| Dibromofluoromethane | 93 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: SW-02

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-002 Work Order #....: JANPG1AC Matrix.....: WG
 Date Sampled...: 08/01/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 1.02 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |
| Acenaphthylene | ND | 10 | ug/L |
| Acenaphthene | ND | 10 | ug/L |
| Fluorene | ND | 10 | ug/L |
| Phenanthrene | ND | 10 | ug/L |
| Anthracene | ND | 10 | ug/L |
| Fluoranthene | ND | 10 | ug/L |
| Pyrene | ND | 10 | ug/L |
| Benzo(a)anthracene | ND | 10 | ug/L |
| Chrysene | ND | 10 | ug/L |
| Benzo(b)fluoranthene | ND | 10 | ug/L |
| Benzo(k)fluoranthene | ND | 10 | ug/L |
| Benzo(a)pyrene | ND | 10 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 10 | ug/L |
| Dibenzo(a,h)anthracene | ND | 10 | ug/L |
| Benzo(ghi)perylene | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 80 | (19 - 138) |
| 2-Fluorobiphenyl | 70 | (35 - 115) |
| 2-Fluorophenol | 73 | (10 - 118) |
| Nitrobenzene-d5 | 76 | (39 - 115) |
| Phenol-d5 | 71 | (18 - 115) |
| Terphenyl-d14 | 39 | (17 - 129) |

The RETEC Group, Inc.

Client Sample ID: MW-19

GC/MS Volatiles

Lot-Sample #....: C6H040256-003 Work Order #....: JANPH1AA Matrix.....: WG
 Date Sampled....: 08/01/06 Date Received...: 08/04/06 MS Run #.....: 6221310
 Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6221524
 Dilution Factor: 250 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|-----------------|--------|--------------------|-------|
| Benzene | 5600 | 250 | ug/L |
| Ethylbenzene | 200 J | 250 | ug/L |
| Toluene | ND | 250 | ug/L |
| Xylenes (total) | 810 | 750 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| Toluene-d8 | 100 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 102 | (64 - 135) |
| 4-Bromofluorobenzene | 96 | (70 - 118) |
| Dibromofluoromethane | 94 | (64 - 128) |

NOTE(S):

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-19

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-003 Work Order #....: JANPH1AC Matrix.....: WG
 Date Sampled....: 08/01/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 0.94 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | 4.8 J | 9.4 | ug/L |
| Naphthalene | 1300 E | 9.4 | ug/L |
| Acenaphthylene | ND | 9.4 | ug/L |
| Acenaphthene | ND | 9.4 | ug/L |
| Fluorene | ND | 9.4 | ug/L |
| Phenanthrene | ND | 9.4 | ug/L |
| Anthracene | ND | 9.4 | ug/L |
| Fluoranthene | ND | 9.4 | ug/L |
| Pyrene | ND | 9.4 | ug/L |
| Benzo(a)anthracene | ND | 9.4 | ug/L |
| Chrysene | ND | 9.4 | ug/L |
| Benzo(b)fluoranthene | ND | 9.4 | ug/L |
| Benzo(k)fluoranthene | ND | 9.4 | ug/L |
| Benzo(a)pyrene | ND | 9.4 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 9.4 | ug/L |
| Dibenzo(a,h)anthracene | ND | 9.4 | ug/L |
| Benzo(ghi)perylene | ND | 9.4 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 71 | (19 - 138) |
| 2-Fluorobiphenyl | 62 | (35 - 115) |
| 2-Fluorophenol | 63 | (10 - 118) |
| Nitrobenzene-d5 | 96 | (39 - 115) |
| Phenol-d5 | 62 | (18 - 115) |
| Terphenyl-d14 | 39 | (17 - 129) |

NOTE(S) :

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

The RETEC Group, Inc.

Client Sample ID: MW-19

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-003 Work Order #....: JANPH2AC Matrix.....: WG
 Date Sampled....: 08/01/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/10/06
 Prep Batch #....: 6219146
 Dilution Factor: 47 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 470 | ug/L |
| Naphthalene | 3600 | 470 | ug/L |
| Acenaphthylene | ND | 470 | ug/L |
| Acenaphthene | ND | 470 | ug/L |
| Fluorene | ND | 470 | ug/L |
| Phenanthrene | ND | 470 | ug/L |
| Anthracene | ND | 470 | ug/L |
| Fluoranthene | ND | 470 | ug/L |
| Pyrene | ND | 470 | ug/L |
| Benzo(a)anthracene | ND | 470 | ug/L |
| Chrysene | ND | 470 | ug/L |
| Benzo(b)fluoranthene | ND | 470 | ug/L |
| Benzo(k)fluoranthene | ND | 470 | ug/L |
| Benzo(a)pyrene | ND | 470 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 470 | ug/L |
| Dibenzo(a,h)anthracene | ND | 470 | ug/L |
| Benzo(ghi)perylene | ND | 470 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC,DIL | (19 - 138) |
| 2-Fluorobiphenyl | NC,DIL | (35 - 115) |
| 2-Fluorophenol | NC,DIL | (10 - 118) |
| Nitrobenzene-d5 | NC,DIL | (39 - 115) |
| Phenol-d5 | NC,DIL | (18 - 115) |
| Terphenyl-d14 | NC,DIL | (17 - 129) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

The RETEC Group, Inc.

Client Sample ID: MW-13

GC/MS Volatiles

Lot-Sample #....: C6H040256-004 Work Order #....: JANPJ1AA Matrix.....: WG
Date Sampled...: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6221310
Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
Prep Batch #....: 6221524
Dilution Factor: 1 Method.....: SW846 8260B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------------|--------------|
| Benzene | 1.9 | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| <u>SURROGATE</u> | <u>PERCENT</u> <u>RECOVERY</u> | <u>RECOVERY</u> <u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Toluene-d8 | 100 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 96 | (64 - 135) |
| 4-Bromofluorobenzene | 95 | (70 - 118) |
| Dibromofluoromethane | 91 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: MW-13

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------|-----------------|
| Lot-Sample #....: C6H040256-004 | Work Order #....: JANPJ1AC | Matrix.....: WG |
| Date Sampled....: 08/02/06 | Date Received...: 08/04/06 | MS Run #.....: |
| Prep Date.....: 08/07/06 | Analysis Date...: 08/09/06 | |
| Prep Batch #....: 6219146 | | |
| Dilution Factor: 0.99 | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|--------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 9.9 | ug/L |
| Naphthalene | 2.8 J | 9.9 | ug/L |
| Acenaphthylene | ND | 9.9 | ug/L |
| Acenaphthene | ND | 9.9 | ug/L |
| Fluorene | ND | 9.9 | ug/L |
| Phenanthrene | ND | 9.9 | ug/L |
| Anthracene | ND | 9.9 | ug/L |
| Fluoranthene | ND | 9.9 | ug/L |
| Pyrene | ND | 9.9 | ug/L |
| Benzo (a) anthracene | ND | 9.9 | ug/L |
| Chrysene | ND | 9.9 | ug/L |
| Benzo (b) fluoranthene | ND | 9.9 | ug/L |
| Benzo (k) fluoranthene | ND | 9.9 | ug/L |
| Benzo (a) pyrene | ND | 9.9 | ug/L |
| Indeno (1,2,3-cd) pyrene | ND | 9.9 | ug/L |
| Dibenzo (a,h) anthracene | ND | 9.9 | ug/L |
| Benzo (ghi) perylene | ND | 9.9 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 74 | (19 - 138) |
| 2-Fluorobiphenyl | 64 | (35 - 115) |
| 2-Fluorophenol | 65 | (10 - 118) |
| Nitrobenzene-d5 | 69 | (39 - 115) |
| Phenol-d5 | 65 | (18 - 115) |
| Terphenyl-d14 | 53 | (17 - 129) |

NOTE (S) :

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-17

GC/MS Volatiles

Lot-Sample #....: C6H040256-005 Work Order #....: JANPL1AA Matrix.....: WG
Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6221310
Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
Prep Batch #....: 6221524
Dilution Factor: 1 Method.....: SW846 8260B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------|--------------|
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Toluene-d8 | 101 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 95 | (64 - 135) |
| 4-Bromofluorobenzene | 92 | (70 - 118) |
| Dibromofluoromethane | 92 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: MW-17

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------|-----------------|
| Lot-Sample #....: C6H040256-005 | Work Order #....: JANPL1AC | Matrix.....: WG |
| Date Sampled....: 08/02/06 | Date Received...: 08/04/06 | MS Run #.....: |
| Prep Date.....: 08/07/06 | Analysis Date...: 08/09/06 | |
| Prep Batch #....: 6219146 | | |
| Dilution Factor: 1.03 | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|--------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |
| Acenaphthylene | ND | 10 | ug/L |
| Acenaphthene | ND | 10 | ug/L |
| Fluorene | ND | 10 | ug/L |
| Phenanthrene | ND | 10 | ug/L |
| Anthracene | ND | 10 | ug/L |
| Fluoranthene | ND | 10 | ug/L |
| Pyrene | ND | 10 | ug/L |
| Benzo (a) anthracene | ND | 10 | ug/L |
| Chrysene | ND | 10 | ug/L |
| Benzo (b) fluoranthene | ND | 10 | ug/L |
| Benzo (k) fluoranthene | ND | 10 | ug/L |
| Benzo (a) pyrene | ND | 10 | ug/L |
| Indeno (1,2,3-cd) pyrene | ND | 10 | ug/L |
| Dibenzo (a,h) anthracene | ND | 10 | ug/L |
| Benzo (ghi) perylene | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 72 | (19 - 138) |
| 2-Fluorobiphenyl | 66 | (35 - 115) |
| 2-Fluorophenol | 65 | (10 - 118) |
| Nitrobenzene-d5 | 70 | (39 - 115) |
| Phenol-d5 | 63 | (18 - 115) |
| Terphenyl-d14 | 36 | (17 - 129) |

The RETEC Group, Inc.

Client Sample ID: EB-020806

GC/MS Volatiles

Lot-Sample #....: C6H040256-006 Work Order #....: JANPM1AA Matrix.....: WQ
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6221310
 Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6221524
 Dilution Factor: 1 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|-----------------|--------|--------------------|-------|
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| Toluene-d8 | 97 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 98 | (64 - 135) |
| 4-Bromofluorobenzene | 96 | (70 - 118) |
| Dibromofluoromethane | 93 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: EB-020806

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-006 Work Order #....: JANPMLAC Matrix.....: WQ
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 1.01 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |
| Acenaphthylene | ND | 10 | ug/L |
| Acenaphthene | ND | 10 | ug/L |
| Fluorene | ND | 10 | ug/L |
| Phenanthrene | ND | 10 | ug/L |
| Anthracene | ND | 10 | ug/L |
| Fluoranthene | ND | 10 | ug/L |
| Pyrene | ND | 10 | ug/L |
| Benzo(a)anthracene | ND | 10 | ug/L |
| Chrysene | ND | 10 | ug/L |
| Benzo(b)fluoranthene | ND | 10 | ug/L |
| Benzo(k)fluoranthene | ND | 10 | ug/L |
| Benzo(a)pyrene | ND | 10 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 10 | ug/L |
| Dibenzo(a,h)anthracene | ND | 10 | ug/L |
| Benzo(ghi)perylene | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 73 | (19 - 138) |
| 2-Fluorobiphenyl | 66 | (35 - 115) |
| 2-Fluorophenol | 71 | (10 - 118) |
| Nitrobenzene-d5 | 73 | (39 - 115) |
| Phenol-d5 | 71 | (18 - 115) |
| Terphenyl-d14 | 73 | (17 - 129) |

The RETEC Group, Inc.

Client Sample ID: SW-01

GC/MS Volatiles

Lot-Sample #....: C6H040256-007 Work Order #....: JANPV1AA Matrix.....: WG
Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6221310
Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
Prep Batch #....: 6221524
Dilution Factor: 1 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|-----------------|--------|--------------------|-------|
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | 0.23 J | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| Toluene-d8 | 98 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 94 | (64 - 135) |
| 4-Bromofluorobenzene | 92 | (70 - 118) |
| Dibromofluoromethane | 89 | (64 - 128) |

NOTE(S):

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: SW-01

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------|-----------------|
| Lot-Sample #....: C6H040256-007 | Work Order #....: JANPV1AC | Matrix.....: WG |
| Date Sampled....: 08/02/06 | Date Received...: 08/04/06 | MS Run #.....: |
| Prep Date.....: 08/07/06 | Analysis Date...: 08/09/06 | |
| Prep Batch #....: 6219146 | | |
| Dilution Factor: 0.96 | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 9.6 | ug/L |
| Naphthalene | ND | 9.6 | ug/L |
| Acenaphthylene | ND | 9.6 | ug/L |
| Acenaphthene | ND | 9.6 | ug/L |
| Fluorene | ND | 9.6 | ug/L |
| Phenanthrene | ND | 9.6 | ug/L |
| Anthracene | ND | 9.6 | ug/L |
| Fluoranthene | ND | 9.6 | ug/L |
| Pyrene | ND | 9.6 | ug/L |
| Benzo(a)anthracene | ND | 9.6 | ug/L |
| Chrysene | ND | 9.6 | ug/L |
| Benzo(b)fluoranthene | ND | 9.6 | ug/L |
| Benzo(k)fluoranthene | ND | 9.6 | ug/L |
| Benzo(a)pyrene | ND | 9.6 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | ug/L |
| Dibenzo(a,h)anthracene | ND | 9.6 | ug/L |
| Benzo(ghi)perylene | ND | 9.6 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 79 | (19 - 138) |
| 2-Fluorobiphenyl | 69 | (35 - 115) |
| 2-Fluorophenol | 72 | (10 - 118) |
| Nitrobenzene-d5 | 77 | (39 - 115) |
| Phenol-d5 | 71 | (18 - 115) |
| Terphenyl-d14 | 38 | (17 - 129) |

The RETEC Group, Inc.

Client Sample ID: MW-10

GC/MS Volatiles

Lot-Sample #....: C6H040256-008 Work Order #....: JANPX1AA Matrix.....: WG
Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6221310
Prep Date.....: 08/09/06 Analysis Date...: 08/09/06
Prep Batch #....: 6221524
Dilution Factor: 1 Method.....: SW846 8260B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------------|--------------|
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| <u>SURROGATE</u> | <u>PERCENT</u> <u>RECOVERY</u> | <u>RECOVERY</u> <u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Toluene-d8 | 92 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 90 | (64 - 135) |
| 4-Bromofluorobenzene | 89 | (70 - 118) |
| Dibromofluoromethane | 87 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: MW-10

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-008 Work Order #....: JANPX1AC Matrix.....: WG
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 0.99 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 9.9 | ug/L |
| Naphthalene | ND | 9.9 | ug/L |
| Acenaphthylene | ND | 9.9 | ug/L |
| Acenaphthene | ND | 9.9 | ug/L |
| Fluorene | ND | 9.9 | ug/L |
| Phenanthrene | ND | 9.9 | ug/L |
| Anthracene | ND | 9.9 | ug/L |
| Fluoranthene | ND | 9.9 | ug/L |
| Pyrene | ND | 9.9 | ug/L |
| Benzo(a)anthracene | ND | 9.9 | ug/L |
| Chrysene | ND | 9.9 | ug/L |
| Benzo(b)fluoranthene | ND | 9.9 | ug/L |
| Benzo(k)fluoranthene | ND | 9.9 | ug/L |
| Benzo(a)pyrene | ND | 9.9 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 9.9 | ug/L |
| Dibenzo(a,h)anthracene | ND | 9.9 | ug/L |
| Benzo(ghi)perylene | ND | 9.9 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 74 | (19 - 138) |
| 2-Fluorobiphenyl | 62 | (35 - 115) |
| 2-Fluorophenol | 70 | (10 - 118) |
| Nitrobenzene-d5 | 71 | (39 - 115) |
| Phenol-d5 | 70 | (18 - 115) |
| Terphenyl-d14 | 61 | (17 - 129) |

The RETEC Group, Inc.

Client Sample ID: MW-7

GC/MS Volatiles

Lot-Sample #....: C6H040256-009 Work Order #....: JANP01AA Matrix.....: WG
Date Sampled...: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6224059
Prep Date.....: 08/12/06 Analysis Date...: 08/12/06
Prep Batch #....: 6224096
Dilution Factor: 100 Method.....: SW846 8260B

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------------|--------------|
| Benzene | 2600 | 100 | ug/L |
| Ethylbenzene | 2500 | 100 | ug/L |
| Toluene | 570 | 100 | ug/L |
| Xylenes (total) | 1500 | 300 | ug/L |

| <u>SURROGATE</u> | <u>PERCENT</u> <u>RECOVERY</u> | <u>RECOVERY</u> <u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Toluene-d8 | 96 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 104 | (64 - 135) |
| 4-Bromofluorobenzene | 98 | (70 - 118) |
| Dibromofluoromethane | 97 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: MW-7

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-009 Work Order #....: JANP01AC Matrix.....: WG
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 0.94 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | 310 E | 9.4 | ug/L |
| Naphthalene | 1500 E | 9.4 | ug/L |
| Acenaphthylene | ND | 9.4 | ug/L |
| Acenaphthene | 130 E | 9.4 | ug/L |
| Fluorene | 24 | 9.4 | ug/L |
| Phenanthrene | 28 | 9.4 | ug/L |
| Anthracene | 3.9 J | 9.4 | ug/L |
| Fluoranthene | ND | 9.4 | ug/L |
| Pyrene | ND | 9.4 | ug/L |
| Benzo(a)anthracene | ND | 9.4 | ug/L |
| Chrysene | ND | 9.4 | ug/L |
| Benzo(b)fluoranthene | ND | 9.4 | ug/L |
| Benzo(k)fluoranthene | ND | 9.4 | ug/L |
| Benzo(a)pyrene | ND | 9.4 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 9.4 | ug/L |
| Dibenzo(a,h)anthracene | ND | 9.4 | ug/L |
| Benzo(ghi)perylene | ND | 9.4 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 66 | (19 - 138) |
| 2-Fluorobiphenyl | 56 | (35 - 115) |
| 2-Fluorophenol | 58 | (10 - 118) |
| Nitrobenzene-d5 | 93 | (39 - 115) |
| Phenol-d5 | 59 | (18 - 115) |
| Terphenyl-d14 | 42 | (17 - 129) |

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.
 J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-7

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-009 Work Order #....: JANP02AC Matrix.....: WG
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/12/06
 Prep Batch #....: 6219146
 Dilution Factor: 94 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | 250 J | 940 | ug/L |
| Naphthalene | 3600 | 940 | ug/L |
| Acenaphthylene | ND | 940 | ug/L |
| Acenaphthene | ND | 940 | ug/L |
| Fluorene | ND | 940 | ug/L |
| Phenanthrene | ND | 940 | ug/L |
| Anthracene | ND | 940 | ug/L |
| Fluoranthene | ND | 940 | ug/L |
| Pyrene | ND | 940 | ug/L |
| Benzo(a)anthracene | ND | 940 | ug/L |
| Chrysene | ND | 940 | ug/L |
| Benzo(b)fluoranthene | ND | 940 | ug/L |
| Benzo(k)fluoranthene | ND | 940 | ug/L |
| Benzo(a)pyrene | ND | 940 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 940 | ug/L |
| Dibenzo(a,h)anthracene | ND | 940 | ug/L |
| Benzo(ghi)perylene | ND | 940 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC, DIL | (19 - 138) |
| 2-Fluorobiphenyl | NC, DIL | (35 - 115) |
| 2-Fluorophenol | NC, DIL | (10 - 118) |
| Nitrobenzene-d5 | NC, DIL | (39 - 115) |
| Phenol-d5 | NC, DIL | (18 - 115) |
| Terphenyl-d14 | NC, DIL | (17 - 129) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-70

GC/MS Volatiles

Lot-Sample #....: C6H040256-010
Date Sampled....: 08/02/06
Prep Date.....: 08/12/06
Prep Batch #....: 6224096
Dilution Factor: 125

Work Order #....: JANP11AA
Date Received...: 08/04/06
Analysis Date...: 08/12/06
Method.....: SW846 8260B

Matrix.....: WG
MS Run #.....: 6224059

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|-----------------|--------|--------------------|-------|
| Benzene | 2600 | 120 | ug/L |
| Ethylbenzene | 2600 | 120 | ug/L |
| Toluene | 580 | 120 | ug/L |
| Xylenes (total) | 1500 | 380 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| Toluene-d8 | 98 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 107 | (64 - 135) |
| 4-Bromofluorobenzene | 101 | (70 - 118) |
| Dibromofluoromethane | 108 | (64 - 128) |

The RETEC Group, Inc.

Client Sample ID: MW-70

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-010 Work Order #....: JANP11AC Matrix.....: WG
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 0.94 Method.....: SWB46 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|--------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | 350 E | 9.4 | ug/L |
| Naphthalene | 1600 E | 9.4 | ug/L |
| Acenaphthylene | ND | 9.4 | ug/L |
| Acenaphthene | 140 E | 9.4 | ug/L |
| Fluorene | 27 | 9.4 | ug/L |
| Phenanthrene | 30 | 9.4 | ug/L |
| Anthracene | 4.3 J | 9.4 | ug/L |
| Fluoranthene | ND | 9.4 | ug/L |
| Pyrene | ND | 9.4 | ug/L |
| Benzo (a) anthracene | ND | 9.4 | ug/L |
| Chrysene | ND | 9.4 | ug/L |
| Benzo (b) fluoranthene | ND | 9.4 | ug/L |
| Benzo (k) fluoranthene | ND | 9.4 | ug/L |
| Benzo (a) pyrene | ND | 9.4 | ug/L |
| Indeno (1,2,3-cd) pyrene | ND | 9.4 | ug/L |
| Dibenzo (a,h) anthracene | ND | 9.4 | ug/L |
| Benzo (ghi) perylene | ND | 9.4 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 74 | (19 - 138) |
| 2-Fluorobiphenyl | 62 | (35 - 115) |
| 2-Fluorophenol | 66 | (10 - 118) |
| Nitrobenzene-d5 | 107 | (39 - 115) |
| Phenol-d5 | 67 | (18 - 115) |
| Terphenyl-d14 | 45 | (17 - 129) |

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-70

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-010 Work Order #....: JANP12AC Matrix.....: WG
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/12/06
 Prep Batch #....: 6219146
 Dilution Factor: 94 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | 300 J | 940 | ug/L |
| Naphthalene | 4400 | 940 | ug/L |
| Acenaphthylene | ND | 940 | ug/L |
| Acenaphthene | ND | 940 | ug/L |
| Fluorene | ND | 940 | ug/L |
| Phenanthrene | ND | 940 | ug/L |
| Anthracene | ND | 940 | ug/L |
| Fluoranthene | ND | 940 | ug/L |
| Pyrene | ND | 940 | ug/L |
| Benzo(a)anthracene | ND | 940 | ug/L |
| Chrysene | ND | 940 | ug/L |
| Benzo(b)fluoranthene | ND | 940 | ug/L |
| Benzo(k)fluoranthene | ND | 940 | ug/L |
| Benzo(a)pyrene | ND | 940 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 940 | ug/L |
| Dibenzo(a,h)anthracene | ND | 940 | ug/L |
| Benzo(ghi)perylene | ND | 940 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC,DIL | (19 - 138) |
| 2-Fluorobiphenyl | NC,DIL | (35 - 115) |
| 2-Fluorophenol | NC,DIL | (10 - 118) |
| Nitrobenzene-d5 | NC,DIL | (39 - 115) |
| Phenol-d5 | NC,DIL | (18 - 115) |
| Terphenyl-d14 | NC,DIL | (17 - 129) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: MW-23

GC/MS Volatiles

Lot-Sample #...: C6H040256-011 Work Order #...: JANP31AA Matrix.....: WG
Date Sampled...: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6224059
Prep Date.....: 08/12/06 Analysis Date...: 08/12/06
Prep Batch #...: 6224096
Dilution Factor: 1 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING | |
|-----------------|--------|-----------|-------|
| | | LIMIT | UNITS |
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY | |
|-----------------------|---------------------|------------|--|
| | | LIMITS | |
| Toluene-d8 | 95 | (71 - 118) | |
| 1,2-Dichloroethane-d4 | 102 | (64 - 135) | |
| 4-Bromofluorobenzene | 100 | (70 - 118) | |
| Dibromofluoromethane | 100 | (64 - 128) | |

The RETEC Group, Inc.

Client Sample ID: MW-23

GC/MS Semivolatiles

Lot-Sample #....: C6H040256-011 Work Order #....: JANP31AC Matrix.....: WG
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....:
 Prep Date.....: 08/07/06 Analysis Date...: 08/09/06
 Prep Batch #....: 6219146
 Dilution Factor: 0.94 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| 2-Methylnaphthalene | ND | 9.4 | ug/L |
| Naphthalene | 3.6 J | 9.4 | ug/L |
| Acenaphthylene | ND | 9.4 | ug/L |
| Acenaphthene | ND | 9.4 | ug/L |
| Fluorene | ND | 9.4 | ug/L |
| Phenanthrene | ND | 9.4 | ug/L |
| Anthracene | ND | 9.4 | ug/L |
| Fluoranthene | ND | 9.4 | ug/L |
| Pyrene | ND | 9.4 | ug/L |
| Benzo(a)anthracene | ND | 9.4 | ug/L |
| Chrysene | ND | 9.4 | ug/L |
| Benzo(b)fluoranthene | ND | 9.4 | ug/L |
| Benzo(k)fluoranthene | ND | 9.4 | ug/L |
| Benzo(a)pyrene | ND | 9.4 | ug/L |
| Indeno(1,2,3-cd)pyrene | ND | 9.4 | ug/L |
| Dibenzo(a,h)anthracene | ND | 9.4 | ug/L |
| Benzo(ghi)perylene | ND | 9.4 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 56 | (19 - 138) |
| 2-Fluorobiphenyl | 43 | (35 - 115) |
| 2-Fluorophenol | 49 | (10 - 118) |
| Nitrobenzene-d5 | 50 | (39 - 115) |
| Phenol-d5 | 48 | (18 - 115) |
| Terphenyl-d14 | 49 | (17 - 129) |

NOTE (S) :

J Estimated result. Result is less than RL.

The RETEC Group, Inc.

Client Sample ID: TB-080206

GC/MS Volatiles

Lot-Sample #....: C6H040256-012 Work Order #....: JANP51AA Matrix.....: WQ
 Date Sampled....: 08/02/06 Date Received...: 08/04/06 MS Run #.....: 6224059
 Prep Date.....: 08/12/06 Analysis Date...: 08/12/06
 Prep Batch #....: 6224096
 Dilution Factor: 1 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|-----------------|--------|--------------------|-------|
| Benzene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| Xylenes (total) | ND | 3.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| Toluene-d8 | 95 | (71 - 118) |
| 1,2-Dichloroethane-d4 | 103 | (64 - 135) |
| 4-Bromofluorobenzene | 101 | (70 - 118) |
| Dibromofluoromethane | 98 | (64 - 128) |

August 14, 2006

Mark Hofferbert
The RETEC Group, Inc.
1001 W. Seneca St., Suite 204
Ithaca, NY 14850-3342

Re: Project Number NFGD3-14852 groundwater samples analyzed by Eleanor Hopke, Clarkson University

Dear Mr. Hofferbert:

Thirteen groundwater samples were received from The RETEC Group, Inc. on August 4, 2006. The samples arrived cold (4°C) in brown plastic bottles, two 250-ml bottles for each sample. The Chain of Custody Record indicated that the samples were treated with lead carbonate and filtered in the field. pH's of the samples were about 14. Requested analyses were Total Cyanide and Free Cyanide by Microdiffusion.

The duplicate sample containers were composited before analysis. Laboratory matrix spikes and matrix spike duplicates, check standards, reagent blanks and calibration standard repeats were analyzed along with the samples.

The following methods were used to analyze the samples:

Total Cyanide – APHA *Standard Methods* 4500-CN⁻ C. "Total Cyanide after Distillation" and APHA *Standard Methods* 4500-CN⁻ E., "Colorimetric Method."

Free Cyanide - ASTM D4282-95. "Standard Test Method for Determination of Free Cyanide in Water and Wastewater by Microdiffusion." using lower concentration standards to better bracket the sample concentrations, and substituting APHA 4500-CN⁻ D. to standardize the stock cyanide standard. Additional buffer was added to lower the pH of the samples adequately for the analysis.

For Diffusible and Total Cyanide, the stock cyanide standard was calibrated using *Standard Methods*, 4500-CN⁻ D., "Titrimetric Method."

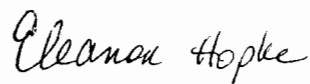
The analytical results follow:

Groundwater Samples
TOTAL CYANIDE and FREE CYANIDE
Results in $\mu\text{g CN}^-/\text{L}$

| ID | TOTAL CN | FREE CYANIDE |
|-------------------|----------|--------------|
| MW-12 | 415 | <2.3 |
| MW-13 | 300 | <2.3 |
| MW-14 | 281 | <2.3 |
| MW-16 | 368 | <2.3 |
| MW-17 | 183 | <2.3 |
| MW-20 | 172 | <2.3 |
| MW-21 | 448 | <2.3 |
| MW-22 | 540 | <2.3 |
| MW-23 | 321 | <2.3 |
| MW-160 | 370 | <2.3 |
| SW-01 | 24 | 2.4 |
| SW-02 | <3 | <2.3 |
| EB 080206 | <3 | <2.3 |
| | | |
| MATRIX SPIKE | 96.6% | 99.2% |
| MATRIX SPIKE DUP. | 95.3% | 95.4% |
| | MW-21 | MW-20 |
| | | |
| REAGENT BLANK | <3 | <2.3 |
| | | |
| CHECK STANDARD | 96.2% | 100.8% |
| | | |
| CALIBRATION CHECK | 103.0% | 90.6% |
| | | |

I will be very glad to answer any questions or give further information about the analyses. Thank you for the opportunity to analyze them for you.

Sincerely,



Eleanor Hopke
Research Technician
Tel: 315-268-3772
e-mail: hopkeef@clarkson.edu

Chain of Custody Record

No. 0475

The RETEC Group, Inc.
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(607) 277-5716 Phone • (607) 277-9057 Fax
www.retec.com



| | |
|-----------------------|-------------------|
| Project Name: | Mineral Springs |
| Send Report To: | Mark H. Efferbert |
| Address: | Above Address |
| Project Number: | MF603-14852 |
| Sampler (Print Name): | Jesse Lloyd |
| Sampler (Print Name): | |
| Shipment Method: | Fed Ex |
| Airbill Number: | |
| Laboratory Receiving: | STL P. H. H. H. |

| | | | | | |
|-----------------|-------------|-------------|---------------|----------------------|--|
| Field Sample ID | Sample Date | Sample Time | Sample Matrix | Number of Containers | Analysis Requested |
| MW-11A | 8-1-06 | 1620 | Ag | 5 | <p>PAH (EPA 8210)</p> <p>BTEX (EPA 8210)</p> |
| SW-02 | ↓ | 1630 | | 5 | |
| MW-19 | | 1745 | | | |
| MW-13 | 8-2-06 | 1017 | | | |
| MW-17 | | 1155 | | | |
| EB-020806 | | 1220 | | | |
| SW-01 | | 1330 | | | |
| MW-10 | | 1446 | | | |
| MW-7 | | 1539 | | | |
| MW-70 | | 1545 | | | |
| MW-23 | | | | | |

| | | |
|-------------------|--------------------------------------|--|
| Purchase Order #: | Comments, Special Instructions, etc. | Lab Sample ID (to be completed by lab) |
|-------------------|--------------------------------------|--|

| | | | |
|------------------------------|--------------------------|-------|-------|
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |

| | | |
|---|---|------------------------------|
| Sample Custodian Remarks (Completed By Laboratory): | Turnaround | Sample Receipt |
| QA/QC Level | Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Other <input type="checkbox"/> | Total # Containers Received? |
| | Routine <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/> | COC Seals Present? |
| | | COC Seals Intact? |
| | | Received Containers Intact? |
| | | Temperature? |

1

The RETEC Group, Inc.
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| | | | | |
|---|-------------|---|---------------|----------------------|
| Project Name: Mineral Springs | | Project Number: AFGD3-14852 | | |
| Send Report To: Mark H. Ferber | | Sampler (Print Name): Jesse Lloyd | | |
| Address: Above address | | Sampler (Print Name): | | |
| Phone: | | Shipment Method: Fed Ex | | |
| Fax: | | Airbill Number: | | |
| Laboratory Receiving: Clarkson University | | Analysis Requested: Total CN (EPA Method 8210) & CN (EPA Method 8211) | | |
| Field Sample ID | Sample Date | Sample Time | Sample Matrix | Number of Containers |
| MW-20 | 8-1-06 | 1247 | Az | 2 |
| MW-21 | ↓ | 1342 | | |
| MW-22 | ↓ | 1459 | | |
| MW-12 | 8-2-06 | 0922 | | |
| MW-13 | ↓ | 1017 | | |
| MW-17 | ↓ | 1155 | | |
| EB-020806 | ↓ | 1220 | | |
| MW-16 | ↓ | 1335 | | |
| MW-160 | ↓ | 1333 | | |
| SW-01 | ↓ | 1330 | | |
| MW-23 | ↓ | 1740 | | |
| MW-14 | 8-1-06 | 1630 | | |
| SW-02 | | | | |

| | | | | | | | |
|------------------------------|--|--------------------------|--|--------------|--|------------|--|
| Relinquished by: (Signature) | | Received by: (Signature) | | Date: 8-3-06 | | Time: 1500 | |
| Relinquished by: (Signature) | | Received by: (Signature) | | Date: | | Time: | |
| Relinquished by: (Signature) | | Received by: (Signature) | | Date: | | Time: | |

| | | | | | |
|-------------------|--|---|--|--|--|
| Purchase Order #: | | Comments, Special Instructions, etc. | | Lab Sample ID (to be completed by lab) | |
| | | Samples treated with PbCO ₃ & Filtered | | | |

| | | | |
|---|--|------------------------------|--|
| Sample Custodian Remarks (Completed By Laboratory): | | Sample Receipt | |
| Turnaround | | Total # Containers Received? | |
| QA/QC Level | | COC Seals Present? | |
| Level I | | COC Seals Intact? | |
| Level II | | Received Containers Intact? | |
| Level III | | Temperature? | |
| Other | | | |

| White: Lab Copy | Yellow: PM Copy | Pink: Field Copy | Gold: PM/QA/QC Copy |
|-----------------|-----------------|------------------|---------------------|
|-----------------|-----------------|------------------|---------------------|

