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September 23, 2002

Ms. Diane DeCamilla M & T Bank 4925 Main Street Williamsville, New York 14226

Re: Limited and Focused Subsurface Investigation

21 Valley Street
Mayville, New York
LCS Project Number #02B273.22

Dear Ms. DeCamilla:

At your request, Lender Consulting Services, Inc. (LCS) performed a limited and focused subsurface investigation at 21 Valley Street, Mayville, New York (See Figure 1). This investigation was recommended based on the information summarized in LCS' April 12, 2002 Transaction Screen Process Environmental Site Assessment. Through that assessment, LCS discovered that the former on-site operations included a vapor degreaser and a former septic tank used for the storage of solvent wastes. Based on records reviewed by LCS, the former septic tank was removed by others and the surrounding soils sampled to determine the environmental quality of the soils remaining. Based on the test results provided to LCS, two of the three samples exceeded the New York State Department of Environmental Conservation (NYSDEC) guidance values (Technical and Administrative Guidance Memorandum, TAGM 4046, typically used to assess environmental soil conditions at sites) for trichloroethene, TCE, a common solvent. The current environmental quality of the soils and groundwater at the site was unknown.

The purpose of this intrusive investigation was to better assess the environmental quality of the soils and groundwater proximate to the former vapor degreaser and the former septic tank. All work was completed outside of the subject structure as LCS was informed the interior was inaccessible for drilling.

Soil samples were collected for stratigraphic characterization and field monitoring. Temporary groundwater monitoring wells (TPMWs) were installed within select test borings. Selected soil and groundwater samples were submitted for laboratory analysis to confirm field observations. All borehole locations were selected based on the reported locations of the historic septic tank and vapor degreaser. The scope was not designed to quantify any contamination.

The following is a summary of the methods and results of the investigation.

#### Methods of Investigation

#### Soil

Boreholes BH1 through BH8 were completed on August 23, 2002, proximate to the reported historic septic tank location and outside the on-site structure, proximate to the reported former vapor degreaser. (See Figure 2.) [It should be noted that the site structure limited the areas available for investigation.] Soil samples were collected with an approximate 1.5 inch diameter, 48-inch long macro-core sampler. Soil samples were generally collected within each borehole continuously from the ground surface until approximately 12 or 16 feet below the ground surface (ft. bgs). Any downhole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.



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The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes and at room temperature, the container was opened slightly and total volatile organic compound (VOC) concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with some solvents.) The results of this screening are included in the attached boring logs. Based on the field observations and screening results, soils were selected for analysis (see below).

#### Groundwater

Temporary groundwater monitoring wells TPMW1 through TPMW3 were installed within test borings BH1 through BH3, respectively. TPMW3 was located in the area of the former septic tank; the two other wells were located in likely down-gradient locations. Generally, the bottoms of the wells were set to approximately 15 ft. bgs. This allowed each well to be installed at/above a silty clay confining unit. (Due to the nature of solvents, this is the likely location to encounter solvent contamination in groundwater.) Generally, the wells consist of 1-inch diameter PVC screen and riser with a silica filter pack placed around the well screen. A bentonite seal was placed above the sand. The wells were covered with plastic caps, to prevent surface water from entering the wells. Refer to the attached well construction diagrams for specific well construction details.

The groundwater samples were collected on August 25, 2002. Prior to sample collection, each well was developed by removing three to five well volumes from the well. New disposable dedicated PVC bailers were used for well development and sample collection activities.

#### DNAPL

During soil and groundwater collection, LCS noted what appeared to be a free-phase liquid at the base of the water column at BH3/TPMW3. Due to the nature of this observed material (apparently heavier than water) and its free-phase form, the material is typically identified as a dense non-aqueous phase liquid (DNAPL). LCS suspected that this material was TCE, based on historic site testing. A separate sample of this suspected DNAPL was collected at the time of groundwater collection for analysis. Due to the presence of this suspect material, care was taken not to extend any of the boreholes through the clay-rich material that appeared to be acting as an aquitard.



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#### Sample Analysis

Following labeling of the laboratory-supplied sample containers, five soil, three groundwater and one DNAPL sample were selected for analysis and placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory, for analysis for VOCs in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8260 (Target Compound list).

The following table summarizes the specific analytical testing performed and their respective sample locations.

| Sample Location    | Analytical Testing Performed |
|--------------------|------------------------------|
| Soil               |                              |
| BH2 (6-8 ft. bgs)  | 8260 TCL                     |
| BH3 (8-10 ft. bgs) | 8260 TCL                     |
| BH4 (8-10 ft. bgs) | 8260 TCL                     |
| BH6 (8-10 ft. bgs) | 8260 TCL                     |
| BH8 (8-10 ft. bgs) | 8260 TCL                     |
| Groundwater        |                              |
| TPMW1              | 8260 TCL                     |
| TPMW2              | 8260 TCL                     |
| TPMW3 (water)      | 8260 TCL                     |
| TPMW3 (DNAPL)      | 8260 TCL                     |

#### Results of Field Investigation

Eight boreholes (BH1 through BH8) were completed at the subject property. (See Figure 2.) A total of 53 soil samples were collected for geologic description. Most of the boreholes generally encountered sandy gravel fill material to approximately three to four ft. bgs underlain by silty sand then underlain by silty clay. Groundwater was encountered in each of the boreholes at depths ranging from seven to eight ft. bgs (just above the clay-rich material).

There was significant visual evidence of solvent-type impact in addition to strong solvent-type odors noted within soil from six boreholes [BH3 through BH8], all proximate to the former septic tank. PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in 47 of the 53 samples collected. These elevated concentrations ranged from 0.1 ppm to greater than 2,000 ppm. Some of the PID measurements and field observations would typically suggest significant VOC impact.

Strong solvent-type odors and staining were noted within test borings BH3 (6-14 ft. bgs), BH4 (4-12 ft. bgs), BH5 (6-12 ft. bgs), BH6 (6-12 ft. bgs), BH7 (2-12 ft. bgs) and BH8 (6-12 ft. bgs; apparent DNAPL was noted within test borings BH3 (6-14 ft. bgs); BH5 (8-12 ft. bgs); BH6 (8-12 ft. bgs), and BH8 (4-12 ft. bgs). DNAPL was also noted within TPMW3 during well development and sample collection.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.



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#### **Analytical Testing Results**

The samples collected and analyzed detected the following analytes. The respective concentrations as well as applicable regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

Soil - VOC Analysis by 8260 (Target Compound list)

| Compound                  | BH2<br>(6-8 ft. bgs)<br>μg/kg | BH3<br>(8-10 ft. bgs)<br>μg/kg | BH4<br>(8-10 ft. bgs)<br>μg/kg | BH6<br>(8-10 ft. bgs)<br>μg/kg | BH8<br>(8-10 ft. bgs)<br>μg/kg | NYSDEC<br>Guidance Value<br>µg/kg |
|---------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|
| methylene chloride        | 366                           | <250                           | <250                           | <250                           | <250                           | 1,000                             |
| cis-1,2-dichloroethene    | <250                          | 1,070                          | 1,310                          | <250                           | 429                            | NA _                              |
| 1,1,1-trichloroethane     | <250                          | 1,060                          | <250                           | <250                           | <250                           | 8,000                             |
| trichloroethene           | 74,500                        | 10,100,000                     | 12,100,000                     | 730                            | 192,000                        | 7,000                             |
| toluene                   | <250                          | 2.280                          | 2,570                          | <250                           | <250                           | 1,500                             |
| 1,1,2-trichloroethane     | <250                          | 13,000                         | 4,250                          | <250                           | <250                           | NA                                |
| tetrachloroethene         | <250                          | - 30,400                       | 15,600                         | <250                           | 459                            | 14,000                            |
| ethylbenzene              | <250                          | 3,000                          | 2,330                          | <250                           | <250                           | 55,000                            |
| m,p-xylene                | <500                          | 15,401                         | 9,080                          | 1,560                          | <500                           | 1,200*                            |
| o-xylene                  | <250                          | ** <b>AZD</b> **               | 3,570                          | <250                           | <250                           | 1,200*                            |
| 1,1,2,2-tetrachloroethane | <250                          | 537                            | <250                           | <250                           | <250                           | 6,000                             |

μg/kg = micrograms per kilogram

NYSDEC Guidance Values = Division Technical and Administrative Guidance Memorandum No. 4046 (TAGM 4046):

Determination of Soil Cleanup Objectives and Cleanup levels and addendum (August, 2001).

- \* = NYSDEC guidance value is the sum of m,p-xylene and o-xylene.
  - < = Analyte was not detected at the detection level indicated.
  - = Analyte detected at a concentration above NYSDEC Recommended Soil Clean up Objectives

Groundwater - VOC Analysis by 8260 (Target Compound list)

| Compound                  | ΤΡ <b>ΜW1</b><br>μg/l | TPMW2<br>μg/l | TPMW3<br>μg/I<br>(water fraction) | NYSDEC<br>Standard<br>μg/I | TPMW3<br>(DNAPL<br>fraction)<br>μg/l |
|---------------------------|-----------------------|---------------|-----------------------------------|----------------------------|--------------------------------------|
| vinyl chloride            | 2                     | · 64          | 850                               | 2                          | <1,300,000                           |
| methylene chloride        | <2                    | <10           | <1,000                            | 5_                         | 131,000                              |
| cis-1,2-dichloroethene    | 1                     | 848           | 4,420                             | 5                          | 457,000                              |
| 1,1,1-trichloroethane     | <1                    | <5            | <500                              | 5_                         | 175,000                              |
| trichloroethene           | 34                    | 1,940         | 1,450,000                         | 5_                         | 842,000,000                          |
| toluene                   | <1                    | <5            | <500                              | 5                          | 247,000                              |
| 1,1,2-trichloroethane     | <1                    | <5            | 5,650                             | 11                         | 1,250,000                            |
| tetrachloroethene         | 1                     | <b>3</b> 4. 5 | <500                              | 5_                         | 3,310,000                            |
| ethylbenzene              | <1                    | <5            | <500                              | 5                          | 221,000                              |
| m,p-xylene                | <2                    | <10           | <1,000                            | 10                         | 775,000                              |
| o-xylene                  | <1                    | <5            | <500                              | 5                          | 239,000                              |
| 1,1,2,2-tetrachloroethane | <1                    | 537           | <250                              | 5                          | <250,000                             |

μg/l = micrograms per kilogram

NYSDEC Guidance Values = Division Technical and Administrative Guidance Memorandum No. 4046 (TAGM 4046):

Determination of Soil Cleanup Objectives and Cleanup levels and addendum (August, 2001).

< = Analyte was not detected at the detection level indicated.

= Analyte detected at a concentration above NYSDEC Standard
NYSDEC standard listed is intended as a groundwater standard and is not directly applicable to the DNAPL.

Due to high detection limits, additional compounds may be present above state standards.



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#### Conclusion

Based on the field observations of this limited and focused investigation, gross solvent contamination was noted in both the soil and groundwater at the subject property. The greatest impact was noted southwest of the site structure, proximate to the historic septic tank. Strong solvent-type odors and staining were noted in this area within test borings BH3 (6-14 ft. bgs), BH4 (4-12 ft. bgs), BH5 (6-12 ft. bgs), BH6 (6-12 ft. bgs), BH7 (2-12 ft. bgs) and BH8 (6-12 ft. bgs; apparent DNAPL was noted within test borings BH5 (8-12 ft. bgs); BH6 (8-12 ft. bgs), and BH8 (4-12 ft. bgs). Apparent DNAPL was also noted within TPMW3 during well development and sample collection. Groundwater impact was also identified on the suspected down-gradient side of the subject structure in TPMW1 and TPMW2. The extent of the impacted soil and groundwater is unknown. The concern posed by this site is elevated due to the proximity of Chautauqua Lake about 600 feet east of the subject property (see Figure 1).

Based on the investigation conducted, LCS concludes that the subject property is not considered acceptable as collateral to M&T Bank.

#### Recommendations

LCS recommends that the property owner contact environmental counsel to determine any reporting obligation to the NYSDEC. Further investigation in recommended prior to implementing remedial action.

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Sincerely,

Douglas B. Reid

VP, Environmental Services

**Environmental Scientist** 

**Attachments** 

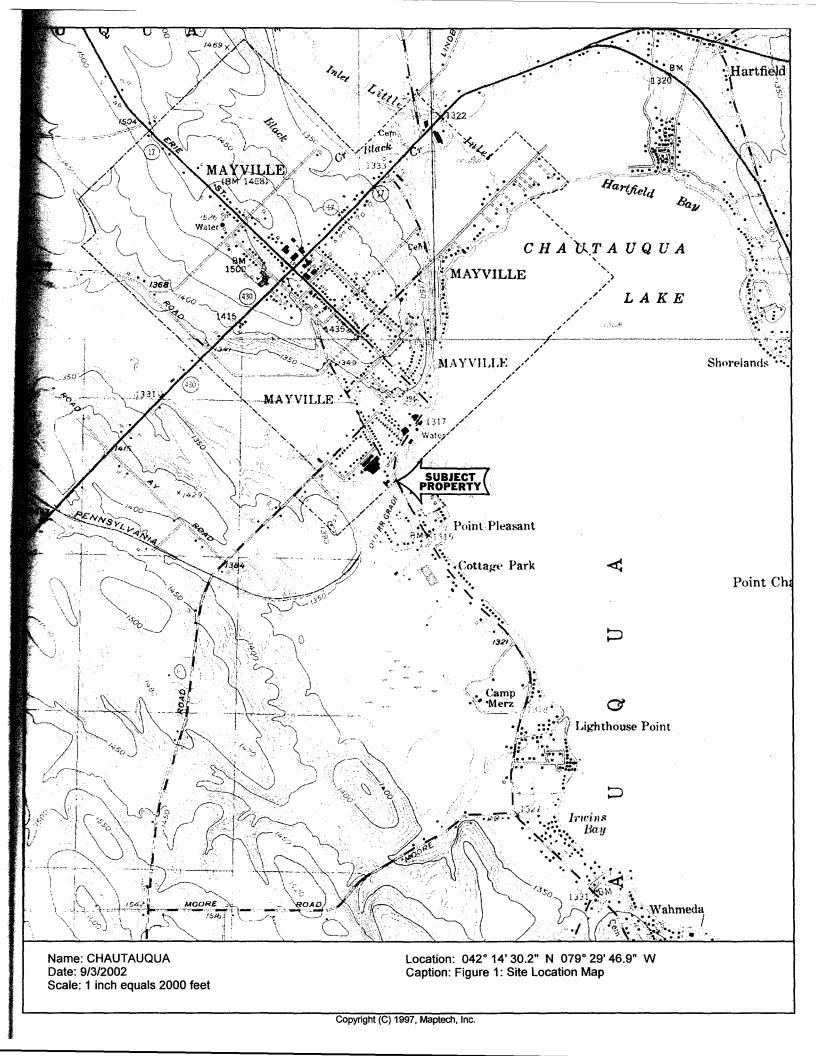
Reviewed by:

Robert J. \$zust∦kowski Chief Operating Officer

Hydrogeologist

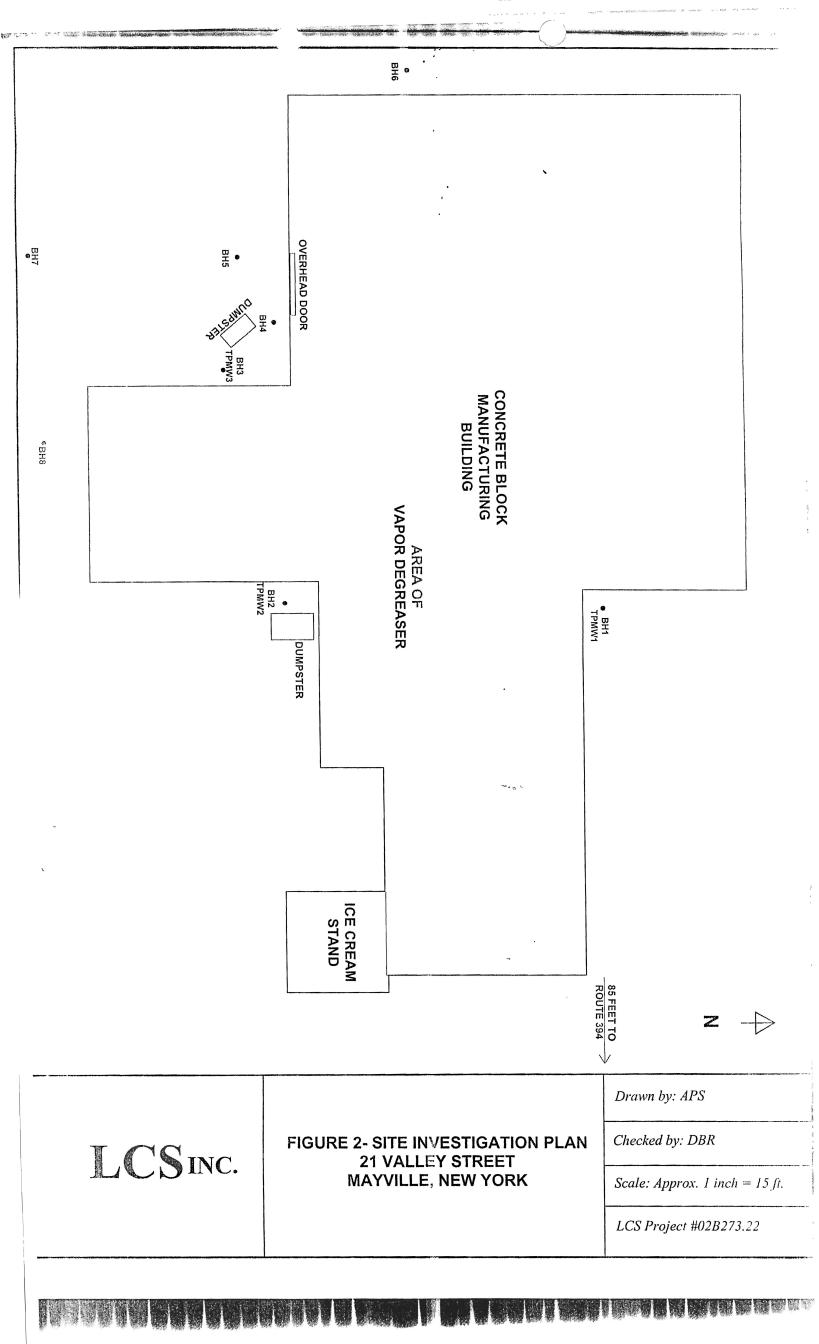


SITE LOCATION MAP





SUBSURFACE INVESTIGATION MAP





|   |                             | CS Ir           | 1c.       |               |          | SUI                  | 3SUR  | FACE                | LO            | G                         |  |
|---|-----------------------------|-----------------|-----------|---------------|----------|----------------------|---|---------------------|---------------|---------------------------|--|
|   | T/ LOCATION                 | ON:             |           | 21 Valley Str | eet May  | ville, New Yor       | k   | PROJECT No          | ).            | 02B273.22                 |  |
|   |                             |                 |           | M&T Ba        | ınk      |                      |   | WELL/BORIN          | IG No.        | BH1                       |  |
|   | ARTED:                      | 8/2             | 3/02      | DATE CON      | /PLETE   | D:8                  | /23/02  | RECORDED            | BY:           | APS                       |  |
|   | WATER D                     | EPTH WE         | IILE DF   | RILLING:      | ~7       | ft. bgs              | AFTER COM   | IPLETION:           |               | NA                        |  |
| Ĺ | R:~7                        | 70F, Over       | cast      | DRILL RIG:    | G        | eoprobe              | DRILLER:  |                     | BMS D         | rilling                   |  |
|   | ZE/TYPE:                    |                 | Macr      | o-core        | _ SAMF   | PLE HAMMER           | R: WEIGHT   | NA _                | FALL _        | NA                        |  |
|   | PID/HNu<br>Reading<br>(ppm) | Depth<br>(Feet) | Type<br>* | Blows/6"      | N        | Recovery<br>(Inches) | Material Classification and Description (Unified Soil Classification System-Visual Manual Method) |                     |               |                           |  |
|   | 14.8                        | 0-2             | U         | _             | -        | 20                   | 0-0.5 ft: Grav  | el (coarse, fine, r | ounded, loos  | e, moist)                 |  |
|   | 0.0                         | 2-4             | U         | -             | -        | 20                   | 0.5-3 ft: Brow  | n sandy gravel (d   | coarse, fine, | rounded, loose, moist)    |  |
|   | 2.8                         | 4-6             | U         | -             | -        | 20                   | 3-11.5 ft: Bro  | wn/gray silty san   | d (fine, medi | um dense, moist to wet)   |  |
|   |                             |                 |           |               |          |                      |   |                     |               | ·                         |  |
|   | 0.0                         | 6-8             | υ         |               |          | 20                   | 11.5-16 ft: Br  | own/gray silty cla  | y (moderate   | to high plasticity, soft, |  |
|   |                             |                 |           |               |          |                      | wet)  |                     |               |                           |  |
|   | 0.0                         | 8-10            | U         | -             | <u> </u> | 20                   |   |                     |               |                           |  |
|   | 0.0                         | 10-12           | Ų         | -             | -        | 20                   |   |                     |               |                           |  |
|   | 0.0                         | 12-14           | Ų ·       | -             | -        | 20                   |   |                     |               |                           |  |
|   | 0.0                         | 14-16           | U         | -             | -        | 20                   |   |                     |               |                           |  |
|   |                             |                 |           |               | <u> </u> |                      |   |                     |               |                           |  |
|   |                             | <b></b>         |           |               |          | <u> </u>             |   |                     |               |                           |  |
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|   |                             |                 |           |               |          |                      | ]   |                     |               |                           |  |
|   |                             |                 |           |               | ļ        |                      |   |                     |               |                           |  |
|   | 1                           |                 |           |               |          |                      |   |                     |               |                           |  |

NA = Not Applicable

Fill to ~3 ft. bgs

ft. bgs = feet below ground surface

\*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

C - CORE

# **E** LCS Inc.

# SUBSURFACE LOG

| C C          | T/ LOCATIO                  | ON:             |            | 21 Valley Str |              | ville, New You       | ·k                 |                           | 02B273.22                        |  |
|--------------|-----------------------------|-----------------|------------|---------------|--------------|----------------------|--------------------|---------------------------|----------------------------------|--|
|              |                             |                 |            | M&T Ba        |              |                      |                    | WELL/BORING No            |                                  |  |
|              | ARTED:                      |                 | 3/02       | <del></del>   |              | D:8                  |                    | RECORDED BY:              | APS                              |  |
|              | WATER D                     |                 |            | <del>-</del>  |              | ft. bgs              |                    |                           | NA                               |  |
| <b>EXH</b> E |                             |                 |            | DRILL RIG:    |              |                      |                    | BMS Drilling              |                                  |  |
| <b>1</b> .51 | ZE/TYPE:                    |                 | Macro      | o-core        | _ SAM        | PLE HAMME            | R: WEIGHT          | <u> </u>                  | L NA                             |  |
|              | PID/HNu<br>Reading<br>(ppm) | Depth<br>(Feet) | Type<br>*  | Blows/6"      | N            | Recovery<br>(Inches) |                    |                           | em-Visual Manual Method)         |  |
|              | 9.2                         | 0-2             | U          | -             | -            | 20                   | 0-0.5 ft: Grav     | el (coarse, fine, rounde  | d, loose, moist)                 |  |
|              | 4.9                         | 2-4             | U          | -             | -            | 20                   | 0.5-3 ft: Brow     | n sandy gravel (coarse    | fine, rounded, loose, moist)     |  |
|              | 8.9                         | 4-6             | U          | _             | _            | 20                   | 3-11.5 ft: Bro     | wn/gray silty sand (fine, | medium dense, moist to wet       |  |
|              | 141                         | 6-8             | U          | -             | -            | 20                   | 11.5-16 ft: Br     | own/gray silty clay (mod  | derate to high plasticity, soft, |  |
|              | 34.7                        | 8-10            | U          | •             |              | 20                   |                    |                           | •                                |  |
|              |                             |                 |            |               |              |                      |                    |                           |                                  |  |
|              | 62.4                        | 10-12           | U          | -             | -            | 20                   |                    |                           |                                  |  |
|              |                             |                 |            |               | ļ            |                      |                    |                           |                                  |  |
|              | 14.4                        | 12-14           | U          | -             |              | 24                   | 1                  |                           |                                  |  |
|              |                             |                 |            |               | <u> </u>     |                      | 4                  |                           |                                  |  |
|              | 8.9                         | 14-16           | U          | <u> </u>      | ļ            | 24                   | 4                  |                           |                                  |  |
|              |                             |                 |            |               |              |                      | -                  |                           |                                  |  |
|              |                             |                 |            |               | <del> </del> |                      | 1                  |                           |                                  |  |
|              |                             |                 |            |               |              |                      | <del> </del>       |                           |                                  |  |
|              |                             |                 |            | <u> </u>      |              |                      | 7                  |                           |                                  |  |
|              | ·                           |                 |            |               |              |                      | 7                  |                           |                                  |  |
|              |                             |                 |            | . <del></del> | <u> </u>     |                      | 7                  |                           |                                  |  |
|              |                             |                 |            |               | <u> </u>     |                      |                    |                           |                                  |  |
|              |                             |                 |            |               | <b> </b>     |                      | 7                  |                           |                                  |  |
| ites         | NA = Not Ap                 |                 | ound surfa | ace           |              |                      | Fill to ~3 ft. bgs | · ·                       |                                  |  |

# LCS Inc.

# SUBSURFACE LOG

| I/LOCAT                     | ON:                        |                       | 21 Valley Stre | et May            | ville, New Yo        | rk                 | PROJECT No.                                       | 02B273.22                                  |  |
|-----------------------------|----------------------------|-----------------------|----------------|-------------------|----------------------|--------------------|---|--|--|
|                             |                            |                       | M&T Ba         | nk                |                      |                    | WELL/BORING No.                                   | BH3  |  |
| TARTED:                     | 8/2                        | 3/02                  | DATE COM       | 1PLETE            | D:8                  | 8/23/02            | RECORDED BY:                                      | APS  |  |
| WATER [                     | DEPTH W                    | HILE DR               | ILLING:        | ~7                | ft. bgs              | AFTER COM          | IPLETION:   | NA NA                                      |  |
| R:                          | 70F, Over                  | cast                  | DRILL RIG:     | Geoprobe DRILLER: |                      |                    | BMS Drilling                                      |  |  |
| <b>УЕ</b> ЛҮРЕ:             |                            | Macr                  | o-core         | SAMI              | PLE HAMME            | R: WEIGHT          | NAFAL   | L NA                                       |  |
| PID/HNu<br>Reading<br>(ppm) | Depth<br>(Feet)            | Type<br>*             | Blows/6"       | N                 | Recovery<br>(Inches) | (Unified           | Material Classification Soil Classification Syste | and Description<br>m-Visual Manual Method) |  |
| 216                         | 0-2                        | υ                     | -              | -                 | 18                   | 0-0.5 ft: Grav     | el (coarse, fine, rounded                         | , loose, moist)                            |  |
|                             |                            | ļ                     |                |                   |                      |                    |   |  |  |
| 511                         | 2-4                        | U                     | -              | <del>-</del>      | 18                   | 0.5-3 ft: Brow     | n sandy gravel (coarse,                           | fine, rounded, loose, moist)               |  |
|                             | <del> </del>               | ļ                     |                |                   |                      | 4                  |   |  |  |
| >2,000                      | 4-6                        | U                     | . •            | <u>-</u>          | 20                   | 3-11.5 ft: Bro     | wn/gray silty sand (fine,                         | medium dense, moist to wet)                |  |
| >2.000                      | 60                         |                       |                |                   | 20                   | 44.5.46.5b. Da     |   | onete to high algorithm and                |  |
| >2,000                      | 6-8                        | U                     | -              | <u> </u>          | 20                   | wet)               | own/gray silty clay (mod                          | erate to high plasticity, soft,            |  |
| >2,000                      | 8-10                       | U                     | _              | _                 | 20                   | - Wet)             |   |  |  |
|                             |                            |                       |                |                   |                      |                    |   |  |  |
| >2,000                      | 10-12                      | U                     | -              | -                 | 20                   |                    |   |  |  |
|                             | ļ                          | ļ                     |                |                   |                      | 4                  |   |  |  |
| >2,000                      | 12-14                      | U                     | -              | -                 | 24                   | 4                  |   |  |  |
| -                           | ļ                          | ļ                     |                |                   |                      |                    |   |  |  |
| >2,000                      | 14-16                      | U                     | -              | -                 | 24                   | -                  |   |  |  |
|                             | <del> </del>               |                       |                |                   |                      | -                  |   |  |  |
| +                           | <del> </del>               | ļ                     |                |                   |                      | 1                  |   |  |  |
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|                             |                            |                       |                |                   |                      |                    |   |  |  |
|                             |                            |                       |                |                   |                      | ]                  |   |  |  |
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| <u></u>                     |                            | <u></u>               |                |                   | <u> </u>             | <u> </u>           |   |  |  |
| NA = Not A                  | opplicable<br>et below arc | nund eu <del>rf</del> | ace            |                   |                      | Fill to ~3.5 ft. b | gs<br>-type odors at ∼6-14 ft. b                  | ne   |  |

Solvent-type staining and product at ~6-14 ft. bgs

\*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

C - CORE

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|---|---|-----|-------|--|
| Activities of the contract of |   | ( ) | HIIC. |  |
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| A            | <del></del>   |  |  |               |                       |                |                    |                      |                 |                               |
|--------------|---------------|--|--|---------------|-----------------------|----------------|--------------------|----------------------|-----------------|-------------------------------|
| <b>O</b> JE( | T/ LOCATION   | ON:  |  | 21 Valley Str | eet May               | ville, New You | ·k                 | PROJECT No           | D               | 02B273.22                     |
| ENT:         |               |  |  | M&T Ba        | nk                    |                |                    | _ WELL/BORIN         | IG No.          | BH4                           |
| TE S         | TARTED:       | 8/2  | 23/02  | DATE CON      |                       | D:8            |                    | RECORDED             | BY:             | APS                           |
| OUN          | DWATER D      | EPTH WI  | HILE DR  | ILLING:       | ~7                    | ft. bgs        | AFTER COM          | MPLETION:            |                 | NA                            |
| ATH          | ER:~          | 70F, Over  | cast   | DRILL RIG:    | Geoprobe DRILLER:     |                |                    | BMS Drilling         |                 |                               |
| LL S         | IZE/TYPE:     |  | Macr   | o-core        | SAMPLE HAMMER: WEIGHT |                |                    | NA                   | _ FALL _        | NA NA                         |
|              | 1             | <u> </u>   | T  |               |                       |                | T                  |                      |                 |                               |
|              | PID/HNu       | Depth  | Туре   | Blows/6"      | N                     | Recovery       |                    | Material Classi      | fication and D  | escription                    |
| 5            | Reading       | (Feet)   | *  | Biows/0       | 1                     | (Inches)       | (Unified           |                      |                 | ual Manual Method)            |
| iu.          | (ppm)         | <u> </u>   | ļ  |               |                       | ()             | -                  |                      |                 |                               |
| 1            | 75.1          | 0-2  | U  | -             | -                     | 12             | 0-0.5 ft: Grav     | el (coarse, fine, r  | ounded, loos    | e, moist)                     |
|              |               |  |  |               |                       |                |                    |                      |                 |                               |
| 2            | 123           | 2-4  | U  | -             | -                     | 12             | 0.5-3 ft: Brov     | vn sandy gravel (    | coarse, fine, r | ounded, loose, moist)         |
| <u>.</u>     |               | <del>                                     </del> | <del> </del>                                     |               |                       |                | -                  |                      | ·               |                               |
|              | 78.0          | 4-6  | U  | -             | <u> </u>              | 20             | ] 3-11 π: Brow     | n/gray silty sand    | (fine, medium   | dense, moist to wet)          |
|              | >2,000        | 6-8  | U  |               |                       | 20             | 11 12 ft: Bro      | wn/Grov silty olov   | (moderate te    | high plasticity, soft, wet)   |
|              | >2,000        | 0-8  | 0  | -             |                       | 20             | 11-12 11. 110      | Will Gray Silty Clay | (IIIodelale (C  | rtigit plasticity, soit, wet) |
| 5            | >2,000        | 8-10   | U  | _             |                       | 24             | 1                  |                      |                 |                               |
|              |               |  | <del> </del>                                     |               |                       |                |                    |                      |                 |                               |
|              | >2,000        | 10-12  | U  | -             | -                     | 24             | 1                  |                      |                 |                               |
|              |               |  |  |               |                       |                |                    |                      |                 |                               |
|              |               |  |  |               |                       |                |                    |                      |                 |                               |
|              |               | <u> </u>   |  |               |                       |                | 1                  |                      |                 |                               |
|              |               |  | ļ  |               | ļ                     |                |                    |                      |                 |                               |
| 2            |               |  | <del> </del>                                     |               |                       |                | 4                  |                      |                 |                               |
| en .         |               |  |  |               | <del> </del>          |                | -                  |                      |                 |                               |
|              |               |  | <del> </del>                                     |               |                       |                | 4                  |                      |                 |                               |
|              |               |  | <del>                                     </del> |               | <u> </u>              |                | -                  |                      |                 |                               |
|              |               |  | <del> </del>                                     |               |                       |                |                    |                      |                 |                               |
|              |               |  |  |               |                       |                | _                  |                      |                 |                               |
|              |               |  | <del>                                     </del> |               |                       |                | -                  |                      |                 |                               |
|              |               |  | <del>                                     </del> |               | <del> </del>          |                |                    |                      |                 |                               |
|              |               |  | <del>                                     </del> |               |                       |                | 1                  |                      |                 |                               |
|              |               |  | 1  |               |                       |                |                    |                      |                 |                               |
| ŧs           | NA = Not A    | pplicable  |  |               | ·                     | <del>*</del> * | Fill to ~3.5 ft. b | ogs                  |                 |                               |
|              | ft. bgs = fee |  | ound surf  | ace           | ,                     |                |                    | -type odors at ~4    | -12 ft. bgs     |                               |
|              |               |  |  |               |                       |                | Solvent-type s     | taining at ~4-12 f   | bas             |                               |
|              |               |  |  |               |                       |                |                    |                      |                 |                               |
|              |               | *SS -  | SPLIT-SI   | POON SAMPLE   | U-L                   | INDISTURBED    | TUBE P-            | PISTON TUBE          | C - CORE        |                               |

| Marie Company (Company)<br>Marie Company (Company)<br>Marie Company (Company)<br>Marie Company (Company) | T | CC | Inc |   |
|--|---|----|-----|---|
| engage manage and page   |   |    |     | • |

\*SS - SPLIT-SPOON SAMPLE

# SUBSURFACE LOG

Slight solvent-type staining and product at ~8-12 ft. bgs

C - CORE

P - PISTON TUBE

| EC  | T/ LOCATIO           | ON:          | ·         | 21 Valley Stre | et May                  | ville, New Yor | k                  | PROJECT No.                           | 02B273.22                               |  |
|-----|----------------------|--------------|-----------|----------------|-------------------------|----------------|--------------------|---------------------------------------|---|--|
| NT: |                      |              |           | M&T Bai        | nk                      |                | ,                  | WELL/BORING                           | No. <u>BH5</u>                          |  |
| ST  | ARTED:               | 8/2          | 3/02      | DATE COM       | PLETE                   | D:8            | 3/23/02            | RECORDED BY:                          | : APS                                   |  |
| H   | <b>W</b> ATER D      | EPTH WH      | IILE DR   | ILLING:        | ~8                      | ft. bgs        | AFTER COM          | PLETION:                              | NA                                      |  |
| ÌΈ  | R:~7                 | 0F, Over     | cast      | DRILL RIG:     | Geoprobe DRILLER:       |                |                    | BMS Drilling                          |   |  |
| SI  | <b>ZE</b> /TYPE:     |              | Macro     | o-core         | _ SAMPLE HAMMER: WEIGHT |                |                    | NA F                                  | ALL NA                                  |  |
|     |                      |              |           |                | <del>"</del>            |                | 1                  |                                       |   |  |
|     | PID/HNu              | Depth        | Туре      | Blows/6"       | N                       | Recovery       |                    | Material Classificati                 | ion and Description                     |  |
|     | Reading              | (Feet)       | *         | 51011370       | . •                     | (Inches)       | (Unified           |                                       | ystem-Visual Manual Method)             |  |
|     | (ppm)                |              |           |                |                         | (              |                    | · · · · · · · · · · · · · · · · · · · |   |  |
|     | 0.1                  | 0-2          | U         | -              |                         | 12             | 0-0.5 ft: Grave    | el (coarse, fine, round               | ded, loose, moist)                      |  |
|     |                      |              |           |                |                         |                | -                  |                                       |   |  |
|     | 11.6                 | 2-4          | U         | -              | -                       | 12             | 1                  | n/black sandy gravel                  | (coarse, fine, loose, rounded,          |  |
|     | 128                  | 4-6          | U         | -              | -                       | 24             | moist)             |                                       |   |  |
|     | 120                  | 4-0          |           |                |                         | 2              | 3-10 ft: Brown     | n/grav siltv sand (fine               | e, medium dense, moist to wet)          |  |
|     | >2,000               | 6-8          | U         | _              | -                       | 24             |                    | g,, (                                 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  |
|     |                      |              |           |                |                         |                | 10-12 ft: Brov     | vn/gray silty clay (sof               | ft, high plasticity, wet)               |  |
|     | >2,000               | 8-10         | U         | -              |                         | 24             |                    |                                       |   |  |
|     |                      |              |           |                |                         |                |                    |                                       |   |  |
|     | >2,000               | 10-12        | U         | <u>.</u>       | <u>-</u>                | 24             | _                  |                                       |   |  |
|     |                      |              |           |                |                         |                | -                  |                                       |   |  |
| 4   |                      |              | <u> </u>  |                |                         |                |                    |                                       |   |  |
|     | -                    |              |           |                |                         |                | -                  |                                       |   |  |
|     | <u> </u>             |              |           |                |                         |                | -                  |                                       |   |  |
|     |                      |              |           |                |                         |                | _                  |                                       |   |  |
|     |                      |              |           |                |                         |                | 1                  |                                       |   |  |
|     |                      |              |           |                |                         |                | -                  |                                       |   |  |
|     |                      |              |           |                |                         |                | 1                  |                                       |   |  |
|     |                      |              |           |                |                         |                |                    |                                       |   |  |
|     |                      |              |           |                |                         |                |                    |                                       |   |  |
|     | A.W                  |              |           |                |                         |                |                    |                                       |   |  |
|     |                      |              | ļ         |                |                         |                |                    |                                       |   |  |
|     |                      |              |           |                |                         |                | _                  |                                       |   |  |
|     |                      |              | <u></u>   |                |                         |                |                    |                                       |   |  |
|     | NA = Not A           | pplicable    |           |                |                         |                | Fill to ~ 3.25 ft. | bgs                                   |   |  |
|     | <b>a. bg</b> s = fee | et below gro | ound surf | ace            |                         |                | Strong solvent-    | type odors at ~6-12                   | ft. bgs                                 |  |

U - UNDISTURBED TUBE

| ECT/ LO       | CATION:     |              |           | 21 Valley Stre | et May           | ville, New Yor                               | ·k                 | PROJECT No.            |               | 02B273.22             |
|---------------|-------------|--------------|-----------|----------------|------------------|--|--------------------|------------------------|---------------|-----------------------|
| ιτ:           |             |              |           | M&T Ba         | nk               |  |                    | WELL/BORING            | No            | BH6                   |
| STARTE        | :D:         | 8/23         | 3/02      | DATE COM       | MPLETED: 8/23/02 |  |                    | RECORDED BY            | <b>/</b> :    | APS                   |
| <b>ND</b> WAT | ER DEPT     | нwн          | ILE DR    | ILLING:        | ~7.              | 5 ft. bgs                                    | AFTER COM          | MPLETION:              |               | NA                    |
| HER:          | ~70F,       | Overd        | ast       | DRILL RIG:     | G                | eoprobe                                      | DRILLER:           | 4                      | BMS Dr        | illing                |
| SIZE/TY       | PE:         |              | Macro     | o-core         | SAM              | PLE HAMME                                    | R: WEIGHT          | NA                     | FALL _        | NA NA                 |
|               |             | Ī            |           |                |                  |  | ·                  |                        |               |                       |
| PID/H<br>Read | ding (F     | epth<br>eet) | Type<br>* | Blows/6"       | N                | Recovery<br>(Inches)                         | (Unified           | Material Classifica    |               |                       |
| 5.9           | 9 0         | )-4          | U         | -              | •                | 18   | 0-0.5 ft: Grav     | el (coarse, fine, rou  | nded, loose   | e, moist)             |
|               |             |              |           |                |                  |  |                    |                        |               |                       |
| 51            | 1 4         | -6           | U         | -              | -                | 20   | 0.5-3 ft: Brow     | n/black sandy grave    | el (coarse,   | fine, loose, rounded, |
|               |             |              |           |                |                  |  | moist)             |                        |               |                       |
| >2,0          | 000 6       | i-8          | U         | . =            | -                | 20   |                    |                        |               |                       |
|               |             |              |           |                |                  |  | 3-10 ft: Brow      | n/gray silty sand (fin | e, medium     | dense, moist to wet)  |
| >2,0          | 8-          | -10          | U         | -              | •                | 24   | -                  |                        |               |                       |
| >2,0          | 100 10      | -12          | U         |                |                  | 24   | 10-12 ft: Brov     | wn/gray silty clay (so | oft, high pla | sticity, wet)         |
| >2,0          | 100         | 1-12         | <u> </u>  | -              | -                | 24   | -                  |                        |               |                       |
|               |             |              |           |                |                  |  |                    |                        |               |                       |
|               |             | •            |           | <del></del>    |                  |  |                    |                        |               |                       |
|               |             |              |           |                |                  |  |                    |                        |               |                       |
|               |             |              |           |                |                  |  |                    |                        |               |                       |
|               |             |              |           |                |                  |  |                    |                        |               |                       |
|               |             |              |           |                |                  |  |                    |                        |               |                       |
|               |             |              |           |                |                  |  | 4                  |                        |               |                       |
|               |             |              |           |                |                  |  | -                  |                        |               |                       |
|               |             |              |           |                |                  |  | -                  |                        |               |                       |
|               | _           |              |           |                |                  |  | 1                  |                        |               |                       |
|               |             |              |           |                |                  | <u>                                     </u> | ┪                  |                        |               |                       |
|               |             |              |           |                |                  |  | -                  |                        |               |                       |
|               |             |              |           |                |                  |  | 1                  |                        |               |                       |
|               |             |              |           |                |                  |  | 1                  |                        |               |                       |
|               |             |              |           |                |                  |  | 1                  |                        |               |                       |
|               | Not Applica | able         |           |                | <u> </u>         |  | Fill to ~3 ft. bgs |                        | <del></del>   |                       |
|               | = feet belo |              | und surfa | ace            |                  |  | -                  | -type odor at ~6-12    | ft. bgs       |                       |
|               |             | -            |           |                |                  |  | -                  | ype staining and pro   | _             | .12 ft has            |
|               |             |              |           |                |                  |  |                    |                        |               | - 12 II. Dgo          |
|               | *           | 9-22         | DI IT-SD  | OON SAMPLE     | 11-11            | MOISTLIBBER                                  | TIRE P.            | PISTON TUBE (          | CORE          |                       |

| 2002/00/00/00/00<br>   | T   | CS | In | C |
|--|-----|----|----|---|
| presente de 2000 de 20 | 1 4 |    |    |   |

| ROJEC         | T/ LOCATIO                  | ON:             |           | 21 Valley Str | eet Mayvi        | lle, New Yo          | 'k                 | PROJECT No.            | 02B273.22   |
|---------------|-----------------------------|-----------------|-----------|---------------|------------------|----------------------|--------------------|------------------------|---|
| LIENT:        |                             |                 |           | M&T Ba        | ınk              |                      |                    | WELL/BORING            | No. <u>BH7</u>                                      |
| ATE ST        | ARTED:                      | 8/2             | 3/02      | _ DATE CON    | /PLETED          | ):8                  | 3/23/02            | RECORDED BY            | : APS   |
| ROUN          | WATER D                     | EPTH WH         | IILE DR   | ILLING:       | ~81              | ft. bgs              | AFTER COM          | IPLETION:              | NA NA   |
| <b>E</b> ATHE | :R:~7                       | 0F, Over        | cast      | DRILL RIG:    | Ge               | oprobe               | DRILLER:           |                        | BMS Drilling  |
| RILL SI       | ZE/TYPE:                    |                 | Macro     | o-core        | _ SAMP           | LE HAMME             | R: WEIGHT          | NAI                    | FALL NA   |
|               |                             | <del></del>     |           |               |                  |                      |                    |                        |   |
| ample<br>No.  | PID/HNu<br>Reading<br>(ppm) | Depth<br>(Feet) | Type<br>* | Blows/6"      | N                | Recovery<br>(Inches) | (Unified           |                        | tion and Description<br>ystem-Visual Manual Method) |
| 1             | 2.9                         | 0-2             | U         |               | -                | 18                   | 0-0.5 ft: Grav     | el (coarse, fine, loos | e, rounded, moist)                                  |
| 2             | 1.1                         | 2-4             | U         | -             | -                | 18                   | 0.5-3.75 ft: B     | rown/black gravel (c   | oarse, fine, loose, sub angular,                    |
| 3             | 218                         | 4-6             | U         | <u>-</u>      | -                | 20                   | -                  |                        |   |
|               | 754                         |                 |           | <u></u>       | }                |                      | 3.75-10 ft: Bi     | rown/gray silty sand   | (fine, medium dense, moist to wet)                  |
| 4             | 751                         | 6-8             | U         | <u>-</u>      | <del>  -  </del> | 20                   | 10-12 ft: Bro      | wn/gray eilty clay (so | oft, high plasticity, wet)                          |
| 5             | 362                         | 8-10            | U         | •             | <del>  _  </del> | 24                   | 10-12 10. 510      | Wingley Sity Clay (Sc  | nt, riigit plasticity, wet/                         |
|               |                             |                 |           |               |                  |                      |                    |                        |   |
|               | 703                         | 10-12           | U         | -             | -                | 24                   | -                  |                        | •   |
|               |                             |                 |           |               |                  |                      | -<br>-<br>-        |                        |   |
|               |                             |                 |           | 17-1          |                  |                      | -<br>-<br>-        |                        |   |
|               |                             |                 |           |               |                  |                      | <del> </del><br> - |                        |   |
|               |                             | l               |           |               | <del>  </del>    |                      | 1                  |                        |   |
|               | NA = Not A<br>1. bgs = fee  | et below gro    |           | ace           | 11 110           | NDISTURBE            |                    | -type staining and or  | dors at ~2-12 ft. bgs                               |

| enumerous decrees<br>white-ton-127/2005<br>and will have projection | T | CC | T | _ |
|---|---|----|---|---|
| mental and a rest of the companies                                  |   | _  |   |   |
| water properties, years   |   | 1  |   |   |
| 3000 XXXXXXXXX  |   |    |   | _ |

C - CORE

P - PISTON TUBE

| <b>KOJ</b> EC | T/ LOCATIO                      | ON:             |  | _21 Valley Stre | eet May        | ville, New Yor       | k                 | _ PROJECT No.          |                | 02B273.22               |
|---------------|---------------------------------|-----------------|--|-----------------|----------------|----------------------|-------------------|------------------------|----------------|-------------------------|
| ENT:          | ENT: M&T Bank                   |                 |  | WELL/BORING     | 3 No.          | BH8                  |                   |                        |                |                         |
| ATE ST        |                                 |                 |  |                 |                |                      |                   | _ RECORDED B           |                | į.                      |
| OUNI          | DWATER D                        | EPTH W          | HILE DR  | ILLING:         | ~8             | ft. bgs              | AFTER CO          | MPLETION:              |                | NA                      |
| EATHE         | ER:~7                           | 70F, Over       | cast   | DRILL RIG:      | G              | eoprobe              | DRILLER:          |                        | BMS Dr         | illing                  |
| LL SI         | ZE/TYPE:                        |                 | Macro  | o-core          | SAME           | PLE HAMMER           | R: WEIGHT         | NA                     | FALL _         | NA                      |
|               |                                 | T               |  |                 |                |                      | <del></del>       |                        |                |                         |
| sple          | PID/HNu                         | D               | _  | D1 (O)          |                | D                    |                   | Material Classific     |                |                         |
| <b>5</b> .    | Reading                         | Depth<br>(Feet) | Type<br>*  | Blows/6"        | N              | Recovery<br>(Inches) | // Inified        |                        |                | ual Manual Method)      |
|               | (ppm)                           |                 |  |                 |                | (mones)              | (Online)          |                        |                |                         |
| 1             | 882                             | 0-2             | U  |                 | -              | 18                   | 0-0.5 ft: Gra     | vel (coarse, fine, lo  | ose, rounded   | d, moist)               |
| 40.5          |                                 |                 | -  |                 |                |                      |                   |                        |                |                         |
| 2             | >2,000                          | 2-4             | U  | <u> </u>        | -              | 18                   | 1                 | Brown/black gravel     | (coarse, fine  | , loose, sub angular,   |
|               |                                 |                 |  |                 |                |                      | moist)            |                        |                |                         |
|               | >2,000                          | 4-6             | U  | <u> </u>        | <del>-</del>   | 24                   | 0.75 10 5         |                        | -1 (8)         | (                       |
|               | >2,000                          | 6-8             | U  |                 | <del> </del>   | 24                   | ] 3.75-10 π: E    | srown/gray slity san   | a (iine, meai  | um dense, moist to wet) |
|               | >2,000                          | 0-0             | -  |                 | <del>-</del> - |                      | 10-12 ft: Bro     | own/gray silty clay (  | soft high pla  | esticity, wet)          |
| T.            | >2,000                          | 8-10            | U  | -               | _              | 24                   | 10.12.11. 510     | owning any only olay ( | oon, mgn pro   | ionolly wall            |
|               |                                 |                 |  |                 | 1              |                      | 1                 |                        |                |                         |
|               | >2,000                          | 10-12           | U  | •               | _              | 24                   | 1                 |                        |                | l                       |
|               |                                 |                 |  |                 |                |                      |                   |                        |                |                         |
|               |                                 |                 |  |                 |                |                      |                   |                        |                |                         |
|               |                                 |                 |  |                 | ļ              |                      | 1                 |                        |                |                         |
|               |                                 |                 | ļ  |                 | <u> </u>       |                      | _                 |                        |                |                         |
|               |                                 |                 | ļ  |                 | <u> </u>       | ļ                    | 4                 |                        |                |                         |
|               |                                 |                 | <del> </del>                                     |                 | <b></b>        |                      | 4                 |                        |                |                         |
|               |                                 |                 |  |                 | <del> </del>   |                      | 4                 |                        |                |                         |
|               |                                 | <del> </del>    |  |                 | <del> </del>   |                      | 4                 |                        |                |                         |
|               |                                 |                 | <del> </del>                                     |                 | <del> </del> - |                      | 1                 |                        |                |                         |
|               |                                 | <del> </del>    | -  |                 | <del> </del>   | <del> </del>         | 1                 |                        |                | •                       |
|               |                                 | <b></b>         | <del>                                     </del> |                 |                | <del> </del>         | 1                 |                        |                |                         |
|               |                                 |                 |  | <del></del>     | <del> </del>   | <b>†</b>             | 1                 |                        |                |                         |
|               |                                 | <u> </u>        |  |                 |                | t                    | 7                 |                        |                |                         |
|               |                                 |                 |  |                 |                | <del> </del>         | 1                 |                        |                |                         |
|               | NA = Not A                      | pplicable       |  |                 |                |                      | Fill to ~3 ft. bo | gs                     |                |                         |
|               | ft. bgs = fee                   |                 | ound surf  | ace             |                |                      |                   | it-type odors at ~6-   | 12 ft. bgs     |                         |
|               | a. bgo 1600 below ground bunded |                 |  |                 |                |                      | Solvent-type      | staining and produc    | rt at ~4-12 ft | has                     |

U - UNDISTURBED TUBE

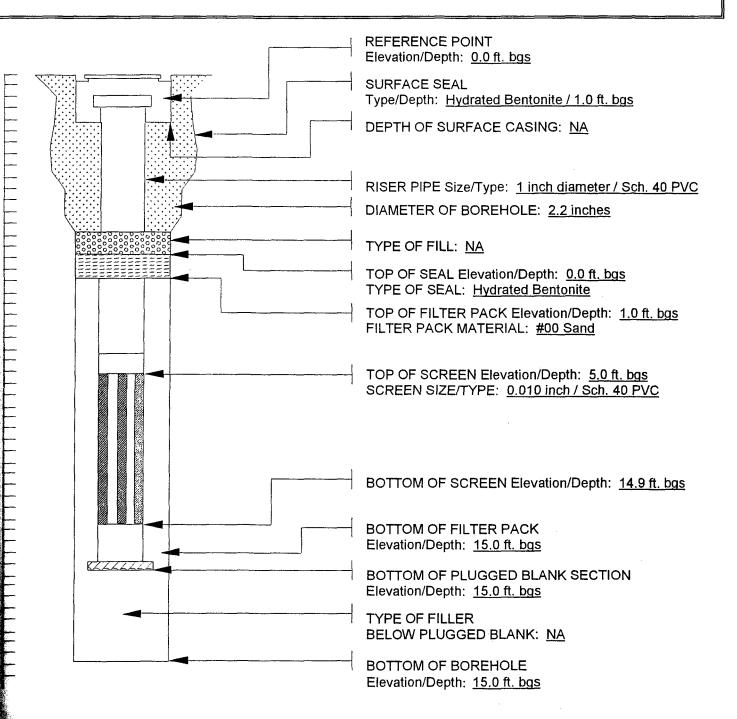
\*SS - SPLIT-SPOON SAMPLE



WELL CONSTRUCTION DETAILS

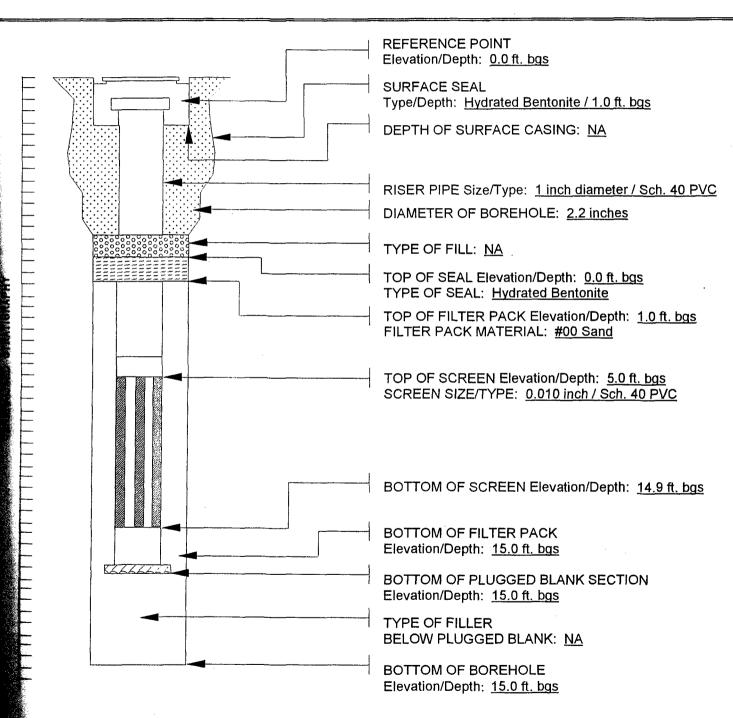
# LCS, Inc. WELL CONSTRUCTION DETAIL

| PROJECT/LOCATION: | 21 Valley Street, Mayville, N | lew York F     | PROJECT No. | 02B273.22 |  |
|-------------------|-------------------------------|----------------|-------------|-----------|--|
| CLIENT:           | M&T Bank                      |                | WELL No.    | TPMW1     |  |
| DATE COMPLETED:   | 8/23/02                       | SUPERVISED BY: |             | APS       |  |



## LCS, Inc. WELL CONSTRUCTION DETAIL

| PROJECT/LOCATION: | 21 Valley Street, Mayville, N | lew York I     | PROJECT No. | 02B273.22 |
|-------------------|-------------------------------|----------------|-------------|-----------|
| CLIENT:           | M&T Bank                      |                | WELL No.    | TPMW2     |
| DATE COMPLETED:   | 8/23/02                       | SUPERVISED BY: |             | APS       |

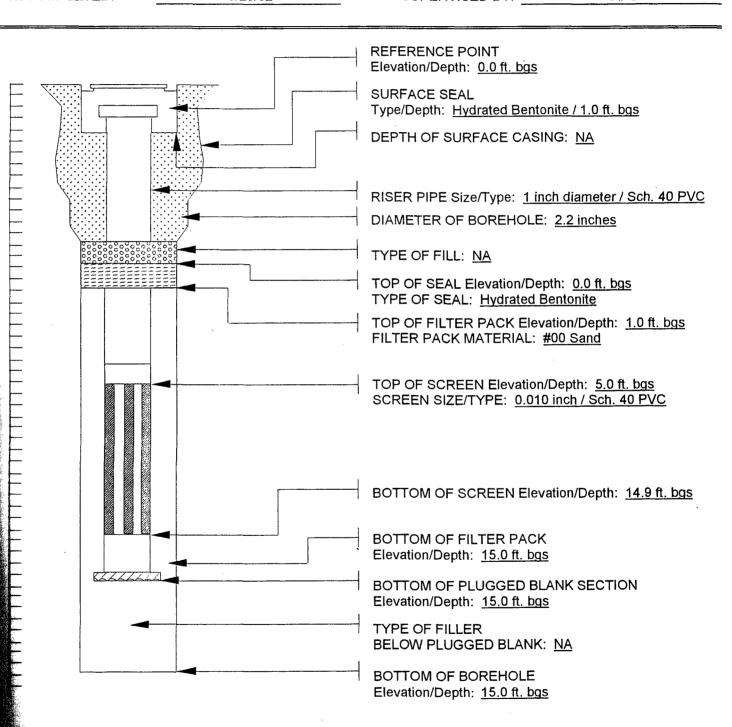


NA = Not applicable

ft. bgs = feet below ground surface

# LCS, Inc. WELL CONSTRUCTION DETAIL

| PROJECT/LOCATION: | 21 Valley Street, Mayville | , New York    | PROJECT No. | 02B273.22 |
|-------------------|----------------------------|---------------|-------------|-----------|
| CLIENT:           | M&T Bank                   |               | WELL No.    | TPMW3     |
| DATE COMPLETED:   | 8/23/02                    | SUPERVISED BY | ·           | APS       |



NA = Not applicable

ft. bgs = feet below ground surface



**ANALYTICAL RESULTS** 

### WASTE STREAM TECHNOLOGY, INC.

302 Grote Street Buffalo, NY 14207 (716) 876-5290

### **Analytical Data Report**

Report Date: 09/09/02 Group Number: 2021-2002

Prepared For: Mr. Doug Reid Lender Consulting Services, Inc. PO Box 406 Buffalo, NY 14205 FAX: 716-845-6164

Site: 21 Valley St. Mayville

**Analytical Parameters** 8260 TCL

**Analytical Services Number of Samples** 

Turnaround Time

026273.22

Standard

Report Released By:

Brian Schepart, Ph.D. Laboratory Director

**ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS** NYSDOH ELAP #11179 **NJDEPE #73977** 

Page 1 of 17



302 Grote Street Buffalo, NY 14207 (716) 876-5290

### **Analytical Data Report**

Group Number: 2021-2002

Site: 21 Valley St. Mayville

### Field and Laboratory Information

| WST ID  | Client ID   | Matrix  | Date Sampled | <b>Date Received</b> | Time  |
|---------|-------------|---------|--------------|----------------------|-------|
| WT09345 | BH3 8-10    | Soil    | 08/23/02     | 08/26/02             | 13:50 |
| WT09346 | BH4 8-10    | Soil    | 08/23/02     | 08/26/02             | 13:50 |
| WT09347 | BH2 6-8     | Soil    | 08/23/02     | 08/26/02             | 13:50 |
| WT09348 | BH6 8-10    | Soil    | 08/23/02     | 08/26/02             | 13:50 |
| WT09349 | BH8 8-10    | Soil    | 08/23/02     | 08/26/02             | 13:50 |
| WT09350 | TPMW1       | Aqueous | 08/23/02     | 08/26/02             | 13:50 |
| WT09351 | TPMW2       | Aqueous | 08/25/02     | 08/26/02             | 13:50 |
| WT09352 | TPMW3       | Aqueous | 08/25/02     | 08/26/02             | 13:50 |
| WT09353 | TPMW3 DNAPL | Oil     | 08/25/02     | 08/26/02             | 13:50 |

#### **METHODOLOGIES**

The specific methodologies employed in obtaining the analytical data reported are indicated on each of the result forms. The method numbers shown refer to the following U.S. Environmental Protection Agency Reference:

Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020, March 1979, Revised 1983, U.S. Environmental Monitoring and Support Laboratory, Cincinnati, Ohio 45268.

Federal Register, 40 CFR Part 136: Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act. Revised July 1992.

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Third Edition, Revised December 1996, U.S. EPA SW-846.

Annual Book of ASTM Standards, Volume II. ASTM, 100 Harbor Drive, West Conshohocken, PA 19428-2959.

Standard Methods for the Examination of Water and Wastewater. (20th Edition). American Public Health Association, 1105 18th Street, NW, Washington, D.C. 20036.

#### **DETECTION LIMIT DEFINITIONS**

MDL = Method Detection Limit. When reported, the MDL is the minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero.

MQL = Method quantitation Limit. The MQL is the minimum concentration that can be reliably reported. The MQL is equal to the concentration of the lowest standard used for the initial calibration of the instrument.

Reporting Limit = A reporting limit is the minimum concentration that can be measured and reported for analyses where initial calibration is not applicable. The reporting limit is based on the specifics of the analysis procedure.



#### **ORGANIC DATA QUALIFIERS**

- U Indicates compound was analyzed for but not detected at the stated MQL or Reporting Limit. If the MDL has been reported, U indicates that the compound was not detected at the MDL.
- J Indicates an estimated value. This flag is used to qualify the following: when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed; a compound is detected in the sample but the result is less than the method quantitation limit but greater than the statistically calculated laboratory method detection limit; the result for a compound is estimated due to the analysis of a sample beyond the USEPA defined holding time; the result for a compound is estimated due to a quality control sample result that is outside the laboratory quality control recovery limits.
- **C** This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- **B** This flag is used when the analyte is found in the associated blank as well as the sample.
- This flag identifies all compounds whose concentrations exceed the calibration range of the GC/MS instrument of that specific analysis.
- **D** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- **G** Matrix spike recovery is greater than the expected upper limit of analytical performance.
- Matrix spike recovery is less than the expected lower limit of analytical performance.
- # Indicates that a surrogate recovery was found to be outside the expected limits of analytical performance.
- **\$ -** Indicates that the surrogate compound was diluted out. The sample had to be diluted to obtain analytical results and a recovery could not be calculated.
- (%) Indicates that the compound is a surrogate and that the value reported for this compound is in percent recovery. The quality control recovery limits are indicated in the detection limit or QC limits column.



#### NOTICE TO CLIENTS

RE: Thermal Preservation of Samples

The New York State Department of Health ELAP requires that the thermal preservation of samples be checked at the time of receipt. If the temperature of the samples is not within the required  $4^{\circ}$ C  $\pm 2^{\circ}$ C, the temperature discrepancy must be noted on our sample receipt form and noted in the final result report.

There are some exceptions to the thermal preservation requirement as follows;

- > Samples that are received on the same day that they are collected do not need to meet this requirement.
- > Oil samples do not require thermal preservation.
- > Wipe samples do not require thermal preservation.
- $\triangleright$  Samples for metal analysis do not require thermal preservation, however, aqueous samples must be acid preserved to a pH < 2.

We would like to make every effort to assist our clients in meeting the thermal preservation requirement and encourage you to call Mr. Paul Morrow or me if you have any questions. Thank you.

Sincerely,
Danil W. Vou

Daniel W. Vollmer QA/QC Officer

### Volatile Organics in Solids SW-846 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/23/02 Date Received: 08/26/02 Group Number: 2021-2002

Units: µg/Kg Matrix: Soil

WST ID: WT09345 Client ID: BH3 8-10 Extraction Date: NA Date Analyzed: 09/04/02

|                              | Date / that | yzea. 03/04/02 |               |            |
|------------------------------|-------------|----------------|---------------|------------|
| Compound                     | MQL         | Result         | QC Limits (%) | Qualifier  |
| chloromethane                | 1300        | Not detected   |               | U          |
| vinyl chloride               | 1300        | Not detected   |               | U          |
| promomethane                 | 1300        | Not detected   |               | U          |
| chloroethane                 | 1300        | Not detected   |               | . <b>U</b> |
| 1,1-dichloroethene           | 250         | Not detected   |               | U          |
| acetone                      | 1300        | Not detected   |               | U          |
| carbon disulfide             | 250         | Not detected   |               | U          |
| methylene chloride           | 250         | Not detected   |               | U          |
| trans-1,2-dichloroethene     | 250         | Not detected   |               | U          |
| 1,1-dichloroethane           | 250         | Not detected   |               | U          |
| vinyl acetate                | 1300        | Not detected   |               | U          |
| 2-butanone                   | 1300        | Not detected   |               | U          |
| cis-1,2-dichloroethene       | 250         | 1070           |               |            |
| chloroform                   | 250         | Not detected   |               | U          |
| 1,1,1-trichloroethane        | 250         | 1060           |               |            |
| carbon tetrachloride         | 250         | Not detected   |               | U          |
| benzene                      | 250         | Not detected   |               | U          |
| 1,2-dichloroethane           | 250         | Not detected   |               | U          |
| trichloroethene              | 250         | 10100000       |               |            |
| 1,2-dichloropropane          | 250         | Not detected   |               | U          |
| bromodichloromethane         | 250         | Not detected   |               | U          |
| <b>4</b> -methyl-2-pentanone | 1300        | Not detected   |               | . <b>U</b> |
| cis-1,3-dichloropropene      | 250         | Not detected   |               | U          |
| oluene                       | 250         | 2280           |               | •          |
| trans-1,3-dichloropropene    | 250         | Not detected   |               | U          |
| 1,1,2-trichloroethane        | 250         | 13000          |               |            |
| <b>2</b> -hexanone           | 1300        | Not detected   |               | U          |
| <b>e</b> trachloroethene     | 250         | 30400          |               |            |
| dibromochloromethane         | 250         | Not detected   |               | U          |
| chlorobenzene                | 250         | Not detected   |               | U          |
| ethylbenzene                 | 250         | 3000           |               |            |
| <b>n</b> ,p-xylene           | 500         | 11400          |               |            |
| -xylene                      | 250         | 3710           |               |            |
| tyrene                       | 250         | Not detected   |               | U          |
| romoform                     | 250         | Not detected   |               | U          |
| ,1,2,2-tetrachloroethane     | 250         | 537            |               |            |
| 2-Dichloroethane-d4 (%)      |             | 56             | 76-118        | #          |
| oluene-d8 (%)                |             | 88             | 73-117        |            |
| romofluorobenzene (%)        |             | 97             | 76-115        |            |
|                              |             |                |               | ***        |

lution Factor

130



### Volatile Organics in Solids SW-846 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/23/02 Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/Kg Matrix: Soil

WST ID: WT09346 Client ID: BH4 8-10

Extraction Date: NA
Date Analyzed: 09/04/02

| Compound                  | MQL  | Result       | QC Limits (%) | Qualifier |
|---------------------------|------|--------------|---------------|-----------|
| chloromethane             | 1300 | Not detected |               | U         |
| vinyl chloride            | 1300 | Not detected |               | U         |
| bromomethane              | 1300 | Not detected |               | U         |
| chloroethane              | 1300 | Not detected |               | U         |
| 1,1-dichloroethene        | 250  | Not detected |               | U         |
| acetone                   | 1300 | Not detected |               | U         |
| carbon disulfide          | 250  | Not detected | ,             | U         |
| methylene chloride        | 250  | Not detected |               | U         |
| trans-1,2-dichloroethene  | 250  | Not detected |               | U         |
| 1,1-dichloroethane        | 250  | Not detected |               | U         |
| vinyl acetate             | 1300 | Not detected |               | U         |
| 2-butanone                | 1300 | Not detected |               | U         |
| cis-1,2-dichloroethene    | 250  | 1310         |               |           |
| chloroform                | 250  | Not detected |               | U         |
| 1,1,1-trichloroethane     | 250  | Not detected |               | · U       |
| carbon tetrachloride      | 250  | Not detected |               | U         |
| benzene                   | 250  | Not detected |               | U         |
| 1,2-dichloroethane        | 250  | Not detected |               | U         |
| trichloroethene           | 250  | 12100000     |               |           |
| 1,2-dichloropropane       | 250  | Not detected |               | U         |
| bromodichloromethane      | 250  | Not detected |               | U         |
| 4-methyl-2-pentanone      | 1300 | Not detected |               | U         |
| cis-1,3-dichloropropene   | 250  | Not detected |               | U         |
| toluene                   | 250  | 2570         |               |           |
| trans-1,3-dichloropropene | 250  | Not detected |               | U         |
| 1,1,2-trichloroethane     | 250  | 4250         |               |           |
| 2-hexanone                | 1300 | Not detected |               | U         |
| tetrachloroethene         | 250  | 15600        |               |           |
| dibromochloromethane      | 250  | Not detected |               | U         |
| chlorobenzene             | 250  | Not detected |               | U         |
| ethylbenzene              | 250  | 2330         |               |           |
| m,p-xylene                | 500  | 9080         |               |           |
| <b>p</b> -xylene          | 250  | 3570         |               |           |
| styrene                   | 250  | Not detected |               | . U       |
| promoform                 | 250  | Not detected | •             | Ū         |
| 1,1,2,2-tetrachloroethane | 250  | Not detected |               | Ū         |
| 1,2-Dichloroethane-d4 (%) |      | 58           | 76-118        | #         |
| foluene-d8 (%)            |      | 85           | 73-117        | ••        |
| Fromofluorobenzene (%)    |      | 98           | 76-115        |           |
| Pilution Factor 130       |      |              |               |           |

**D**ilution Factor

130



### Volatile Organics in Solids SW-846 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/23/02 Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/Kg Matrix: Soil

WST ID: WT09347 Client ID: BH2 6-8 Extraction Date: NA Date Analyzed: 09/04/02

| Compound                  | MQL  | Result       | QC Limits (%) | Qualifier |
|---------------------------|--|--------------|---------------|-----------|
| chloromethane             | 1300   | Not detected |               | U         |
| vinyl chloride            | 1300   | Not detected |               | U         |
| bromomethane              | 1300   | Not detected |               | U         |
| chloroethane              | 1300   | Not detected |               | υ         |
| 1,1-dichloroethene        | 250  | Not detected |               | U         |
| acetone                   | 1300   | Not detected |               | · U       |
| carbon disulfide          | 250  | Not detected |               | U         |
| methylene chloride        | 250  | 366          |               | +         |
| trans-1,2-dichloroethene  | 250  | Not detected |               | U         |
| 1,1-dichloroethane        | 250  | Not detected |               | U         |
| vinyl acetate             | 1300   | Not detected |               | U         |
| 2-butanone                | 1300   | Not detected |               | U         |
| cis-1,2-dichloroethene    | 250  | Not detected |               | U         |
| chloroform                | 250  | Not detected |               | U         |
| 1,1,1-trichloroethane     | 250  | Not detected |               | U         |
| carbon tetrachloride      | 250  | Not detected |               | U         |
| benzene                   | 250  | Not detected |               | U         |
| 1,2-dichloroethane        | 250  | Not detected |               | U         |
| trichloroethene           | 250  | 74500        |               |           |
| 1,2-dichloropropane       | 250  | Not detected |               | U         |
| bromodichloromethane      | 250  | Not detected |               | U         |
| 4-methyl-2-pentanone      | 1300   | Not detected |               | U         |
| cis-1,3-dichloropropene   | 250  | Not detected |               | U         |
| toluene                   | 250  | Not detected |               | U         |
| trans-1,3-dichloropropene | 250  | Not detected |               | . U       |
| 1,1,2-trichloroethane     | 250  | Not detected |               | U         |
| 2-hexanone                | 1300   | Not detected |               | U         |
| tetrachloroethene         | 250  | Not detected |               | U         |
| dibromochloromethane      | 250  | Not detected |               | U         |
| <b>c</b> hlorobenzene     | 250  | Not detected |               | U         |
| ethylbenzene              | 250  | Not detected |               | U         |
| m,p-xylene                | 500  | Not detected |               | U         |
| <b>&gt;</b> -xylene       | 250  | Not detected |               | U         |
| styrene                   | 250  | Not detected |               | U         |
| romoform                  | 250  | Not detected |               | U         |
| ,1,2,2-tetrachloroethane  | 250  | Not detected |               | U         |
| ,2-Dichloroethane-d4 (%)  |  | 84           | 76-118        |           |
| oluene-d8 (%)             |  | 102          | 73-117        |           |
| romofluorobenzene (%)     |  | 103          | 76-115        |           |
| Mution Factor 130         | No other control of the control of t |              |               |           |

### Volatile Organics in Solids **SW-846** 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/23/02 Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/Kg Matrix: Soil

**WST ID: WT09348** Client ID: BH6 8-10

Extraction Date: NA Date Analyzed: 09/04/02

| Compound                        | MQL         | Result       | QC Limits (%) | Qualifier |
|---------------------------------|-------------|--------------|---------------|-----------|
| hloromethane                    | 1300        | Not detected |               | U         |
| inyl chloride                   | 1300        | Not detected |               | U         |
| romomethane                     | 1300        | Not detected |               | U         |
| hloroethane                     | 1300        | Not detected |               | U         |
| ,1-dichloroethene               | 250         | Not detected |               | U         |
| cetone                          | 1300        | Not detected |               | U         |
| arbon disulfide                 | 250         | Not detected |               | U         |
| nethylene chloride              | 250         | Not detected |               | U         |
| ans-1,2-dichloroethene          | 250         | Not detected |               | U         |
| ,1-dichloroethane               | 250         | Not detected |               | U         |
| inyl acetate                    | 1300        | Not detected |               | U         |
| -butanone                       | 1300        | Not detected | i .           | U         |
| is-1,2-dichloroethene           | 250         | Not detected |               | U         |
| hloroform                       | 250         | Not detected |               | U         |
| ,1,1-trichloroethane            | 250         | Not detected |               | U         |
| arbon tetrachloride             | 250         | Not detected |               | . U       |
| enzene                          | 250         | Not detected |               | U         |
| ,2-dichloroethane               | 250         | Not detected |               | U         |
| richloroethene                  | 250         | 730          |               |           |
| ,2-dichloropropane              | 250         | Not detected | •             | U         |
| promodichloromethane            | 250         | Not detected |               | U         |
| l-methyl-2-pentanone            | 1300        | Not detected |               | U         |
| sis-1,3-dichloropropene         | 250         | Not detected |               | U         |
| oluene                          | 250         | Not detected |               | U         |
| rans-1,3-dichloropropene        | 250         | Not detected |               | U         |
| ,1,2-trichloroethane            | 250         | Not detected |               | U         |
| -hexanone                       | 1300        | Not detected |               | U         |
| etrachloroethene                | 250         | Not detected |               | U         |
| ibromochloromethane             | 250         | Not detected |               | U         |
| hlorobenzene                    | 250         | Not detected |               | U         |
| thylbenzene                     | 250         | Not detected |               | U         |
| n,p-xylene                      | 500         | 1560         |               |           |
| -xylene                         | 250         | Not detected |               | U         |
| yrene                           | 250         | Not detected | •             | Ū         |
| omoform                         | 250         | Not detected |               | Ü         |
| 1,2,2-tetrachloroethane         | 250         | Not detected |               | · U       |
| <b>2</b> -Dichloroethane-d4 (%) | <del></del> | 81           | 76-118        | -         |
| luene-d8 (%)                    |             | 94           | 73-117        |           |
| omofluorobenzene (%)            |             | 99           | 76-115        |           |
| ution Factor 130                |             |              | 10 110        |           |



### Volatile Organics in Solids SW-846 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/23/02 Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/Kg Matrix: Soil

WST ID: WT09349 Client ID: BH8 8-10 Extraction Date: NA

Date Analyzed: 09/04/02

| Compound                  | MQL  | Result       | QC Limits (%) | Qualifier |
|---------------------------|------|--------------|---------------|-----------|
| chloromethane             | 1300 | Not detected |               | U         |
| vinyl chloride            | 1300 | Not detected |               | U         |
| bromomethane              | 1300 | Not detected |               | U         |
| chloroethane              | 1300 | Not detected |               | U         |
| 1,1-dichloroethene        | 250  | Not detected |               | U         |
| acetone                   | 1300 | Not detected |               | U         |
| carbon disulfide          | 250  | Not detected |               | U         |
| methylene chloride        | 250  | Not detected |               | U         |
| trans-1,2-dichloroethene  | 250  | Not detected |               | U         |
| 1,1-dichloroethane        | 250  | Not detected |               | U         |
| vinyl acetate             | 1300 | Not detected |               | U         |
| 2-butanone                | 1300 | Not detected |               | U         |
| cis-1,2-dichloroethene    | 250  | 429          |               |           |
| chloroform                | 250  | Not detected |               | U         |
| 1,1,1-trichloroethane     | 250  | Not detected |               | U         |
| carbon tetrachloride      | 250  | Not detected |               | U         |
| benzene                   | 250  | Not detected |               | U         |
| 1,2-dichloroethane        | 250  | Not detected |               | U         |
| trichloroethene           | 250  | 192000       |               |           |
| 1,2-dichloropropane       | 250  | Not detected |               | U         |
| bromodichloromethane      | 250  | Not detected |               | U         |
| 4-methyl-2-pentanone      | 1300 | Not detected |               | U         |
| cis-1,3-dichloropropene   | 250  | Not detected |               | U         |
| toluene                   | 250  | Not detected |               | U         |
| trans-1,3-dichloropropene | 250  | Not detected |               | U         |
| 1,1,2-trichloroethane     | 250  | Not detected |               | U         |
| 2-hexanone                | 1300 | Not detected |               | · U       |
| tetrachloroethene         | 250  | 459          |               |           |
| dibromochloromethane      | 250  | Not detected |               | U         |
| chlorobenzene             | 250  | Not detected |               | U         |
| ethylbenzene              | 250  | Not detected |               | U         |
| m,p-xylene                | 500  | Not detected |               | U         |
| o-xylene                  | 250  | Not detected |               | U         |
| styrene                   | 250  | Not detected |               | U         |
| bromoform                 | 250  | Not detected |               | U         |
| 1,1,2,2-tetrachloroethane | 250  | Not detected |               | U         |
| 1,2-Dichloroethane-d4 (%) |      | 84           | 76-118        |           |
| Toluene-d8 (%)            |      | 97           | 73-117        |           |
| Bromofluorobenzene (%)    |      | 103          | 76-115        |           |

**Dilution Factor** 

130



# **Volatile** Organics Analysis **SW**-846 8260B

Site: States St. Mayville
Date Campled: 08/23/02
Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/L Matrix: Aqueous

WST ID: WT09350 Client ID: TPMW1 Extraction Date: NA Date Analyzed: 09/06/02

| Compound                  | MQL | Result       | QC Limits (%) | Qualifier |  |
|---------------------------|-----|--------------|---------------|-----------|--|
| chloromethane             | 2   | Not detected |               | U         |  |
| vinyl chloride            | 1   | 2            |               |           |  |
| bromomethane              | 2   | Not detected |               | U         |  |
| chloroethane              | 2   | Not detected |               | U         |  |
| 1,1-dichloroethene        | 1   | Not detected |               | U         |  |
| acetone                   | 10  | Not detected |               | U         |  |
| carbon disulfide          | 1   | Not detected |               | U         |  |
| methylene chloride        | 2   | Not detected |               | U         |  |
| trans-1,2-dichloroethene  | 1   | Not detected |               | U         |  |
| 1,1-dichloroethane        | 1   | Not detected |               | U         |  |
| vinyl acetate             | 10  | Not detected |               | U         |  |
| 2-butanone                | 10  | Not detected |               | U         |  |
| cis-1,2-dichloroethene    | 1   | 1            |               |           |  |
| chloroform                | 1   | Not detected |               | U         |  |
| 1,1,1-trichloroethane     | 1   | Not detected |               | U         |  |
| carbon tetrachloride      | 1   | Not detected |               | U         |  |
| benzene                   | 1   | Not detected |               | U         |  |
| 1,2-dichloroethane        | 1   | Not detected |               | · U       |  |
| trichloroethene           | 1   | 34           |               |           |  |
| 1,2-dichloropropane       | 1   | Not detected |               | U         |  |
| bromodichloromethane      | 1   | Not detected |               | U         |  |
| 2-chloroethylvinyl ether  | 10  | Not detected |               | υ         |  |
| 4-methyl-2-pentanone      | 10  | Not detected |               | U         |  |
| cis-1,3-dichloropropene   | 1   | Not detected |               | U         |  |
| toluene                   | 1   | Not detected |               | U         |  |
| trans-1,3-dichloropropene | 1   | Not detected |               | U         |  |
| 1,1,2-trichloroethane     | 1   | Not detected |               | U         |  |
| 2-hexanone                | 10  | Not detected |               | U         |  |
| tetrachloroethene         | 1   | 1            |               |           |  |
| dibromochloromethane      | 1   | Not detected |               | U         |  |
| chlorobenzene             | 1   | Not detected |               | Ü         |  |
| ethylbenzene              | 1   | Not detected |               | Ū         |  |
| m,p-xylene                | 2   | Not detected |               | Ū         |  |
| o-xylene                  | 1   | Not detected |               | Ū         |  |
| styrene                   | 1   | Not detected |               | Ü         |  |
| bromoform                 | 1   | Not detected |               | Ü         |  |
| 1,1,2,2-tetrachloroethane | 1   | Not detected |               | . U       |  |
| 1,2-Dichloroethane-d4 (%) | •   | 102          | 76-114        | . 0       |  |
| Toluene-d8 (%)            |     | 94           | 84-118        |           |  |
| Bromofluorobenzene (%)    |     | 98           | 82-117        |           |  |
| Dilution Factor 1         |     | 30           | 04-111        |           |  |



### Volatile Organics Analysis SW-846 8260B

Site: St Valley St. Mayville Date Sampled: 08/25/02 Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/L Matrix: Aqueous

WST ID: WT09351
Client ID: TPMW2
Extraction Date: NA
Date Analyzed: 09/06/02

| Compound                  | MOL        | Result       | QC Limits (%) | Qualifier |
|---------------------------|------------|--------------|---------------|-----------|
| chloromethane             | 10         | Not detected | U             |           |
| vinyl chloride            | 5          | 64           |               |           |
| bromomethane              | 10         | Not detected |               | U         |
| chloroethane              | 10         | Not detected |               | U         |
| 1,1-dichloroethene        | 5          | Not detected |               | U         |
| acetone                   | 50         | Not detected |               | U         |
| carbon disulfide          | 5          | Not detected |               | U         |
| methylene chloride        | 10         | Not detected |               | U         |
| trans-1,2-dichloroethene  | 5          | 16           |               | •         |
| 1,1-dichloroethane        | 5          | 6            |               |           |
| vinyl acetate             | 50         | Not detected | U             |           |
| 2-butanone                | 50         | Not detected |               | U         |
| cis-1,2-dichloroethene    | 5          | 848          |               |           |
| chloroform                | 5          | Not detected |               | U         |
| 1,1,1-trichloroethane     | 5          | Not detected |               | U         |
| carbon tetrachloride      | 5          | Not detected |               | U         |
| benzene                   | 5          | Not detected |               | U         |
| 1,2-dichloroethane        | <b>5</b> . | Not detected |               | U         |
| trichloroethene           | 20         | 1940         |               |           |
| 1,2-dichloropropane       | 5          | Not detected |               | U         |
| bromodichloromethane      | 5          | Not detected |               | U         |
| 2-chloroethylvinyl ether  | 50         | Not detected |               | U         |
| 4-methyl-2-pentanone      | 50         | Not detected |               | U         |
| cis-1,3-dichloropropene   | 5          | Not detected |               | U         |
| toluene                   | 5          | Not detected |               | υ         |
| trans-1,3-dichloropropene | 5          | Not detected |               | U         |
| 1,1,2-trichloroethane     | 5          | Not detected |               | U         |
| 2-hexanone                | 50         | Not detected |               | . U       |
| tetrachloroethene         | 5          | 5            |               |           |
| dibromochloromethane      | 5          | Not detected |               | U         |
| chlorobenzene             | 5          | Not detected |               | U         |
| ethylbenzene              | 5          | Not detected |               | U         |
| m,p-xylene                | 10         | Not detected |               | U         |
| o-xylene                  | 5          | Not detected |               | U         |
| styrene                   | 5          | Not detected |               | U         |
| bromoform                 | 5          | Not detected |               | U         |
| 1,1,2,2-tetrachloroethane | 5          | Not detected |               | U         |
| 1,2-Dichloroethane-d4 (%) | -          | 97           | 76-114        |           |
| Toluene-d8 (%)            |            | 90           | 84-118        |           |
| Bromofluorobenzene (%)    |            | 96           | 82-117        |           |

**Dilution Factor** 





### Volatile Organics Analysis SW-846 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/25/02 Date Received: 08/26/02 Group Number: 2021-2002

Units: µg/L Matrix: Aqueous

WST ID: WT09352 Client ID: TPMW3 Extraction Date: NA Date Analyzed: 09/06/02

| Compound                  | MQL              | Result       | QC Limits (%) | Qualifier |
|---------------------------|------------------|--------------|---------------|-----------|
| chloromethane             | 1000             | Not detected |               | U         |
| vinyl chloride            | 500              | 850          |               |           |
| bromomethane              | 1000             | Not detected |               | U         |
| chloroethane              | 1000             | Not detected |               | U         |
| 1,1-dichloroethene        | 500              | Not detected |               | U         |
| acetone                   | 5000             | Not detected |               | U         |
| carbon disulfide          | 500              | Not detected |               | U         |
| methylene chloride        | 1000             | Not detected | •             | U         |
| trans-1,2-dichloroethene  | 500              | Not detected |               | U         |
| 1,1-dichloroethane        | 500              | Not detected |               | U         |
| vinyl acetate             | 5000             | Not detected |               | U         |
| 2-butanone                | 5000             | Not detected |               | U         |
| cis-1,2-dichloroethene    | 500              | 4420         |               |           |
| chloroform                | 500              | Not detected |               | U         |
| 1,1,1-trichloroethane     | 500              | Not detected |               | U         |
| carbon tetrachloride      | 500              | Not detected |               | U         |
| benzene                   | 500              | Not detected |               | U         |
| 1,2-dichloroethane        | 500              | Not detected |               | U         |
| trichloroethene           | 50000            | 1450000      |               |           |
| 1,2-dichloropropane       | 500              | Not detected |               | U         |
| bromodichloromethane      | 500              | Not detected |               | U         |
| 2-chloroethylvinyl ether  | 5000             | Not detected |               | U         |
| 4-methyl-2-pentanone      | 5000             | Not detected |               | U         |
| cis-1,3-dichloropropene   | 500              | Not detected |               | U         |
| toluene                   | 500              | Not detected |               | U         |
| trans-1,3-dichloropropene | 500              | Not detected |               | U         |
| 1,1,2-trichloroethane     | 500              | 5650         |               |           |
| 2-hexanone                | 5000             | Not detected |               | U         |
| tetrachloroethene         | 500              | Not detected |               | U         |
| dibromochloromethane      | 500              | Not detected |               | U         |
| chlorobenzene             | 500              | Not detected |               | U         |
| ethylbenzene              | 500              | Not detected |               | U.        |
| m,p-xylene                | 1000             | Not detected |               | U         |
| o-xylene                  | 500              | Not detected |               | U         |
| styrene                   | 500              | Not detected |               | Ū         |
| bromoform                 | 500              | Not detected |               | Ū         |
| 1,1,2,2-tetrachloroethane | 500              | Not detected |               | Ū         |
| 1,2-Dichloroethane-d4 (%) | _ <del>_</del> _ | 89           | 76-114        | -         |
| Toluene-d8 (%)            |                  | 91           | 84-118        | •         |
| Bromofluorobenzene (%)    |                  | 98           | 82-117        |           |

**Dilution Factor** 

### **Volatile Organics in Solids** SW-846 8260B

Site: 21 Valley St. Mayville Date Sampled: 08/25/02 Date Received: 08/26/02

Group Number: 2021-2002

Units: µg/Kg Matrix: Oil

WST ID: WT09353 Client ID: TPMW3 DNAPL

Extraction Date: NA Date Analyzed: 09/04/02

| Compound                  | MQL     | Result  | QC Limits (%)  | Qualifier |
|---------------------------|---------|---|--|-----------|
| chloromethane             | 1300000 | Not detected  |  | U         |
| vinyl chloride            | 1300000 | Not detected  |  | U         |
| bromomethane              | 1300000 | Not detected  |  | U         |
| chloroethane              | 1300000 | Not detected  |  | U         |
| 1,1-dichloroethene        | 250000  | Not detected  |  | U         |
| acetone                   | 1300000 | Not detected  |  | U         |
| carbon disulfide          | 250000  | Not detected  |  | U         |
| methylene chloride        | 250000  | 131000  |  | J         |
| trans-1,2-dichloroethene  | 250000  | Not detected  |  | U         |
| 1,1-dichloroethane        | 250000  | Not detected  |  | . U       |
| vinyl acetate             | 1300000 | Not detected  |  | U         |
| 2-butanone                | 1300000 | Not detected  |  | U         |
| cis-1,2-dichloroethene    | 250000  | 457000  |  |           |
| chloroform                | 250000  | Not detected  |  | U         |
| 1,1,1-trichloroethane     | 250000  | 175000  |  | J         |
| carbon tetrachloride      | 250000  | Not detected  |  | U         |
| benzene                   | 250000  | Not detected  |  | U         |
| 1,2-dichloroethane        | 250000  | Not detected  |  | U         |
| trichloroethene           | 250000  | 8.42E+8   |  |           |
| 1,2-dichloropropane       | 250000  | Not detected  |  | U         |
| bromodichloromethane      | 250000  | Not detected  |  | U         |
| 4-methyl-2-pentanone      | 1300000 | Not detected  |  | U         |
| cis-1,3-dichloropropene   | 250000  | Not detected  |  | U         |
| toluene                   | 250000  | 247000  |  | J         |
| trans-1,3-dichloropropene | 250000  | Not detected  |  | U         |
| 1,1,2-trichloroethane     | 250000  | 1250000   | •  |           |
| 2-hexanone                | 1300000 | Not detected  |  | U         |
| tetrachloroethene         | 250000  | 3310000   |  |           |
| dibromochloromethane      | 250000  | Not detected  |  | U         |
| chlorobenzene             | 250000  | Not detected  |  | U         |
| ethylbenzene              | 250000  | 221000  |  | J         |
| m,p-xylene                | 500000  | 775000  |  |           |
| o-xylene                  | 250000  | 239000  |  | J         |
| styrene                   | 250000  | Not detected  |  | U         |
| bromoform                 | 250000  | Not detected  |  | U         |
| 1,1,2,2-tetrachloroethane | 250000  | Not detected  |  | U         |
| 1,2-Dichloroethane-d4 (%) |         | 0.0   | 76-118   | \$        |
| Toluene-d8 (%)            |         | 0.0   | 73-117   | \$        |
| Bromofluorobenzene (%)    |         | 0.0   | 76-115   | \$        |
| Dilution Factor 130000    |         | A PROPERTY OF THE PROPERTY OF | The second secon |           |

### **VOC Soil Method Blank Results** SW-846 8260B

Site: 21 Valley St. Mayville

Date Sampled: NA Date Received: NA Group Number: 2021-2002

Units: µg/Kg

WST ID: MB090402

Client ID: NA Extraction Date: NA

Date Analyzed: 09/04/02

| Compound                  | <b>Detection Limit</b> | Result       | QC Limits (%) | Qualifier |
|---------------------------|------------------------|--------------|---------------|-----------|
| chloromethane             | 1250                   | Not detected |               | U         |
| vinyl chloride            | 1250                   | Not detected |               | · U       |
| promomethane              | 1250                   | Not detected |               | U         |
| chloroethane              | 1250                   | Not detected |               | U         |
| 1,1-dichloroethene        | 250                    | Not detected |               | U         |
| acetone                   | 1250                   | Not detected |               | U         |
| carbon disulfide          | 250                    | Not detected |               | U         |
| methylene chloride        | 250                    | Not detected |               | · U       |
| rans-1,2-dichloroethene   | 250                    | Not detected |               | U         |
| 1,1-dichloroethane        | 250                    | Not detected | •             | U         |
| rinyl acetate             | 1250                   | Not detected |               | U         |
| ?-butanone                | 1250                   | Not detected |               | U         |
| cis-1,2-dichloroethene    | 250                    | Not detected |               | U         |
| chloroform                | 250                    | Not detected |               | U         |
| 1,1,1-trichloroethane     | 250                    | Not detected |               | U         |
| carbon tetrachloride      | 250                    | Not detected |               | U         |
| penzene                   | 250                    | Not detected |               | U         |
| 1,2-dichloroethane        | 250                    | Not detected |               | U         |
| richloroethene            | 250                    | Not detected | •             | U         |
| ,2-dichloropropane        | 250                    | Not detected |               | U         |
| promodichloromethane      | 250                    | Not detected |               | . U       |
| 4-methyl-2-pentanone      | 1250                   | Not detected |               | U         |
| cis-1,3-dichloropropene   | 250                    | Not detected |               | U         |
| oluene                    | 250                    | Not detected |               | U         |
| rans-1,3-dichloropropene  | 250                    | Not detected |               | U         |
| 1,1,2-trichloroethane     | 250                    | Not detected |               | U         |
| 2-hexanone                | 1250                   | Not detected |               | U         |
| etrachloroethene          | 250                    | Not detected |               | U         |
| dibromochloromethane      | 250                    | Not detected |               | U         |
| chlorobenzene             | 250                    | Not detected |               | U         |
| ethylbenzene              | 250                    | Not detected |               | U         |
| m,p-xylene                | 500                    | Not detected |               | U         |
| o-xylene                  | 250                    | Not detected |               | U         |
| styrene                   | 250                    | Not detected |               | U         |
| oromoform                 | 250                    | Not detected |               | U         |
| 1,1,2,2-tetrachloroethane | 250                    | Not detected |               | · U       |
| 1,2-Dichloroethane-d4 (%) |                        | 86           | 76-118        |           |
| Toluene-d8 (%)            |                        | 100          | 73-117        |           |
| Bromofluorobenzene (%)    |                        | 102          | 76-115        |           |

MB denotes Method Blank

#### VOC Water Method Blank SW-846 8260B

Site: 21 Valley St. Mayville

Date Sampled: NA Date Received: NA Group Number: 2021-2002

Units: µg/L

WST ID: MB090402

Client ID: NA Extraction Date: NA Date Analyzed: 09/06/02

| Compound                  | <b>Detection Limit</b> | Result       | QC Limits (%) | Qualifier |
|---------------------------|------------------------|--------------|---------------|-----------|
| chloromethane             | 2                      | Not detected |               | U         |
| vinyl chloride            | 1 .                    | Not detected |               | U         |
| bromomethane              | 2                      | Not detected |               | υ         |
| chloroethane              | 2                      | Not detected |               | U         |
| 1,1-dichloroethene        | 1                      | Not detected |               | U         |
| acetone                   | 10                     | Not detected |               | υ         |
| carbon disulfide          | 1                      | Not detected |               | U         |
| methylene chloride        | 2                      | Not detected |               | U         |
| trans-1,2-dichloroethene  | 1                      | Not detected |               | U         |
| 1,1-dichloroethane        | 1                      | Not detected |               | U         |
| vinyl acetate             | 10                     | Not detected | •             | U         |
| 2-butanone                | 10                     | Not detected |               | . U       |
| cis-1,2-dichloroethene    | 1                      | Not detected |               | U         |
| chloroform                | 1                      | Not detected |               | υ         |
| 1,1,1-trichloroethane     | 1                      | Not detected |               | U         |
| carbon tetrachloride      | 1                      | Not detected |               | U         |
| benzene                   | 1                      | Not detected |               | U         |
| 1,2-dichloroethane        | 1                      | Not detected |               | U         |
| trichloroethene           | 1                      | Not detected |               | υ         |
| 1,2-dichloropropane       | 1                      | Not detected |               | U         |
| bromodichloromethane      | 1                      | Not detected |               | U         |
| 2-chloroethylvinyl ether  | 10                     | Not detected |               | υ         |
| 4-methyl-2-pentanone      | 10                     | Not detected |               | U         |
| cis-1,3-dichloropropene   | 1                      | Not detected |               | υ         |
| toluene                   | 1                      | Not detected |               | U         |
| trans-1,3-dichloropropene | 1                      | Not detected |               | U         |
| 1,1,2-trichloroethane     | 1                      | Not detected |               | υ         |
| 2-hexanone                | 10                     | Not detected |               | U         |
| tetrachloroethene         | 1.                     | Not detected |               | U         |
| dibromochloromethane      | 1                      | Not detected |               | U         |
| chlorobenzene             | 1                      | Not detected | •             | U         |
| ethylbenzene              | 1                      | Not detected |               | . υ       |
| n,p-xylene                | 2                      | Not detected |               | Ü         |
| p-xylene                  | 1                      | Not detected |               | Ū         |
| ityrene                   | 1                      | Not detected |               | บ         |
| romoform                  | 1                      | Not detected |               | Ū         |
| ,1,2,2-tetrachloroethane  | 1                      | Not detected |               | ΰ         |
| ,2-Dichloroethane-d4 (%)  | •                      | 85           | 76-114        | _         |
| oluene-d8 (%)             | ·                      | 95           | 84-118        |           |
| romofluorobenzene (%)     |                        | 96           | 82-117        |           |

ilution Factor 1
B denotes Method Blank

NA denotes Not Applicable

| CHAIN OF CUSTODY   |                   | TECHN          | REAM   |                  | GRO  |         |             | 1 - Q.C  | X) g   | PAGE   | OF  |
|--|-------------------|----------------|--|------------------|--|---------|-------------|--|--|--|---|
| P.O. Box 406<br>Buffalo, NY 14205                          | 302 Gro           | te Street, But | ffalo, NY 1420<br>( (716) 876-24                           | )7               | DUE  | DATE_   | TURN        | AROUND   | IJME:  | REQUIRED:                                    | ETECTION LIMITS NO 5 7 D ch requirements. |
| CONTACT Doug Reid PH.#() 7/6 - 845-6/45                    |                   |                | DW DRINKIN<br>GW GROUNI<br>SW SURFAC<br>WW WASTE'<br>O OIL | WATER<br>E WATER | SL SLUDGI<br>SO SOIL<br>S SOLID<br>W WIPE<br>OTHER   | E       | QUOTA       | ATION NUI  | MBER:  | is a QC Package<br>YES<br>If yes please atta | required: STD                             |
| FAX #() 7/6 - 845 - 6/64<br>BILL TO: 1 - 5                 |                   |                | IERS   |                  | ANALYSE  | ES TO B | E PERI      | ORMED  |  |  |   |
| PO# 02B273.22 PROJECT DESCRIPTION 21 Valley St., May ville | DATE SAMPLED      | SAMPLE TYPE    | JOHL NO. OF CONTAINERS                                     | / /              |  | / /     | Jerus Tives |  | ////   |  |   |
| SAMPLER SIGNATURE  | DATE S,           | SAMPLE TYPE    | STAL NO  |                  |  | 1       | 5           | /X/  |  | TYPE OF CONTAINER/<br>COMMENTS:              | OFFICE USE<br>ONLY<br>WST. I.D.           |
| 1 BH3 CHQ-128-111  | 8/23 -            | 50 1           | Larer .  |                  |  | 1/      | V           |  |  | W  | 1509345°                                  |
| 2 13/14 8-10   | 8/23 -            | 30 1           | 1/   |                  |  | 4       | W           |  |  |  | 46  |
| 3 BH 2 6-8=7-6   | 0/25 -            | 10/1           | 14   |                  |  | +       | V           |  |  |  |   |
| 4 070 0 0  | Sylvedon warm     | Half.          |  |                  |  | ++      |             |  |  | ·  | 48  |
| 5 1517 / TV 8  | 8/23 -            | 50 1           | +//  |                  | e and a second s |         | S. C.       |  | <del>                                     </del> |  | 49  |
| 6 P/10 0 10  | 8/23 mm           | GW 3           | 17   |                  |  | + +     |             |  | <del>-   -   -</del>                             |  | 50  |
| 8 77 MW 2  | 8/25 -            | [W] 3          |  |                  |  | +       | 1           | Separate Property Control  | + + + -  |  | 5   |
| FPNW3  | 75 -              | 5W 3           | 1  | 1                |  |         | fgra        | jaren .  |  | 1 1 1 2 1 m                                  |   |
| 10 FAH-43  | 435               |                |  |                  |  |         |             |  |  |  | \$ 53                                     |
| REMARKS: TPMW3 - Anchy.                                    | ze both           | of he.         | 160 J  | OK               | IAPL   | p. H    | W15         | for 8m   | 16-72-1  |  |   |
| X / Production   | Secretary Company |                |  |                  |  |         |             |  |  |  |   |
|  | ·                 |                |  |                  |  |         |             |  |  | ,  |   |
| RELINQUISHED BY:   | DATE:             | 26/02          | TIME:  |                  | RECEIV   | tan     | t           | and a state of the |  | DATE:  | TIME:                                     |
| RELINQUISHED BY:   | DATE:             |                | TIME:  |                  | RECEIV   | FD RY   |             |  |  | INATE  | 1 40.4                                    |

RELINQUISHED BY: