### 4.0 EXTENT OF OBSERVED WASTE IMPACTS

This section summarizes the refined extent of MGP-impacted soils and sediments onsite based on results from this PDI. Figures 2.1 and 2.2 present the horizontal and vertical extent of MGP waste impact to soils and sediments. The extent of MGP-waste impacts in samples collected during the PDI is largely consistent with that reported during the remedial investigation (RI). Refinements to the contaminant extent determined during the RI are described below.

Depositional Area Near Railroad Culvert. RI sampling revealed the existence of dense nonaqueous-phase liquid (DNAPL) at 3 to 3.5 feet (ft) below top of sediment (at RI sample locations TB-2 and TB-3) in an area on the west side of the Adirondack Scenic Railroad adjacent to a drainage culvert underneath the railroad tracks that conveys water from offsite to the west to Brandy Brook. Hand borings HB-401 through 405 were advanced to refine the vertical and horizontal extent of MGP-waste impacts in this area. PAHs were detected at sample location HB-403 from 3 to 4 ft below the top of sediment at concentrations below the Class A SGV, and were not observed from the 4 to 6 ft interval. Therefore, the vertical extent of MGP impacts in this area is to 4 ft below the top of sediment, with a horizontal extent of approximately 184 square yards (SY).

Area of Brandy Brook along Brandy Brook Road. During the RI, MGP waste impacts were observed to be confined horizontally within the brook channel in the area adjacent to Brandy Brook Road. During the PDI, HB-406 through HB-409, SB-339, and SB-340 were advanced to refine the vertical extent of MGP waste impacts to the portion of Brandy Brook that flows along Brandy Brook Road. MGP waste impacts were observed from 0 to 6 ft below the top of brook sediment for the first 140 ft downstream from the culvert beneath the Adirondack Scenic Railroad, and 0 to 4 ft below top of sediment from there downstream to the two 24-inch culverts that extend beneath Slater Avenue.

### Brandy Brook beneath Slater Avenue., the NBT Bank Property, and Lake Flower Avenue.

During the PDI, MGP waste impacts were not observed to extend horizontally outward from the two 24-inch pipes carrying Brandy Brook beneath Slater Avenue, the NBT Bank Property, and Lake Flower Avenue. A PDI video inspection of these pipes revealed an increasing accumulation of sediment as the pipes approach Pontiac Bay. The greatest thickness of accumulated sediment (approximately 8 inches) was observed in the pipe section located beneath Lake Flower Avenue.

Lake Flower Inn Property (Tax Map 32.0JB-5-4.000). Sampling at OU-03 during the RI was limited to Pontiac Bay sediments. PDI soil sampling along the banks of the Bay revealed that MGP-waste impacts extend horizontally outward from the shoreline. Waste impacts observed on the Lake Flower Inn property (Tax Map 32.0JB-5-4.000) in boring SB-329 included two separate waste types. Petroleum impacts (likely degraded fuel oil) were encountered at depths corresponding to the groundwater interface and slightly deeper (5 to 11 ft below ground surface [bgs]). Observed fuel impacts were visually/olfactorily distinct when compared to the MGP-impacted soils encountered in the same boring (SB-329) at the 11 to 14 ft bgs interval. This stratified pattern of vertically unique zones of impacted soils was also observed in other borings on the property, including SB-338 and SB-330. During the NYLD site utility markout, GPR imagery revealed the potential for an underground storage tank (UST) located to the west of SB-330. The approximate location of the presumed UST is shown on Figure 2.2.

As a result of the observed petroleum impacts, MACTEC reported a spill to the NYSDEC Spills Hotline. The reported spill was assigned No. 1611623.

<u>Village of Saranac Lake Shoreline Property (32.0JB-4-5.000).</u> PDI soil sampling along the northern shoreline of the Bay revealed that MGP-waste impacts also extend horizontally outward from the shoreline onto the Village owned parcel (Tax Map 32.0JB-4-5.000). MGP-impacted soils were observed consistently from 0 to 10 feet in SB/PZ-328 and SB-606 as shown on Figure 2.2.

Additionally, soils observed in SB-607 through SB-612 exhibited strong evidence of impacts from a petroleum source (presumably gasoline). Samples (SB-607 and SB-611) were submitted to TestAmerica for VOC, SVOC, and Petroleum Hydrocarbon Fingerprint Method 310.13 gasoline footprint analysis. Results revealed that both samples contained products resembling highly degraded gasoline and/or motor oil, and did not contain comparable SVOC concentrations as those observed in known MGP-impacted soils (see Table 3.4).

As a result of the observed gasoline impacts, MACTEC reported a spill to the NYSDEC Spills Hotline. The reported spill was assigned No. 1700234.

### 5.0 REFERENCES

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- NYSDEC, 2015. Record of Decision, Saranac Lake Gas Company, Inc., Operable Unit Number 03: Pontiac Bay on Lake Flower. March 2015.
- NYSDEC, 2010. DER-10, Technical Guidance for Site Investigation and Remediation. May 3, 2010.

### **TABLES**

**Table 2.1: Geotechnical Laboratory Testing Summary** 

| Boring    | Samples                   | Depths (ft) | Grain<br>Size | Direct<br>Shear | Norn | nal loads ( | (PSF) | Density (PSF) |
|-----------|---------------------------|-------------|---------------|-----------------|------|-------------|-------|---------------|
| SB-501    | combined S-7, S-8 and S-9 | 30, 35, 40  | 1             | 1               | 1300 | 1600        | 1900  | 100           |
| SB-502    | combined S-4, S-5 and S-6 | 15, 20, 25  | 1             | 1               | 700  | 1000        | 1300  | 100           |
| SB-503    | S-2                       | 5           | 1             | -               | -    | -           | -     | -             |
| 3D-303    | combined S-4, S-5 and S-6 | 15, 20, 25  | 1             | 1               | 1300 | 1600        | 1900  | 100           |
| SB-504    | combined S-2, S-3 and S-4 | 5, 10, 15   | 1             | 1               | 400  | 700         | 1000  | 100           |
|           | S-5                       | 20          | 1             | -               | -    | -           | -     | -             |
| SB-505    | S-7                       | 30          | 1             | -               | -    | -           | -     | -             |
|           | S-11                      | 50          | 1             | -               | -    | -           | -     | -             |
| SB-506    | S-7                       | 30          | 1             | -               | -    | -           | -     | -             |
| SD-300    | S-8                       | 35          | 1             | -               | -    | -           | -     | -             |
| SB/PZ-331 | S-7                       | 15          | 1             | -               | -    | -           | -     | -             |
| SB/PZ-335 | S-7                       | 15          | 1             | -               | -    | -           | -     | -             |

**Table 3.1: Pre-Design Soil Investigation Findings** 

| Sample Location | Sampling | Тор      | Bottom            | Visual                                    | Field Scan     |
|-----------------|----------|----------|-------------------|---|----------------|
| ID              | Method   | Depth    | Depth             | MGP Description Type                      | PID            |
| SB-301          | DP       | (ft hgs) | ( <b>ft hgs</b> ) | NOI                                       | ( <b>ppm</b> ) |
| SB-302          | DP       | 0        | 16                | NOI                                       | 0              |
| SB-303          | DP       | 0        | 7.5               | NOI                                       | 0              |
| SB-304          | DP       | 0        | 12                | NOI                                       | 0              |
| SB-309          | HSA      | 0        | 45                | NOI                                       | 0              |
| SB-311          | DP       | 0        | 12                | NOI                                       | 0              |
| SB-317          | DP       | 0        | 9.5               | NOI                                       | 0              |
| SB-318          | DP       | 0        | 12                | NOI                                       | 0              |
| SB-319          | DP       | 0        | 16                | NOI                                       | 0              |
| SB-320          | DP       | 0        | 8.3               | NOI                                       | 0              |
| SB-321          | DP       | 0        | 9.2               | NOI                                       | 0              |
| SB-322          | HSA      | 0        | 22.2              | NOI                                       | 0              |
| SB-323          | DP       | 0        | 16                | NOI                                       | 0              |
| SB-324          | DP       | 0        | 16                | NOI                                       | 0              |
|                 |          | 0        | 3                 | NOI                                       | 0              |
| SB-326          | DP       | 3        | 5.9               | Odor (non-MGP)                            | 80.2           |
|                 |          | 5.9      | 16                | NOI                                       | 0              |
|                 |          | 0        | 5                 | NOI                                       | 0              |
| SB-327          | HSA      | 5        | 10                | residual staining/<br>moderate odor       | 4.6            |
|                 |          | 10       | 25                | NOI                                       | 0              |
|                 |          | 0        | 2                 | slight odor                               | 0              |
|                 |          | 2        | 5                 | NOI                                       |                |
| SB-328          | HSA      | 5        | 10                | residual staining/<br>moderate odor       | 4.6            |
|                 |          | 10       | 25                | NOI                                       | 0              |
|                 |          | 0        | 4                 | NOI                                       | 0              |
|                 |          |          |                   | Poor recovery -                           |                |
|                 |          | 4        | 8                 | sheen/odor (petroleum)                    | 6.1            |
| SB-329          | DP       | 8        | 12                | Poor recovery -<br>sheen/odor (petroleum) | NM             |
|                 |          | 12       | 15                | residual staining/<br>strong odor         | 21             |
|                 |          | 15       | 17                | faint odor                                | 11.6           |
|                 |          | 0        | 8                 | NOI                                       | 0              |
|                 |          | 8        | 11                | sheen/strong odor                         | 4.9            |
|                 |          |          | 11                | (petroleum)                               | 7.2            |
| SB-330          | DP       | 11       | 12                | NOI                                       | 0              |
|                 |          | 12       | 14                | residual staining/<br>strong odor         | 32.6           |
|                 |          | 14       | 16                | NOI                                       | 0              |
| SB-331          | HSA      | 0        | 25                | NOI                                       | 0              |
| SB-332          | DP       | 0        | 9                 | NOI                                       | 0              |
|                 |          | 0        | 3.4               | NOI                                       | 0              |
| SB-333          | DP       | 3.4      | 4                 | faint odor                                | 0              |
|                 |          | 4        | 15                | NOI                                       | 0              |
|                 |          | 0        | 2.2               | NOI                                       | 0              |
|                 |          | 2.2      | 4                 | faint odor                                | 0.7            |
| SB-334          | DP       | 4        | 8                 | NOI                                       | 0              |
|                 |          | 8        | 8.4               | faint odor                                | 0.5            |
|                 |          | 8.4      | 12                |   | 0.3            |
|                 |          |          |                   | NOI                                       |                |
| GD 225          | ***      | 0        | 5                 | NOI                                       | 0              |
| SB-335          | HSA      | 5        | 6.5               | sheen/strong odor                         | 7.6            |
|                 |          | 6.5      | 27                | NOI                                       | 0              |
| SB-336          | HSA      | 0        | 20                | NOI                                       | 0              |

Table 3.1: Pre-Design Soil Investigation Findings

| Sample Location ID |    |           | Depth     |  | Field Scan<br>PID |
|--------------------|----|-----------|-----------|--|-------------------|
| SB-337             | DP | (ff. hgs) | 20        | NOI                                      | ( <b>ppm</b> )    |
| SD 331             | Di | 0         | 6.9       | NOI                                      | 0                 |
| SB-338             | DP | 6.9       | 11.2      | residual staining/<br>strong odor        | 75.6              |
|                    |    | 11.2      | 16        | NOI                                      | 0                 |
|                    |    | 0         | 4         | residual staining/                       | 4.9               |
| SB-339             | DP |           |           | strong odor                              |                   |
|                    |    | 4         | 8         | NOI                                      | 0                 |
| SB-340             | DP | 0         | 5.5       | sheen/strong odor                        | 2.9               |
| GD 041             | 22 | 5.5       | 8         | NOI                                      | 0                 |
| SB-341             | DP | 0         | 12<br>7.9 | NOI<br>NOI                               | 0                 |
| SB-342             | DP |           |           | residual staining/                       |                   |
| 5D-542             | Di | 7.9       | 8         | fuel odor                                | 0                 |
|                    |    | 0         | 7.8       | NOI DNAPL/residual staining              | 0                 |
| SB-343             | DP | 7.8       | 11.5      | and odor                                 | 19.6              |
|                    |    | 11.5      | 15        | slight odor                              | 2.5               |
|                    |    | 0         | 7.8       | NOI                                      | 0                 |
| SB-344             | DP | 7.8       | 8         | very slight odor<br>(petroleum)          | 0                 |
|                    |    | 8         | 16        | NOI                                      | 0                 |
| SB-600             | DP | 0         | 16        | NOI                                      | 0                 |
| <b>SD</b> 000      | D1 | 0         | 7.9       | NOI                                      | 0                 |
| SB-601             | DP | 7.9       | 14.2      | DNAPL/residual staining and odor         | 9.8               |
|                    |    | 14.2      | 16        | NOI                                      | 0.2               |
|                    |    | 0         | 8         | NOI                                      | 0                 |
| SB-602             | DP | 8         | 9.6       | Sheen and slight odor                    | 3                 |
|                    |    | 9.6       | 16        | NOI                                      | 0                 |
| SB-603             | DP | 0         | 12        | NOI                                      | 0                 |
| SB-604             | DP | 0         | 7         | NOI                                      | 0                 |
| SB-605             | DP | 0         | 4         | NOI                                      | 0                 |
| SD-003             | DI | 4         | 4.5       | Slight odor (gasoline)                   | 0.2               |
|                    |    | 0         | 5.2       | NOI                                      | 0                 |
| SB-606             | DP | 5.2       | 6         | Sheen and slight                         | 0                 |
|                    |    |           | 1.2       | (unknown) odor                           | 0                 |
|                    |    | 6         | 12        | NOI                                      | 0                 |
|                    |    | 0         | 3.1       | NOI<br>Sheen, odor, staining             | 0                 |
| SB-607             | DP | 3.1       | 6.7       | (gasoline-related)                       | 1060              |
| SD-007             | DP | 6.7       | 8         | Slight odor (gasoline)                   | 3.5               |
|                    |    | 8         | 12        | NA                                       | NA                |
|                    |    | 0         | 2.1       | NOI                                      | 0                 |
|                    |    |           |           | Sheen, odor, staining                    |                   |
| SB-608             | DP | 2.1       | 8         | (gasoline-related)                       | 350               |
|                    |    | 8         | 16        | Slight odor (gasoline)                   | 15.3              |
|                    |    | 0         | 2.6       | NOI                                      | 0                 |
| SB-609             | DP | 2.6       | 8         | Sheen, odor, staining (gasoline-related) | 932               |
|                    |    | 8         | 12        | Slight odor (gasoline)                   | 6                 |
| SB-610             | DP | 0         | 10        | NOI                                      | 0                 |
|                    |    | 0         | 2         | NOI                                      | 0                 |
| SB-611             | DP | 2         | 8         | Sheen, odor, staining (gasoline-related) | 1350              |
|                    |    | 8         | 10        | Odor (gasoline)                          | 14.7              |

**Table 3.1: Pre-Design Soil Investigation Findings** 

| Sample Location ID | Sampling<br>Method | Top Depth (ft.bgs) | Bottom Depth (ft bgs) | Visual<br>MGP Description Type                    | Field Scan<br>PID<br>(ppm) |
|--------------------|--------------------|--------------------|-----------------------|---|----------------------------|
|                    |                    | 0                  | 3.6                   | NOI   | 0                          |
| SB-612             | DP                 | 3.6                | 4.5                   | Slight odor                                       | 4.6                        |
|                    |                    | 4.5                | 10                    | NOI   | 0                          |
| SB-613             | DP                 | 0                  | 12                    | NOI   | 0                          |
| SB-614             | DP                 | 0                  | 12                    | NOI - slight PID response<br>at 3.0' bgs, no odor | 1.1                        |
| SB-615             | DP                 | 0                  | 12                    | NOI   | 0                          |
| HB-401             | HB                 | 0                  | 4                     | NOI   | 0                          |
|                    |                    | 0                  | 1.8                   | NOI   | 0                          |
| HB-402             | HB                 | 1.8                | 2                     | slight odor                                       | 0                          |
|                    |                    | 2                  | 4                     | NOI   | 0                          |
| HD 402             | IID                | 0                  | 5.8                   | NOI   | 0                          |
| HB-403             | HB                 | 5.8                | 6                     | slight odor                                       | 0                          |
| HD 404             | IID                | 0                  | 1.5                   | slight odor                                       | 1.1                        |
| HB-404             | HB                 | 1.5                | 4                     | NOI   | 0                          |
| HB-405             | НВ                 | 0                  | 4                     | NOI   | 0                          |
| HB-406             | НВ                 | 0                  | 2                     | DNAPL/residual staining and odor                  | 948                        |
|                    |                    | 0                  | 2                     | NOI   | 0                          |
| HB-407             | HB                 | 2                  | 2.3                   | slight odor                                       | 0.2                        |
|                    |                    | 2.3                | 4.5                   | NOI   | 0                          |
| HB-408             | НВ                 | 0                  | 4                     | NOI   | 0                          |
| HB-409             | НВ                 | 0                  | 1                     | residual staining and odor                        | NM                         |
| SB-501             | Barge RW           | 0                  | 42                    | NOI   | 0                          |
| SB-502             | Barge RW           | 0                  | 42                    | NOI   | 0                          |
| SB-503             | Barge RW           | 0                  | 42                    | NOI   | 0                          |
| SB-504             | Barge RW           | 0                  | 37                    | NOI   | 0                          |
| SB-505             | Barge RW           | 0                  | 62                    | NOI   | 0                          |
| SB-506             | Barge RW           | 0                  | 42                    | NOI   | 0                          |

Sampling method: DP = Direct Push

HSA = Hollow Stem Auger HB = Hand Boring

Barge RW = Barge-mounted Rotary Wash

ft bgs - feet below ground surface

DNAPL - Dense Non-Aqueous Phase Liquid

residual/stain/odor - visual evidence of coal tar impact but no product observed

NOI - no observable impact

=Sample located in interpreted area of MGP-impacts =Sample located in interpreted area of gasoline-impacts

Blank cell indicates that sample was not evaluated for that parameter.

PAH = polyaromatic hydrocarbons

BTEX compounds = benzene, toluene, ethylbenzene and xylene

Results shown in micrograms per kilogram

NM = not measured

ND = compound not detected above the reporting limit

Table 3.2: Sediment t(34) PAH Results

|                              |         |           | Media               | SED                  | SED             | SED              |
|------------------------------|---------|-----------|---------------------|----------------------|-----------------|------------------|
|                              |         | Τ         |                     | SED<br>HB-403        | HB-406          | SED<br>HB-409    |
|                              |         |           | ation Name          |                      |                 |                  |
|                              |         |           | Sample ID           | 516008HB40303        | 5160008HB40602  | 516008HB40901    |
|                              |         | r ieia S  | ample Date          | 11/7/2016<br>FS      | 11/7/2016<br>FS | 11/11/2016<br>FS |
| Param Name                   | Units   | Closs P S | QC Code<br>GV Range | rs                   | r <sub>2</sub>  | r5               |
| 1-Methylnaphthalene          | MG/KG   | Class B S | G v Kange           | 0.0033 J             | 11              | 2                |
| 2-Methylnaphthalene          | MG/KG   |           |                     | 0.0058 J             | 17              | 0.29             |
| Acenaphthene                 | MG/KG   | 4         | 35                  | 0.0037 J             | 32              | 6.7              |
| Acenaphthylene               | MG/KG   | 4         | 35                  | 0.0094 U             | 4.5             | 0.41             |
| Anthracene                   | MG/KG   | 4         | 35                  | 0.0094 U             | 32              | 3.1              |
| Benzo(a)anthracene           | MG/KG   | 4         | 35                  | 0.0094 U             | 27              | 2.8              |
| Benzo(a)pyrene               | MG/KG   | 4         | 35                  | 0.0029 J             | 26              | 4.1              |
| Benzo(b)fluoranthene         | MG/KG   | 4         | 35                  | 0.0025 J<br>0.0094 U | 12              | 1.9              |
| Benzo(e)pyrene               | MG/KG   | -         | 33                  | 0.0039 J             | 13              | 2.3              |
| Benzo(ghi)perylene           | MG/KG   | 4         | 35                  | 0.0032 J             | 11              | 2.3              |
| Benzo(k)fluoranthene         | MG/KG   | 4         | 35                  | 0.0094 UJ            | 17 J            | 2.5 J            |
| C1 Chrysenes                 | MG/KG   | _         | 33                  | 0.0094 U             | 17 J            | 1.7 J            |
| C1-Fluoranthenes/Pyrenes     | MG/KG   |           |                     | 0.0094 U             | 76 J            | 8.8 J            |
| C1-Fluorenes                 | MG/KG   |           |                     | 0.0094 U             | 23 J            | 1.3 J            |
| C1-Phenanthrenes/Anthracenes | MG/KG   |           |                     | 0.0094 U             | 72 J            | 5 J              |
| C2 Chrysenes                 | MG/KG   |           |                     | 0.0094 U             | 3.5 J           | 0.61 J           |
| C2-Fluorenes                 | MG/KG   |           |                     | 0.0094 U             | 16 J            | 1 J              |
| C2-Naphthalenes              | MG/KG   |           |                     | 0.0094 U             | 130 J           | 8.3 J            |
| C2-Phenanthrenes/Anthracenes | MG/KG   |           |                     | 0.0094 U             | 32 J            | 2.8 J            |
| C3 Chrysenes                 | MG/KG   |           |                     | 0.0094 U             | <b>0.97</b> J   | 0.13 J           |
| C3-Fluorenes                 | MG/KG   |           |                     | 0.0094 U             | 4 J             | 0.46 J           |
| C3-Naphthalenes              | MG/KG   |           |                     | 0.0094 U             | 70 J            | 4.4 J            |
| C3-Phenanthrenes/Anthracenes | MG/KG   |           |                     | 0.0094 U             | 11 J            | 1.1 J            |
| C4 Chrysenes                 | MG/KG   |           |                     | 0.0094 U             | 0.34 J          | 0.086 U          |
| C4-Naphthalenes              | MG/KG   |           |                     | 0.0094 U             | 26 J            | 2 J              |
| C4-Phenanthrenes/Anthracenes | MG/KG   |           |                     | 0.0094 U             | 2.1 J           | 0.2 Ј            |
| Chrysene                     | MG/KG   | 4         | 35                  | 0.0023 J             | 24              | 2.9              |
| Dibenz(a,h)anthracene        | MG/KG   | 4         | 35                  | 0.0094 U             | 3.1             | 0.5              |
| Fluoranthene                 | MG/KG   | 4         | 35                  | 0.0094 U             | 82              | 6.2              |
| Fluorene                     | MG/KG   | 4         | 35                  | 0.0094 U             | 27              | 3.2              |
| Indeno(1,2,3-cd)pyrene       | MG/KG   | 4         | 35                  | 0.0023 Ј             | 8.8             | 1.7              |
| Naphthalene                  | MG/KG   | 4         | 35                  | 0.016                | 0.48            | 1.8              |
| Perylene                     | MG/KG   |           |                     | 0.3                  | 3.8             | 0.52             |
| Phenanthrene                 | MG/KG   | 4         | 35                  | 0.0094 U             | 110             | 9.1              |
| Pyrene                       | MG/KG   | 4         | 35                  | 0.0094 U             | 67              | 5.6              |
| Percent Solids               | PERCENT |           |                     | 70.9                 | 69.7            | 79.3             |
| Total PAHs                   | 1       | 1         | '                   | 0.3434               | 1007.59         | 97.42            |

FS=Field Sample

U=Target analyte is not detected above the reported detection limit

J=Concentration is estimated based on general procedures in USEPA validation guidelines and the judgement of project chemist

UJ=Target analyte is not detected and value is estimated

Results reported in milligrams per kilogram

Orange highlighted cell exceeds Class A SGV (i.e., is within the Class B SGV range)

Red highlighted cell exceeds the Class A and Class B SGV (i.e., meets the definition of Class C SGV)

Table 3.3: Soil t(34) PAH Results

|                              |               |      | Madia   | COII          |
|------------------------------|---------------|------|---------|---------------|
|                              |               |      | Media   | SOIL          |
|                              |               |      | ocation |               |
|                              |               |      | nple ID | 516008SB33012 |
|                              |               | _    | le Date |               |
| D N                          | <b>T</b> T *4 | -    | C Code  | FS            |
| Param Name                   | Units         | Res  | Eco     | 1.1           |
| 1-Methylnaphthalene          | MG/KG         |      |         | 11            |
| 2-Methylnaphthalene          | MG/KG         | 100  | 20      | 18            |
| Acenaphthene                 | MG/KG         | 100  | 20      | 12            |
| Acenaphthylene               | MG/KG         | 100  |         | 1.1           |
| Anthracene                   | MG/KG         | 100  |         | 10            |
| Benzo(a)anthracene           | MG/KG         | 1    | _       | 4.9           |
| Benzo(a)pyrene               | MG/KG         | 1    | 2.6     | 4             |
| Benzo(b)fluoranthene         | MG/KG         | 1    |         | 4.2           |
| Benzo(e)pyrene               | MG/KG         |      |         | 4.3           |
| Benzo(ghi)perylene           | MG/KG         | 100  |         | 3.8           |
| Benzo(k)fluoranthene         | MG/KG         | 1    |         | 3.2 J         |
| C1 Chrysenes                 | MG/KG         |      |         | 4.7 J         |
| C1-Fluoranthenes/Pyrenes     | MG/KG         |      |         | 39 J          |
| C1-Fluorenes                 | MG/KG         |      |         | 8.5 J         |
| C1-Phenanthrenes/Anthracenes | MG/KG         |      |         | 31 J          |
| C2 Chrysenes                 | MG/KG         |      |         | 1.4 J         |
| C2-Fluorenes                 | MG/KG         |      |         | 6.1 J         |
| C2-Naphthalenes              | MG/KG         |      |         | 67 J          |
| C2-Phenanthrenes/Anthracenes | MG/KG         |      |         | 14 J          |
| C3 Chrysenes                 | MG/KG         |      |         | 0.3 J         |
| C3-Fluorenes                 | MG/KG         |      |         | 2.2 J         |
| C3-Naphthalenes              | MG/KG         |      |         | 40 J          |
| C3-Phenanthrenes/Anthracenes | MG/KG         |      |         | 5 J           |
| C4-Naphthalenes              | MG/KG         |      |         | 16 J          |
| C4-Phenanthrenes/Anthracenes | MG/KG         |      |         | 1.3 J         |
| Chrysene                     | MG/KG         | 1    |         | 5.4           |
| Dibenz(a,h)anthracene        | MG/KG         | 0.33 |         | 0.94          |
| Fluoranthene                 | MG/KG         | 100  |         | 12            |
| Fluorene                     | MG/KG         | 100  | 30      | 7.2           |
| Indeno(1,2,3-cd)pyrene       | MG/KG         | 0.5  |         | 3.1           |
| Naphthalene                  | MG/KG         | 100  |         | 11            |
| Perylene                     | MG/KG         |      |         | 1.3           |
| Phenanthrene                 | MG/KG         | 100  |         | 26            |
| Pyrene                       | MG/KG         | 100  |         | 13            |
| Percent Solids               | PERCENT       |      |         | 67.1          |
| Total PAHs                   |               | 1    |         | 392.94        |

Results reported in milligrams per kilogram

J=Concentration is estimated based on general procedures in USEPA validation guidelines and the judgement of project chemist

Red highlighted cell exceeds the Restricted Residential Use SCO and the Protection of Ecological Resources (PER) SCO  $\,$ 

Table 3.4: Soil VOC, SVOC, and Petroleum Hydrocarbon Fingerprint Results

|                |                        |       |     |     | SOIL<br>SB-601<br>516008SB60110<br>3/29/2017<br>9 - 10 | SOIL<br>SB-601<br>516008SB60115<br>3/29/2017<br>14 - 15 | SOIL<br>SB-602<br>516008SB60210<br>3/29/2017<br>9 - 10 | SOIL<br>SB-606<br>516008SB60606<br>3/29/2017<br>5 - 6 | SOIL<br>SB-607<br>516008SB60704<br>3/29/2017<br>3 - 4 | SOIL<br>SB-611<br>516008SB61105<br>4/4/2017<br>4 - 5 |
|----------------|------------------------|-------|-----|-----|--|---|--|---|---|--|
|                |                        |       |     |     | 9 - 10   | 14 - 15   | 9 - 10   | 3-0   | 3 - 4   | 4 - 3  |
| Class          | Parameter              | Units | Res | Eco |  |   |  |   |   |  |
| VOCs           | 1,2,4-Trimethylbenzene | MG/KG | 52  |     |  |   |  |   |   | 150  |
| VOCs           | 1,3,5-Trimethylbenzene | MG/KG | 52  |     |  |   |  |   |   | 52   |
| VOCs           | 4-iso-Propyltoluene    | MG/KG |     |     |  |   |  |   |   | 3.3 J  |
| VOCs           | Ethylbenzene           | MG/KG | 41  |     |  |   |  |   |   | 31   |
| VOCs           | Isopropylbenzene       | MG/KG |     |     |  |   |  |   |   | 6.2  |
| VOCs           | Methyl cyclohexane     | MG/KG |     |     |  |   |  |   |   | 63   |
| VOCs           | n-Butylbenzene         | MG/KG | 100 |     |  |   |  |   |   | 18   |
| VOCs           | Propylbenzene          | MG/KG | 100 |     |  |   |  |   |   | 23   |
| VOCs           | sec-Butylbenzene       | MG/KG | 100 |     |  |   |  |   |   | 3.6 J  |
| VOCs           | Toluene                | MG/KG | 100 | 36  |  |   |  |   |   | 1.5 J  |
| VOCs           | Xylenes, Total         | MG/KG | 100 |     |  |   |  |   |   | 170  |
| SVOCs          | 2-Methylnaphthalene    | MG/KG |     |     |  |   |  |   |   | 7.2  |
| SVOCs          | Acenaphthene           | MG/KG | 100 | 20  | 440  | 24  | 0.31 J   | 13  | 5.1 U   | 2 U  |
| SVOCs          | Acenaphthylene         | MG/KG | 100 |     | 33 J   | 2 J   | 0.95 U   | 1.8 J   | 5.1 U   | 2 U  |
| SVOCs          | Anthracene             | MG/KG | 100 |     | 250  | 15  | 0.29 J   | 15  | 5.1 U   | 2 U  |
| SVOCs          | Benzo(a)anthracene     | MG/KG | 1   |     | 160  | 8.4   | 0.29 J   | 11 J  | <b>5.1</b> U  | 0.52 J   |
| SVOCs          | Benzo(a)pyrene         | MG/KG | 1   | 2   | 140  | 7.7   | 0.29 J   | 9.6 J   | <b>5.1</b> U  | 0.58 J   |
| SVOCs          | Benzo(b)fluoranthene   | MG/KG | 1   |     | 140 J  | 5.9   | 0.26 J   | 12 J  | 5.1 U   | 0.59 J   |
| SVOCs          | Benzo(ghi)perylene     | MG/KG | 100 |     | 78 J   | 4.2   | 0.18 J   | 6.2 J   | 5.1 U   | 0.38 J   |
| SVOCs          | Benzo(k)fluoranthene   | MG/KG | 3   |     | 110 UJ   | 2.1 J   | 0.95 U   | 12 UJ   | <b>5.1</b> U  | 0.38 J   |
| SVOCs          | Chrysene               | MG/KG | 3   |     | 140  | 8.6   | 0.29 J   | 12  | <b>5.1</b> U  | 0.57 J   |
| SVOCs          | Fluoranthene           | MG/KG | 100 |     | 410  | 22  | 0.59 J   | 36  | 5.1 U   | 0.91 J   |
| SVOCs          | Fluorene               | MG/KG | 100 | 30  | 230  | 14  | 0.24 J   | 15  | 5.1 U   | 2 U  |
| SVOCs          | Indeno(1,2,3-cd)pyrene | MG/KG | 0   |     | 48 J   | 2.7 J   | 0.12 J   | 4.2 J   | 5.1 U   | 0.36 J   |
| SVOCs          | Naphthalene            | MG/KG | 100 |     | 430  | 20  | 0.95 U   | 12 U  | 2.1 J   | 6.7  |
| SVOCs          | Phenanthrene           | MG/KG | 100 |     | 890  | 53  | 1.1  | 80  | 5.1 U   | 0.72 J   |
| SVOCs          | Pyrene                 | MG/KG | 100 |     | 520  | 30  | 0.85 J   | 44  | 5.1 U   | 0.82 J   |
| Hydrocarbon FP | Gasoline               | MG/KG |     |     |  |   |  |   | 5500  | 1500   |
| Hydrocarbon FP | Motor Oil              | MG/KG |     |     |  |   |  |   | 1600  | 970  |

Notes:
Results reported in milligrams per kilogram
U=Target analyte is not detected above the reported detection limit

J=Concentration is estimated based on general procedures in USEPA validation guidelines and the judgement of project chemist

Red highlighted cell exceeds the Restricted Residential Use SCO and the Protection of Ecological Resources (PER) SCO

In SB-607, the Restricted Residential Use SCO and PER SCO concentrations were below the detection limit for select compunds.

**Table 3.5: Waste Predisposal Characterization Results** 

|                       |              | Media       | SOIL             | SOIL             |
|-----------------------|--------------|-------------|------------------|------------------|
|                       |              | Location    | IDW-Brandy Brook | IDW-Pontiac Bay  |
|                       |              | Sample ID   | 516008 COMP-1    | 516008 COMP-2    |
|                       |              | Sample Date | 11/7/2016        | 11/16/2016       |
|                       |              | QC Code     | FS               | FS               |
| Param Name            | Units        | TCLP        | гъ               | гэ               |
| 1,1-Dichloroethene    | MG/L         | 0.7         | 0.01 U           | 0.01 U           |
| 1,2-Dichloroethane    | MG/L<br>MG/L | 0.7         | 0.01 U           | 0.01 U           |
| 2-Butanone            | MG/L<br>MG/L | 200         | 0.01 U<br>0.05 U | 0.01 U<br>0.05 U |
| Benzene               | MG/L<br>MG/L | 0.5         |                  | 0.03 U<br>0.01 U |
| Carbon tetrachloride  | MG/L<br>MG/L | 0.5         | 0.01 U           | 0.01 U           |
| Chlorobenzene         |              |             | 0.01 U<br>0.01 U | 0.01 U           |
| Chloroform            | MG/L         | 100         |                  |                  |
|                       | MG/L         | 6           | 0.01 U           | 0.01 U           |
| Tetrachloroethene     | MG/L         | 0.7         | 0.01 U           | 0.01 U           |
| Trichloroethene       | MG/L         | 0.5         | 0.01 U           | 0.01 U           |
| Vinyl chloride        | MG/L         | 0.2         | 0.01 U           | 0.01 U           |
| 1,4-Dichlorobenzene   | MG/L         | 7.5         | 0.01 U           | 0.01 U           |
| 2,4,5-Trichlorophenol | MG/L         | 400         | 0.005 U          | 0.005 U          |
| 2,4,6-Trichlorophenol | MG/L         | 2           | 0.005 U          | 0.005 U          |
| 2,4-Dinitrotoluene    | MG/L         | 0.13        | 0.005 U          | 0.005 U          |
| 2-Methylphenol        | MG/L         | 200         | 0.005 U          | 0.005 U          |
| 3-Methylphenol        | MG/L         | 200         | 0.01 U           | 0.01 U           |
| 4-Methylphenol        | MG/L         | 200         | 0.01 U           | 0.01 U           |
| Hexachlorobenzene     | MG/L         | 0.13        | 0.005 U          | 0.005 U          |
| Hexachlorobutadiene   | MG/L         | 0.5         | 0.005 U          | 0.005 U          |
| Hexachloroethane      | MG/L         | 3           | 0.005 U          | 0.005 U          |
| Nitrobenzene          | MG/L         | 2           | 0.005 U          | 0.005 U          |
| Pentachlorophenol     | MG/L         | 100         | 0.01 U           | 0.01 U           |
| Pyridine              | MG/L         | 5           | 0.025 U          | 0.025 U          |
| Chlordane             | MG/L         | 0.03        | 0.005 U          | 0.002 U          |
| Endrin                | MG/L         | 0.02        | 0.0005 U         | 0.0002 U         |
| Gamma-BHC/Lindane     | MG/L         | 0.4         | 0.0005 U         | 0.0002 U         |
| Heptachlor            | MG/L         | 0.008       | 0.0005 U         | 0.0002 U         |
| Heptachlor epoxide    | MG/L         |             | 0.0005 U         | 0.0002 U         |
| Methoxychlor          | MG/L         | 10          | 0.0005 U         | 0.0002 U         |
| Toxaphene             | MG/L         | 0.5         | 0.005 U          | 0.002 U          |
| Aroclor-1016          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1221          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1232          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1242          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1248          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1254          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1260          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1262          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Aroclor-1268          | MG/KG        |             | 0.23 U           | 0.38 U           |
| Arsenic               | MG/L         | 5           | 0.015 U          | 0.015 U          |
| Barium                | MG/L         | 100         | 0.18 J           | 0.19 J           |
| Cadmium               | MG/L         | 1           | 0.002 U          | 0.002 U          |
| Chromium              | MG/L         | 5           | 0.02 U ^         | 0.02 U           |
| Lead                  | MG/L         | 5           | 0.02 U           | 0.0085 J         |
| Selenium              | MG/L         | 1           | 0.025 U          | 0.025 U          |
| Silver                | MG/L         | 5           | 0.006 U          | 0.006 U          |
| Mercury               | MG/L         | 0.2         | 0.0002 U         | 0.0002 U         |
| Cyanide, Reactive     | MG/KG        |             | 10 U             | 10 U             |
| Sulfide, Reactive     | MG/KG        |             | 59.9             | 60               |
| Percent Moisture      | PERCENT      |             | 24.3             | 52.2             |
| Percent Solids        | PERCENT      |             | 75.7             | 47.8             |
| Ignitability          | MM/SEC       |             | 2.2 U            | 2.2 U            |
| pН                    | PH UNITS     |             | 5.5 HF           | 6.6 HF           |
| ** .                  |              |             |                  |                  |

Results reported in milligrams per kilogram or milligrams per liter

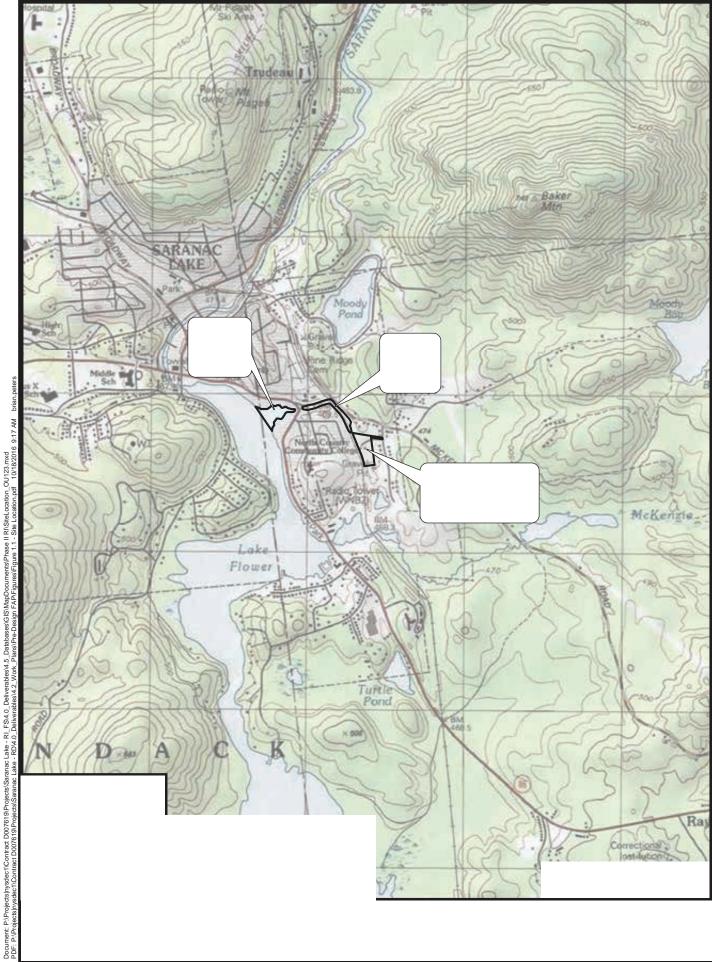
U=Target analyte is not detected above the reported detection limit

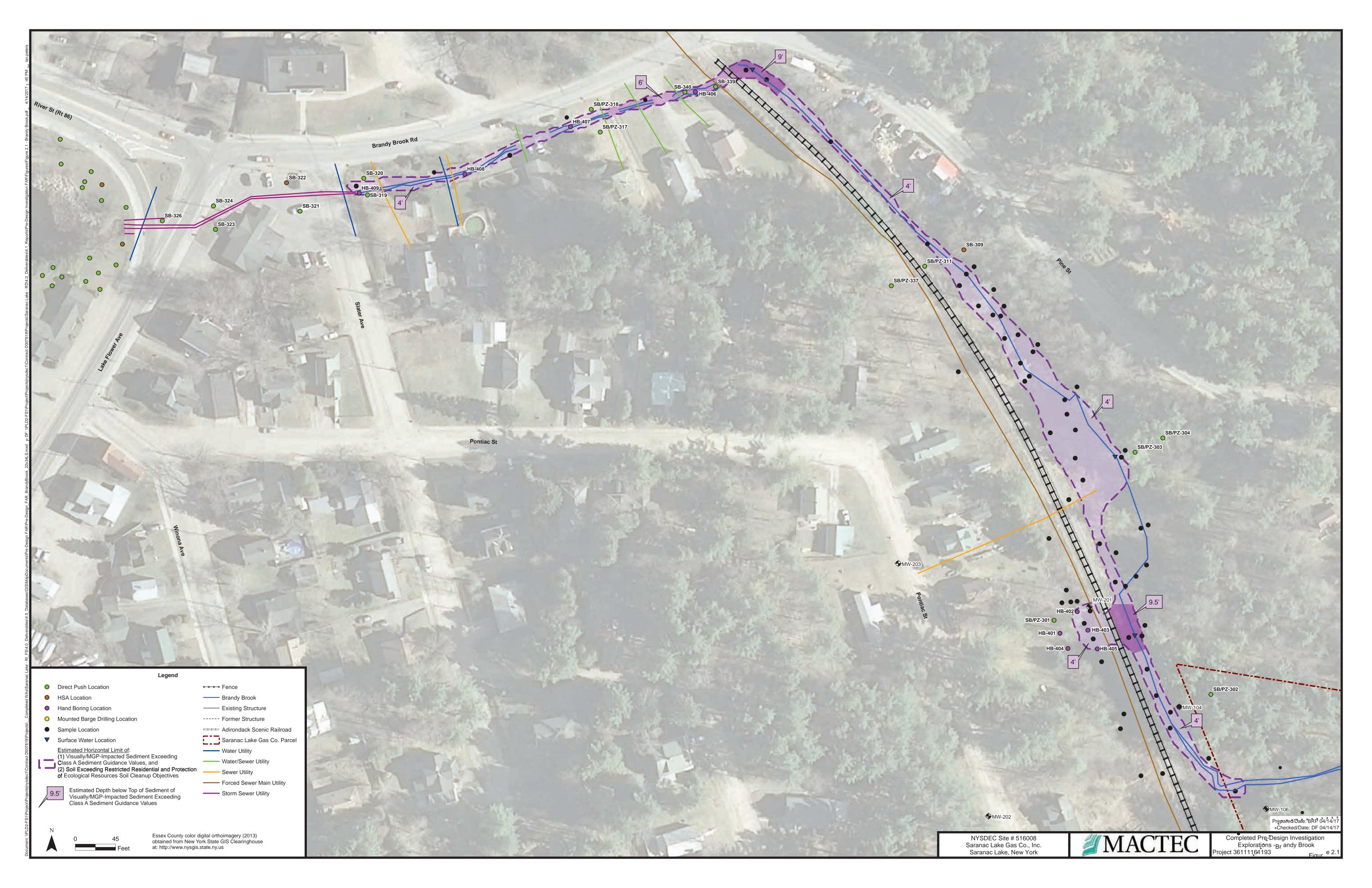
 $<sup>\ \,</sup> J{=}Concentration \ \, is \ \, estimated \ \, based \ \, on \ \, general \ \, procedures \ \, in \ \, USEPA \ \, validation \ \, guidelines \ \, and \ \, the \ \, judgement \ \, of \ \, project \ \, chemist$ 

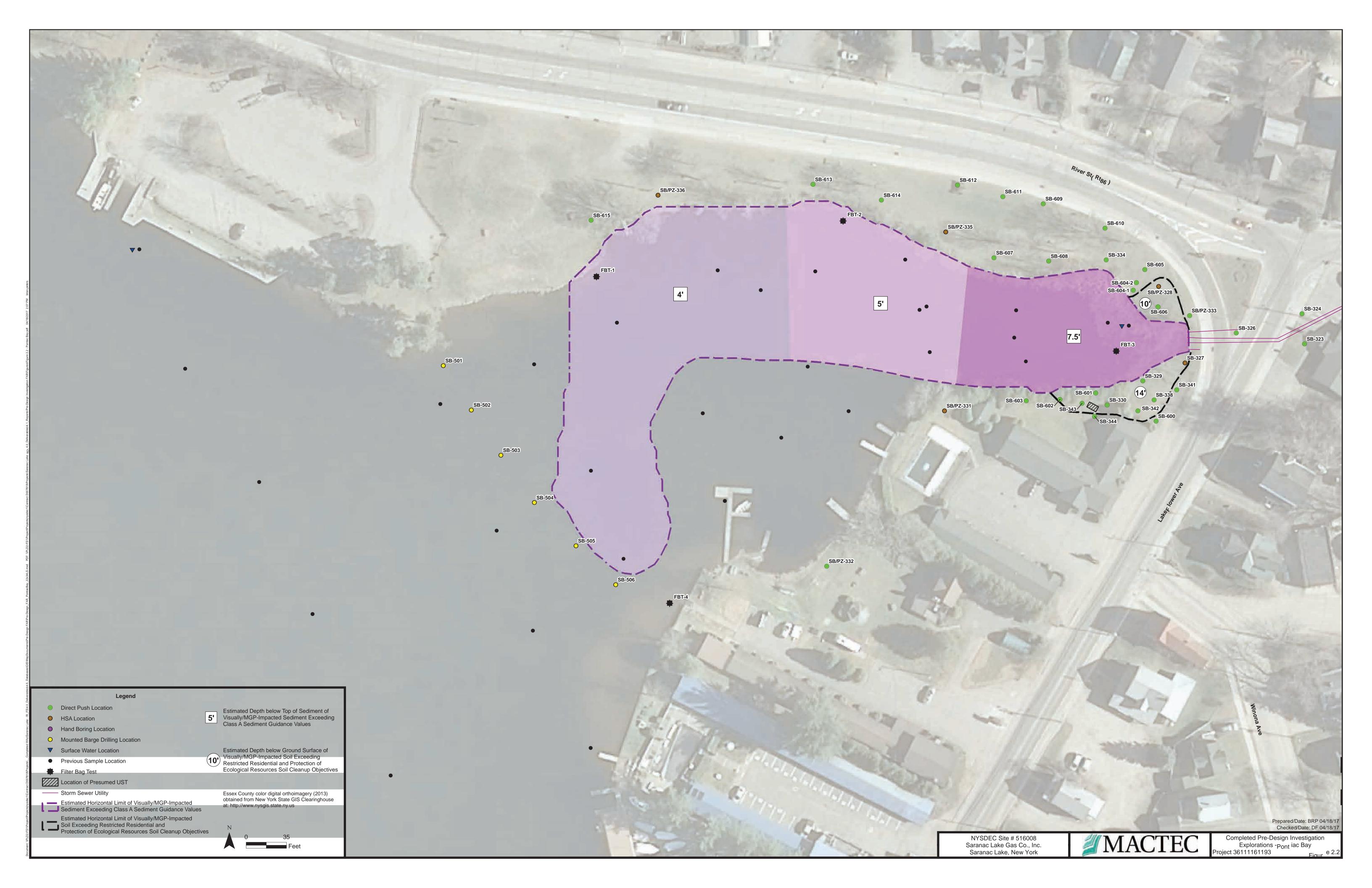
**Table 3.7: Geotechnical Laboratory Testing Results** 

| Boring ID | Samples                      | Soil Description   | Depths (ft) | Grain Size Analysis (ASTM D422) Fines Content (% Finer #200 Sieve) | N    | Direct Shear<br>Formal loads (PS) | F)   | Internal<br>Friction Angle<br>(degrees) | Apparent<br>Cohesion (psf) |
|-----------|------------------------------|--|-------------|--|------|-----------------------------------|------|---|----------------------------|
| SB-501    | combined S-7,<br>S-8 and S-9 | Brown fine SAND; some SILT   | 30, 35, 40  | 35   | 1300 | 1600                              | 1900 | 34                                      | 490                        |
| SB-502    | combined S-4,<br>S-5 and S-6 | Light Brown medium fine SAND; little SILT  | 15, 20, 25  | 20   | 700  | 1000                              | 1300 | 40                                      | 215                        |
| SB-503    | S-2                          | Brown medium fine SAND; trace SILT   | 5           | 6.9  | -    | -                                 | 1    |   |                            |
| 3B-303    | combined S-4,<br>S-5 and S-6 | Light Brown fine SAND;<br>little SILT  | 15, 20, 25  | 13   | 1300 | 1600                              | 1900 | 34                                      | 380                        |
| SB-504    | combined S-2,<br>S-3 and S-4 | Grey and Brown medium fine SAND; little medium GRAVEL                                  | 5, 10, 15   | 16   | 400  | 700                               | 1000 | 46                                      | 190                        |
|           | S-5                          | Light Brown coarse to<br>medium fine SAND; little<br>medium fine GRAVEL;<br>trace SILT | 20          | 6.6  | -    | -                                 | -    | -                                       | -                          |
| SB-505    | S-7                          | Light Brown medium fine SAND; little SILT  | 30          | 17   | -    | -                                 | -    | -                                       | -                          |
|           | S-11                         | Grey coarse to medium<br>fine SAND; some SILT;<br>trace fine GRAVEL                    | 50          | 32   | -    | -                                 | -    | -                                       | -                          |
|           | S-7                          | Brown SILT; some fine SAND   | 30          | 74   | -    | -                                 | -    | -                                       | -                          |
| SB-506    | S-8                          | GREY coarse medium<br>fine GRAVEL; and coarse<br>medium fine SAND; trace<br>SILT       | 35          | 10   | -    | -                                 | 1    | -                                       | -                          |
| SB/PZ-331 | S-7                          | Brown coarse to medium fine SAND; trace SILT   | 15          | 10   | -    | -                                 | -    | -                                       | -                          |
| SB/PZ-335 | S-7                          | Brown medium fine<br>SAND; little SILT; trace<br>fine GRAVEL                           | 15          | 16   | -    | -                                 | -    | -                                       | -                          |

### **FIGURES**







# APPENDIX A NEW YORK LEAK DETECTION UTILITY SURVEY REPORT

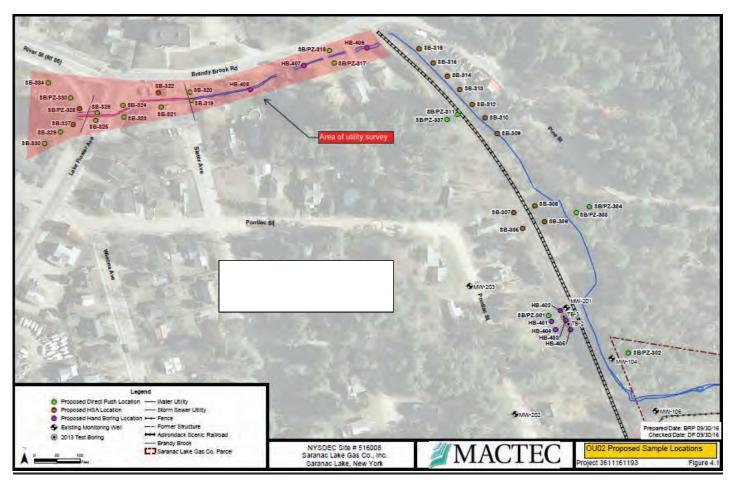
## **NYLD** Infrastructure

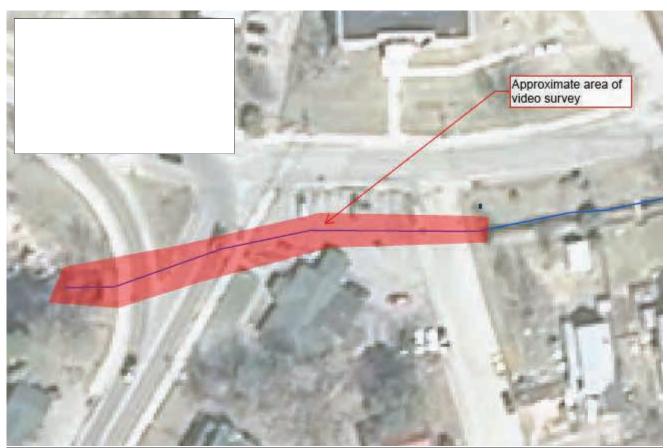
NEW YORK LEAK DETECTION, INC.

| Date: 10/24/16 - 10/28/16   |                             | Tech  | nnician: <u>Zand</u> | <u>der Seaman</u>        |                       |
|---|-----------------------------|---|----------------------|--------------------------|-----------------------|
| Customer: Amec Foster Wheeler                                     |                             |   |                      |                          |                       |
| Site Address: Intersection of Rive                                | r St. & Lak                 | <u>ke Flower Ave. Saranac La</u>                    | ake, NY              |                          |                       |
| Contact Person: Dylan Farrell                                     | Phone: Office (207)775-5401 |   |                      | ne: <u>Cell (207</u>     | )251-3430             |
| Scope of Work: Utility Location a                                 | and Video                   | Inspection of Brandy Broo                           | ı <u>k</u>           |                          |                       |
| Type of Service:  |                             |   |                      |                          |                       |
| Leak Detection  | □ Utility                   | Location/GPR  | ⊠ Vide               | eo Inspection            | า                     |
| ☐ Infrastructure Assessment                                       | ☐ Utility                   | Mapping/AutoCAD                                     |                      |                          |                       |
| Type of Equipment Used  |                             |   |                      |                          |                       |
| Profiler EMP 400  | ⊠ <i>RD</i> 81              | 00  | ☐ Metr               | oTech Vivax vL           | ocPro2                |
| LC2500 Leak Correlator  | ⊠ Noggi                     | in 250 mHz  | ☐ Pos                | ☐ PosiTector UTG G3      |                       |
| S-30 Surveyor   | Nogg                        | in 500 mHz  | ⊠ Via                | leo Inspectio            | n Camera              |
| ⊠ Sonde   | ☐ Conq                      | uest 1000 mHz                                       | ☐ He                 | lium #                   | Bottles               |
| Leica Robotic Total Station                                       | Leica                       | GPS   |                      |                          |                       |
| Marking Used  |                             |   |                      |                          |                       |
|   | ⊠ Flags                     | ;   | ☐ Ch                 | alk                      |                       |
| ☐ Updated existing maps onsite                                    | Other                       | r:<br>  |                      |                          |                       |
| Instructions from Onsite Conta<br>carrying Brandy Brook under two |                             |   |                      |                          |                       |
| Size of Pipe: 24"   |                             |   |                      |                          |                       |
| Ground Cover/Weather Conditi                                      | ons: Pave                   | ment, Soil/ Rain, Snow 20                           | )-35 degr            | <u>ees</u>               |                       |
| Site Access/Safety Training: Or Safety Meting                     | nsite                       | Expiration Date: n/a                                |                      |                          |                       |
| Information Transfer  |                             |   |                      |                          |                       |
|   | : <u>Dylan</u>              | ☐ Hand drawn map (for to office for digital remains |                      | ☐ All mar<br>up by surve | kings picked<br>eyors |

Travel Hours: <u>10/24-3.75 & 10/25-0.25 & 10/26-0.5 & 10/27-0.25 & 10/28-4.0</u> Onsite Hours: <u>10/25-10.0 & 10/26-12.0 & 10/27-9.0 & 10/28-8.0</u>

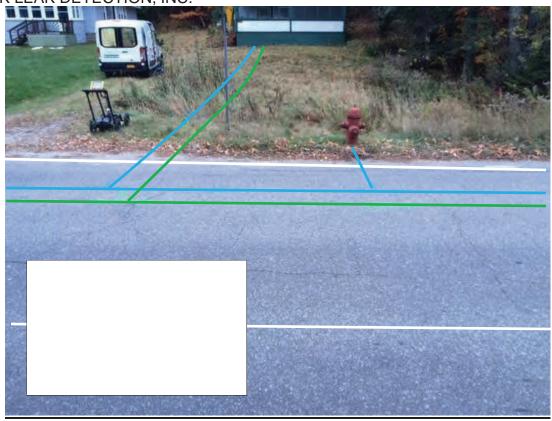
Rev.7-8-14

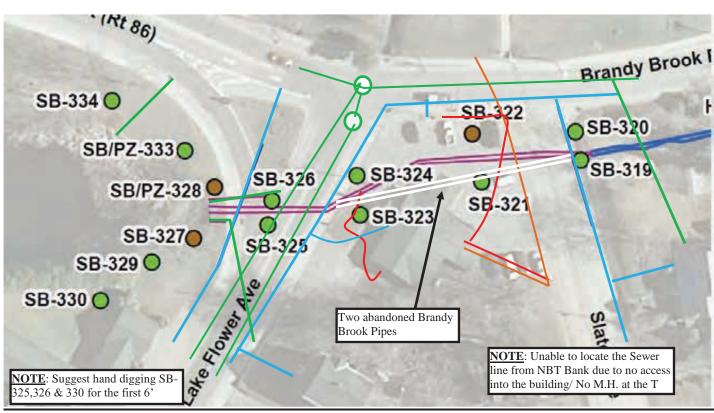




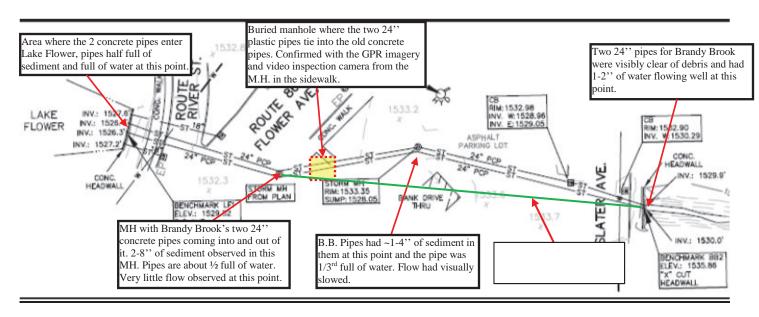




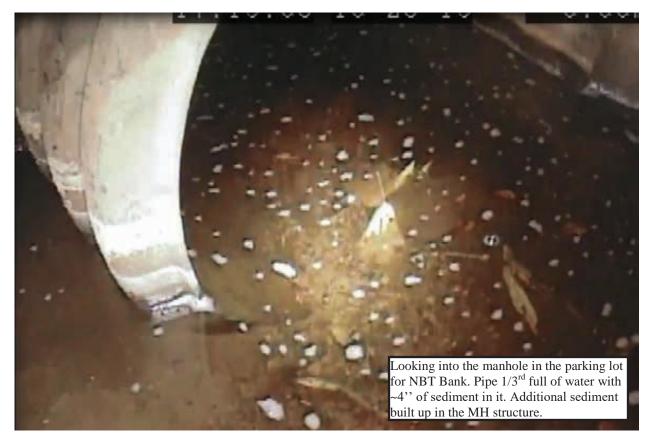




## **NYLD** Infrastructure

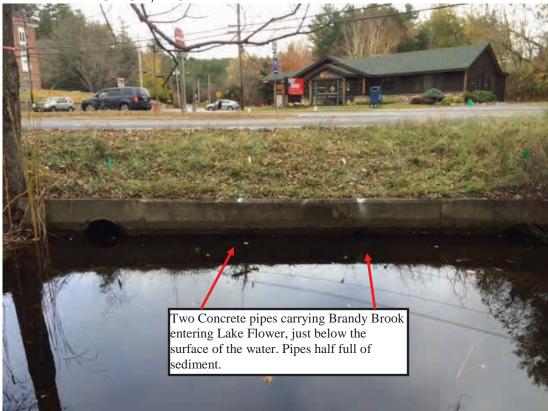










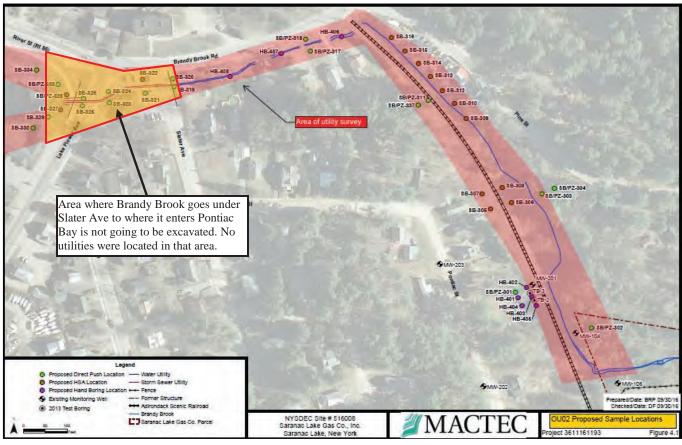


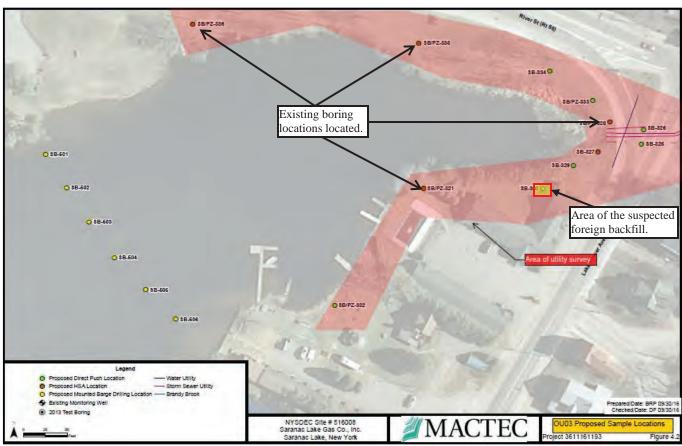
Notes/Testing Results: Upon arrival, established the boring locations with Dylan and established the area of the video inspection. Hooked up to and located all visible utilities in all areas with the RD-8100 in both direct connect and inductive clamp modes to clear for borings. Utilized locatable sonde to locate any storm or sanitary lines that may be in the areas. Scanned these areas on passive power radio mode with the RD to locate any unseen power or communication lines. Scanned in a grid pattern with the GPR's 250 mHz antenna to locate any unknown utilities. All utility locations were marked on the ground with paint and flagged. Due to the amount of sediment in the pipes and the diameter, unable to visually inspect the entire line. Attaching another rigid cable to the camera's line and a floatation device allowed for some additional pipe to be inspected. The lack of pitch on the pipes from where the stream goes underground to where it enters the lake causes sediment build up in the pipes and manholes.



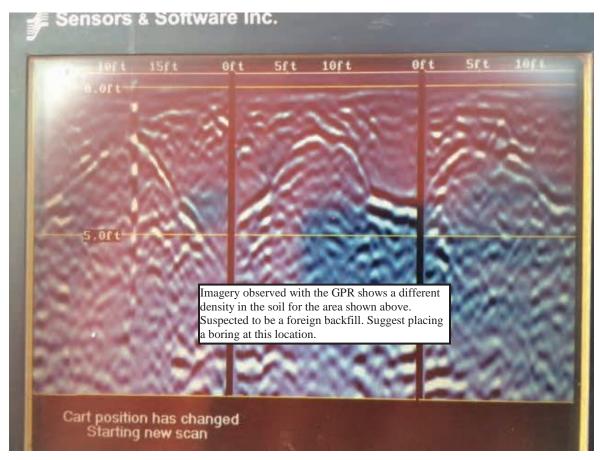
## **NYLD** Infrastructure

| Date: 3/28/2017-3/30/2017   |                 |   | Technician:          | Zander Seaman                |  |  |
|---|-----------------|---|----------------------|------------------------------|--|--|
| Customer: Amec Foster Wheeler                                       | •<br>•          |   |                      |                              |  |  |
| Site Address: Brandy Brook. Rive                                    | er St & Lak     | e Flower Ave. Saranac La                          | ake, NY              |                              |  |  |
| Contact Person: Dylan Farrell                                       | Phone           | : Cell: (207)251-3430                             | Phone:               | Phone:                       |  |  |
| Scope of Work: Clear for an ant                                     | icipated ex     | cavation of Brandy Brook                          | •                    |                              |  |  |
| Type of Service:  |                 |   |                      |                              |  |  |
| Leak Detection  | □ Utility       | Location/GPR                                      | ☐ Video Inspe        | ection                       |  |  |
| ☐ Infrastructure Assessment   | ☐ Utility       | Mapping/AutoCAD                                   |                      |                              |  |  |
| Type of Equipment Used  |                 |   |                      |                              |  |  |
| Profiler EMP 400  | ⊠ <i>RD81</i>   | 00  | ☐ MetroTech Viv      | ax vLocPro2                  |  |  |
| LC2500 Leak Correlator  | ⊠ Nogg          | in 250 mHz  | ☐ PosiTector         | ☐ PosiTector UTG G3          |  |  |
| ☐ S-30 Surveyor   | ☐ Nogg          | jin 500 mHz                                       | ☐ Video Insp         | ection Camera                |  |  |
| ⊠ Sonde   | ☐ Cond          | uest 1000 mHz                                     | ☐ Helium #           | Bottles                      |  |  |
| Leica Robotic Total Station   | ☐ Leica         | GPS   |                      |                              |  |  |
| Marking Used  |                 |   |                      |                              |  |  |
|   | ⊠ Flags         | 3   | ☐ Chalk              |                              |  |  |
| ☐ Updated existing maps onsite                                      | Othe            | r:  |                      |                              |  |  |
| Instructions from Onsite Contarions remove contaminated soil. Locat |                 |   | ticipated excavation | on of brandy brook to        |  |  |
| Size of Pipe: n/a   |                 |   |                      |                              |  |  |
| <b>Ground Cover/Weather Condit</b>                                  | ions: Snov      | v, Soil, Pavement/ Snow,                          | Rain, 35 degrees     |                              |  |  |
| Site Access/Safety Training: n/                                     | ′a              | Expiration Date: n/a                              |                      |                              |  |  |
| Information Transfer  |                 |   |                      |                              |  |  |
| ☐ Information relayed on site to                                    | o: <u>Dylan</u> | ☐ Hand drawn map (f<br>to office for digital rema |                      | markings picked<br>surveyors |  |  |













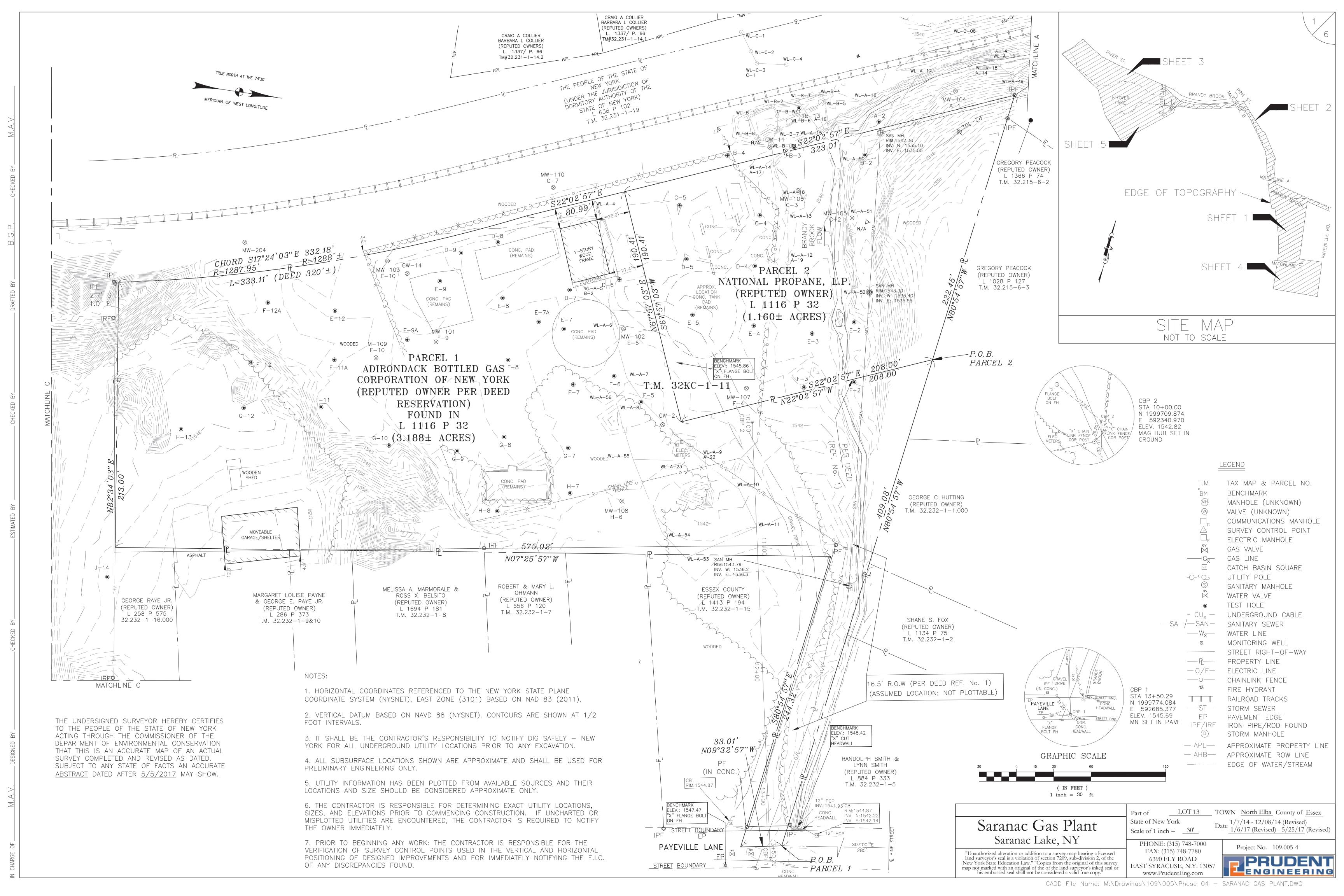
Key

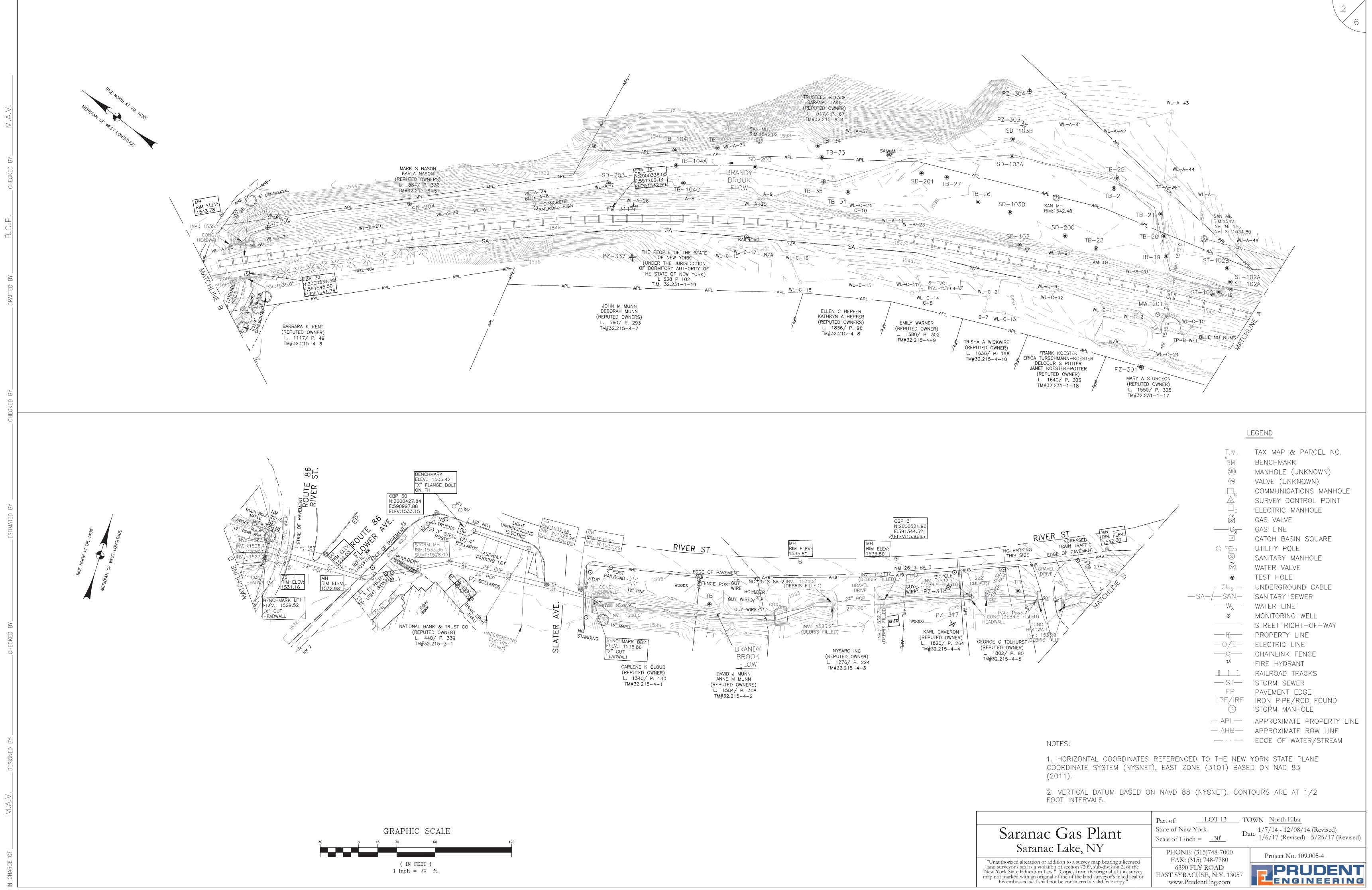
| Blue   | Water              |
|--------|--------------------|
| Red    | Power              |
| Orange | Communications     |
| Yellow | Gas/Flammable Fuel |
| White  | Unknown            |
| Green  | Storm/Sanitary     |

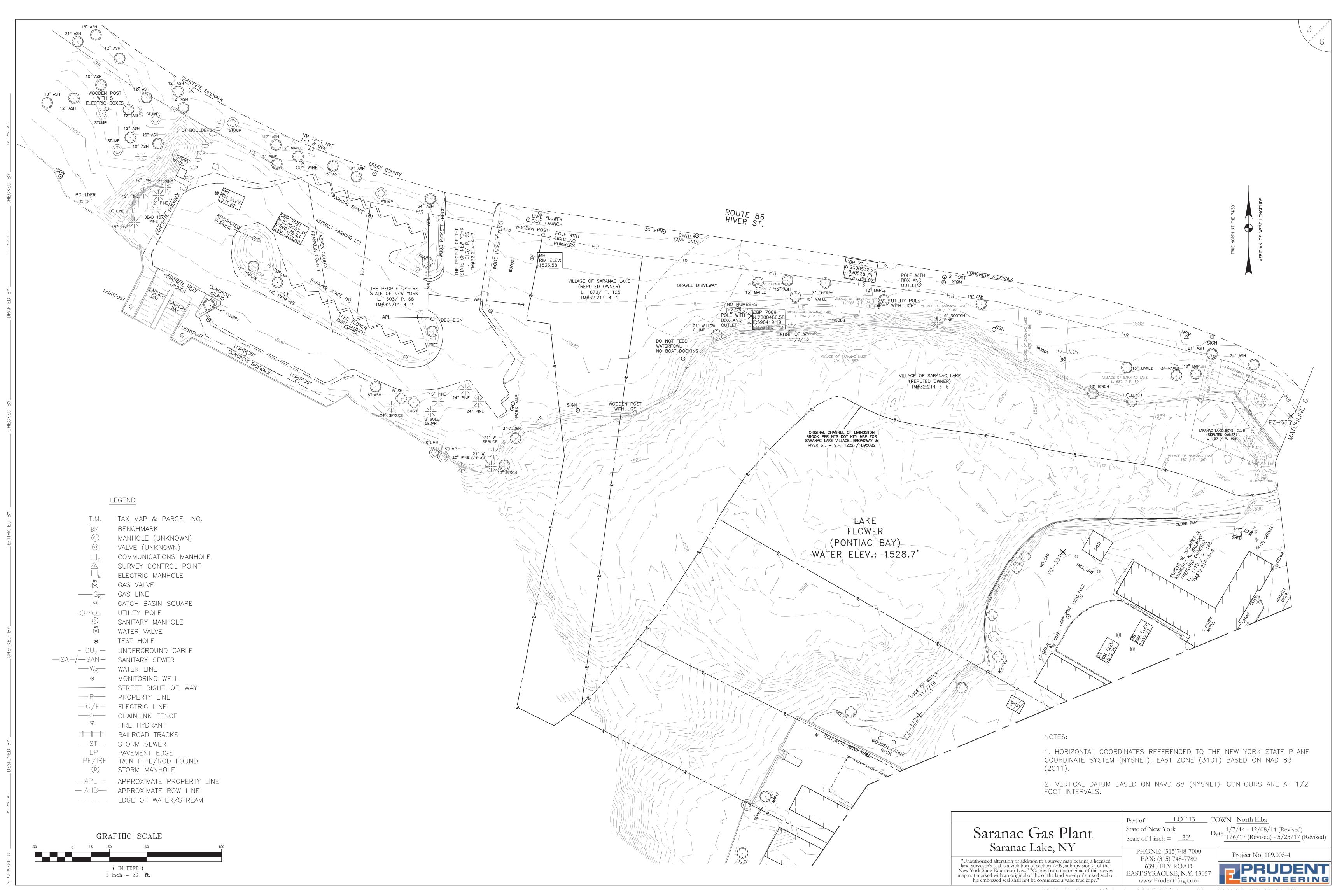
Notes/Testing Results: Utilizing the RD-8100 in both direct connect and inductive clamp modes to locate all visible utilities along Brandy Brook and to all of the private residences along Brandy Brook Ave. Scanned in passive power/ radio mode to locate any unseen live power or communications lines. Scanned in a grid pattern with the GPR's 250 mHz antenna where possible to locate any unknown utilities. Unable to gain access and verify sanitary sewer laterals for #20 & 26 Brandy Brook Ave. Suggest rescanning when there is no snow on the ground and access is gained into the residence. Utilized a Magnawand ID2100 vertically oriented metal detector to locate existing boring locations. All information relayed to Dylan onsite and all utility locations painted and flagged where possible. Utilities to be located by a survey company.

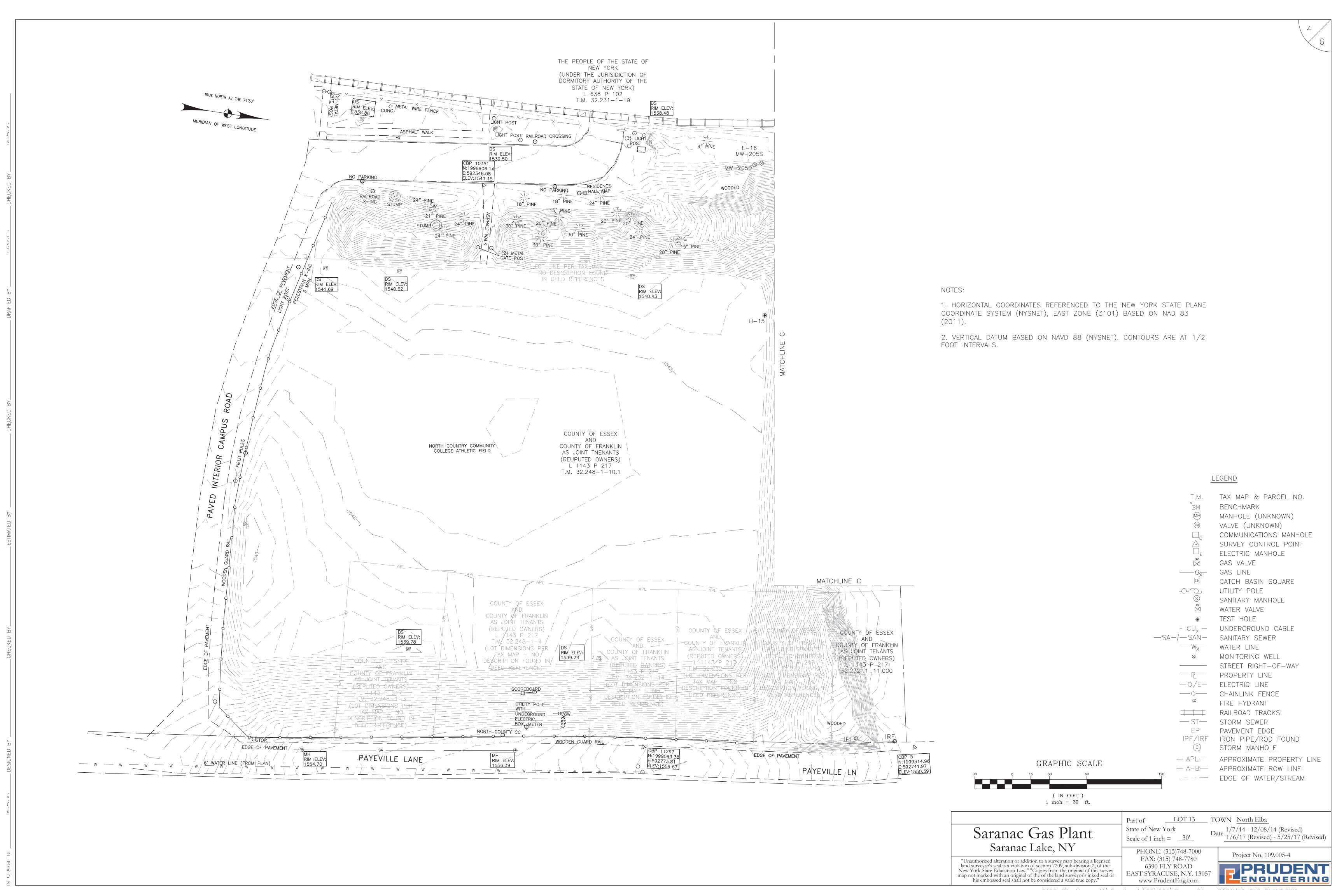
APPENDIX B

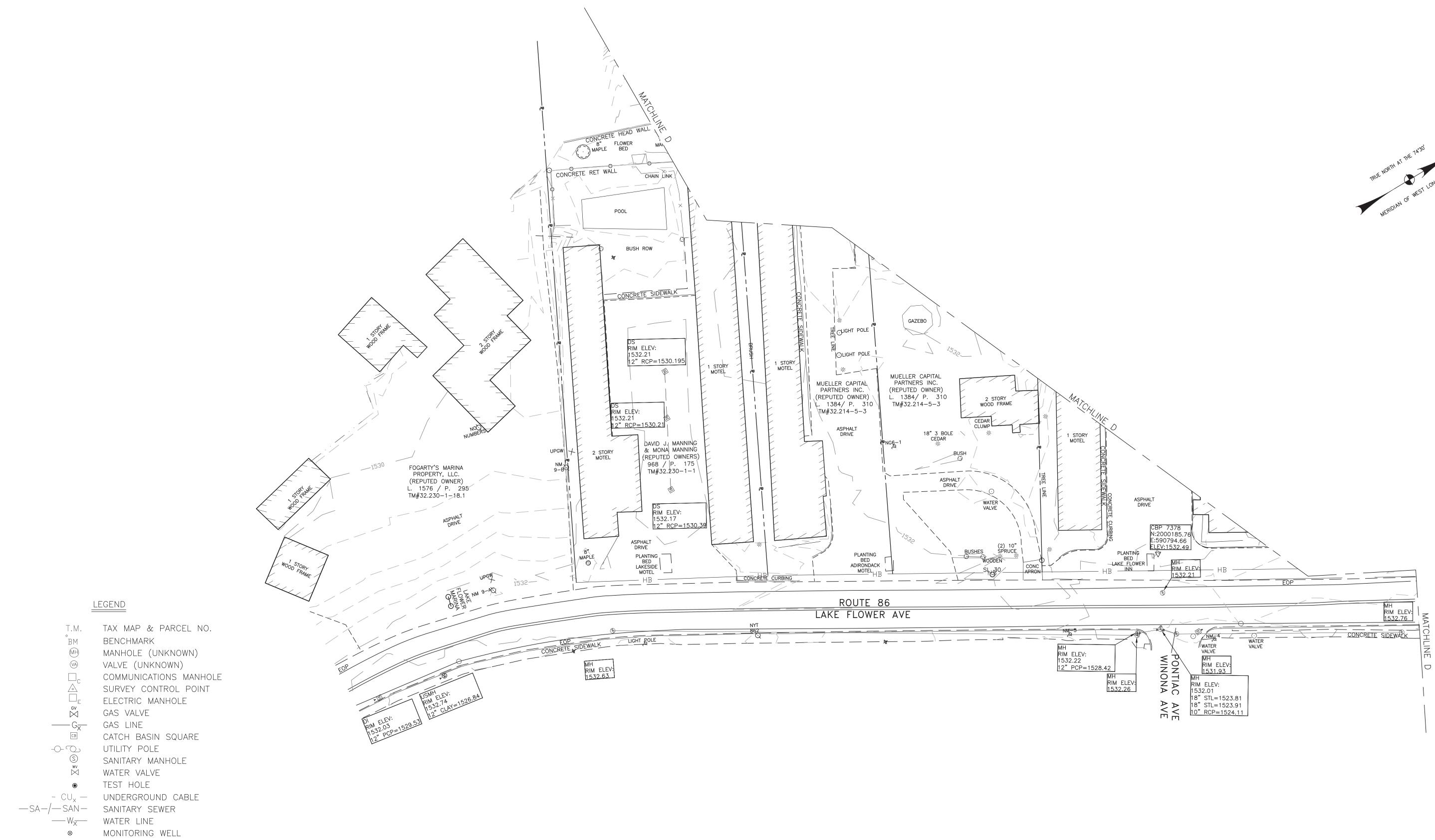
**SITE SURVEY** 











----- STREET RIGHT-OF-WAY PROPERTY LINE

- 0/E- ELECTRIC LINE CHAINLINK FENCE FIRE HYDRANT RAILROAD TRACKS

— ST— STORM SEWER EP PAVEMENT EDGE IPF/IRF IRON PIPE/ROD FOUND STORM MANHOLE

- APL- APPROXIMATE PROPERTY LINE

- AHB- APPROXIMATE ROW LINE — · · — EDGE OF WATER/STREAM

GRAPHIC SCALE

( IN FEET ) 1 inch = 30 ft. NOTES:

1. HORIZONTAL COORDINATES REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (NYSNET), EAST ZONE (3101) BASED ON NAD 83

2. VERTICAL DATUM BASED ON NAVD 88 (NYSNET). CONTOURS ARE AT 1/2 FOOT INTERVALS.

Saranac Gas Plant Saranac Lake, NY

State of New York Scale of 1 inch = 30'

LOT 13 TOWN North Elba 1/7/14 - 12/08/14 (Revised) Date 1/6/17 (Revised) - 5/25/17 (Revised) Project No. 109.005-4

PHONE: (315)748-7000 FAX: (315) 748-7780 6390 FLY ROAD AST SYRACUSE, N.Y. 13057 www.PrudentEng.com

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### NEW DESCRIPTION OF THE SURVEYED PROPERTY

A NEW DESCRIPTION WAS PREPARED WITH BEARINGS REFERENCE TO TRUE NORTH AT THE 74°30' MERIDIAN OF WEST LONGITUDE.

**ALL THAT TRACT OR PARCEL OF LAND**, SITUATE IN THE TOWN OF NORTH ELBA, COUNTY OF ESSEX AND STATE OF NEW YORK, BEING PART OF LOT NUMBER 13, TOWNSHIP 11, OLD MILITARY TRACT, BEING A PORTION OF TAX PARCEL NUMBER 32KC-1-11, AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

### PARCEL 1 - ADIRONDACK BOTTLED GAS CORPORATION OF NEW YORK

**BEGINNING** AT A POINT IN THE CENTER OF PAYEVILLE LANE, SAID POINT BEING DISTANT S 7°00'E, AS MEASURE ALONG THE CENTERLINE OF PAYEVILLE LANE, 280 FEET FROM THE CENTERLINE INTERSECTION OF PINE ST, SAID POINT ALSO BEING THE SOUTHEASTERLY CORNER OF A PARCEL OF LAND CONVEYED TO MARK S. NASON & KARLA NASON BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 884 AT PAGE 333;

THENCE NORTHWESTERLY ALONG SAID SOUTHERLY BOUNDARY OF SAID MARK S. NASON & KARLA NASON, SHANE S. FOX BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1134 AT PAGE 75, GREGORY L. PEACOCK BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1190 AT PAGE 135, AND PARTIALLY ALONG GREGORY L. PEACOCK BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1028 AT PAGE 127 N80°54'57" W A DISTANCE OF 409.08 FEET TO NORTHEASTERLY CORNER OF A PARCEL OF LAND CONVEYED TO NATIONAL PROPANE, L.P. (PARCEL 2) BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1116 AT PAGE 32;

THENCE ALONG SAID EASTERLY AND SOUTHERLY LINE OF SAID PARCEL 2 THE FOLLOWING (2) COURSES AND DISTANCES: 1) SOUTHEASTERLY S 22°02'57" E, A DISTANCE OF 208.00 FEET; 2) SOUTHWESTERLY S 67°57'03" W, A DISTANCE OF 190.41FEET TO A POINT ON THE EASTERLY BOUNDS OF THE PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE DORMITORY AUTHORITY OF THE STATE OF NEW YORK) BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 638 AT PAGE 102;

THENCE SOUTHEASTERLY ALONG THE EASTERLY LINE OF THE PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE DORMITORY AUTHORITY OF THE STATE OF NEW YORK) THE FOLLOWING (2) COURSES AND DISTANCES: 1) S 22°02'57" E A DISTANCE OF 80.99 FEET TO A POINT; 2) ALONG A NON TANGENT CURVE TO THE RIGHT WITH A RADIUS OF 1287.95 FEET A LENGTH OF 333.11 FEET (CHORD S 17°24'03" E, 332.18 FEET) TO A POINT BEING THE NORTHWEST CORNER OF A PARCEL OF LAND CONVEYED TO ESSEX & FRANKLIN COUNTY NEW YORK BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1143 AT PAGE 9273;

THENCE NORTHEASTERLY ALONG SAID NORTHERLY LINE OF ESSEX & FRANKLIN COUNTY NEW YORK N 82°34'03" E A DISTANCE OF 213.00 FEET TO A POINT, BEING THE SOUTHWEST CORNER OF A PARCEL OF LAND CONVEYED TO GEORGE PAYE JR. DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 258 AT PAGE 575;

THENCE NORTHERLY ALONG THE WESTERLY LINE OF SAID GEORGE PAYE JR., MARGARET LOUISE PAYE & GEORGE E. PAYE JR. BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 286 AT PAGE 373, MELISSA A. MARMORALE & ROSS X. BELSITO BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1694 AT PAGE 181, ROBERT & MARY L. OHMANN BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 656 AT PAGE 120, JANICE M. GAUTHIER BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 844 AT PAGE 112, AND ESSEX COUNTY BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1413 AT PAGE 194 N 07°25'57" E A DISTANCE OF 575.02 FEET TO A POINT BEING THE NORTHWEST CORNER OF A PARCEL OF LAND CONVEYED TO SAID ESSEX COUNTY;

THENCE EASTERLY ALONG SAID NORTHERLY LINE OF ESSEX COUNTY NEW YORK N 80°54'57" E A DISTANCE OF 244.32 FEET TO A POINT IN THE CENTER OF SAID PAYEVILLE LANE;

THENCE NORTHERLY ALONG THE SAID CENTERLINE OF PAYEVILLE LANE N 09°32'57" E A DISTANCE OF 33.01 FEET TO THE POINT AND PLACE OF BEGINNING.

## CONTAINING 3.188 ACRES OF LAND, MORE OR LESS.

SUBJECT TO ANY EASEMENTS, RIGHT-OF-WAYS, AND/OR RESTRICTIONS OF RECORD, WHICH MAY AFFECT THIS PROPERTY.

## PARCEL 2 - NATIONAL PROPANE, L.P.

COMMENCING AT A POINT IN THE CENTERLINE OF PAYEVILLE ROAD, SAID POINT BEING THE NORTHEASTERLY CORNER OF A PARCEL OF LAND CONVEYED TO ADIRONDACK BOTTLED GAS CORPORATION OF NEW YORK BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1116 AT PAGE 32 (PARCEL 1) AND THE SOUTHEASTERLY CORNER OF LANDS CONVEYED TO MARK S. NASON & KARLA NASON BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 884 AT PAGE 333;

THENCE NORTHWESTERLY ALONG SAID NORTHERLY LINE OF PARCEL 1 N 80°54'57" W, A DISTANCE OF 409.08 FEET TO THE **POINT OF BEGINNING**, SAID POINT BEING THE NORTHWESTERLY CORNER OF PARCEL 1:

THENCE FROM SAID POINT OF BEGINNING N 80°54'57" W PARTIALLY ALONG THE SOUTHERLY LINE OF A PARCEL OF LAND CONVEYED TO GREGORY PEACOCK. BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1028 AT PAGE 127 AND ALONG OTHER LANDS OF GREGORY PEACOCK BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 1366 AT PAGE 74 A DISTANCE OF 222.45 FEET TO AN IRON PIPE IN THE EASTERLY BOUNDS OF THE PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE DORMITORY AUTHORITY OF THE STATE OF NEW YORK) BY DEED AS RECORDED IN THE ESSEX'S COUNTY CLERK'S OFFICE IN LIEBER OF DEEDS 638 AT PAGE 102;

THENCE SOUTHEASTERLY ALONG THE EASTERLY LINE OF SAID THE PEOPLE OF THE STATE OF NEW YORK (UNDER THE JURISDICTION OF THE DORMITORY AUTHORITY OF THE STATE OF NEW YORK) S 22°02'57" E A DISTANCE OF 323.01 FEET TO A POINT BEING THE NORTHWEST CORNER OF SAID PARCEL 1.

THENCE SOUTHERLY AND EASTERLY LINE OF PARCEL 1 THE FOLLOWING (2) COURSES AND DISTANCES: 1) NORTHEASTERLY N 67°57'03" E, A DISTANCE OF 190.41 FEET; 2) NORTHWESTERLY N 22°02'57" W, A DISTANCE OF 208.00 FEET TO THE POINT AND PLACE OF BEGINNING.

## CONTAINING 1.160 ACRES OF LAND, MORE OR LESS.

SUBJECT TO ANY EASEMENTS, RIGHT-OF-WAYS, AND/OR RESTRICTIONS OF RECORD, WHICH MAY AFFECT THIS PROPERTY.

| SAMPLE LOCATIONS |           |          |                 |                         |             |  |  |
|------------------|-----------|----------|-----------------|-------------------------|-------------|--|--|
| Pnt.             | Northing  | Easting  | Ground<br>Elev. | PVC Riser<br>Pipe Elev. | Desc.       |  |  |
| 1197             | 1999701.4 | 592314.4 | 1542.21         | -                       | MW-107/F-4  |  |  |
| 1198             | 1999700.1 | 592263.7 | 1541.62         | -                       | E-4         |  |  |
| 1199             | 1999694.1 | 592216.1 | 1541.37         | -                       | D-4         |  |  |
| 1200             | 1999692.3 | 592175.3 | 1541.58         | -                       | C-4         |  |  |
| 1201             | 1999659.8 | 592131.4 | 1542.32         | -                       | B-4         |  |  |
| 1205             | 1999627.4 | 592176.5 | 1542.43         | -                       | C-5         |  |  |
| 1206             | 1999639.0 | 592218.4 | 1542.27         | -                       | D-5         |  |  |
| 1207             | 1999650.2 | 592262.1 | 1542.67         | -                       | E-5         |  |  |
| 1209             | 1999639.0 | 592352.9 | 1543.65         | -                       | GW-2        |  |  |
| 1210             | 1999619.0 | 592337.5 | 1544.14         | -                       | F-5         |  |  |
| 1211             | 1999597.0 | 592281.0 | 1543.51         | 1543.22                 | MW-102/E-6  |  |  |
| 1212             | 1999588.1 | 592242.3 | 1543.28         | -                       | D-6         |  |  |
| 1263             | 1999595.0 | 592319.9 | 1543.25         | -                       | F-6         |  |  |
| 1264             | 1999563.3 | 592331.1 | 1543.85         | -                       | F-7         |  |  |
| 1266             | 1999566.6 | 592382.1 | 1543.62         | -                       | G-7         |  |  |
| 1279             | 1999497.1 | 592270.3 | 1543.57         | -                       | E-8         |  |  |
| 1280             | 1999549.6 | 592256.4 | 1543.51         | -                       | D-7         |  |  |
| 1282             | 1999487.1 | 592226.6 | 1543.19         | -                       | D-8         |  |  |
| 1283             | 1999508.7 | 592319.0 | 1543.27         | -                       | F-8         |  |  |
| 1284             | 1999514.2 | 592380.7 | 1543.39         | -                       | G-8         |  |  |
| 1285             | 1999573.2 | 592418.0 | 1543.65         | -                       | H-7         |  |  |
| 1286             | 1999517.3 | 592440.5 | 1544.79         | -                       | H-8         |  |  |
| 1287             | 1999478.2 | 592397.3 | 1543.65         | -                       | G-9         |  |  |
| 1323             | 1999401.4 | 592254.1 | 1542.45         | 1542.07                 | MW-103/E-10 |  |  |
| 1324             | 1999445.3 | 592264.2 | 1543.14         | -                       | E-9         |  |  |
| 1325             | 1999418.5 | 592261.8 | 1543.17         | 1542.97                 | GW-14       |  |  |
| 1326             | 1999449.4 | 592312.9 | 1543.18         | 1542.93                 | MW-101/F-9  |  |  |
| 1382             | 1999529.3 | 592469.7 | 1542.28         | -                       | I-7         |  |  |
| 1484             | 1999365.4 | 592377.8 | 1542.27         | -                       | F-11        |  |  |
| 1489             | 1999423.6 | 592400.6 | 1543.56         | -                       | G-10        |  |  |
| 1499             | 1999403.3 | 592332.4 | 1546.10         | 1545.85                 | MW-109/F-10 |  |  |
| 1501             | 1999365.3 | 592299.6 | 1542.85         | -                       | E-11        |  |  |
| 1519             | 1999304.6 | 592350.3 | 1548.51         | -                       | F-12        |  |  |
| 1531             | 1999256.3 | 592411.4 | 1547.19         | -                       | H-13        |  |  |
| 1550             | 1999214.6 | 592537.4 | 1548.29         | -                       | J-14        |  |  |
| 1699             | 1999615.2 | 592418.3 | 1546.75         | 1546.69                 | MW-108/H-6  |  |  |

| SAMPLE LOCATIONS |           |          |         |            |                    |  |  |
|------------------|-----------|----------|---------|------------|--------------------|--|--|
| Ground PVC Riser |           |          |         |            |                    |  |  |
| Pnt.             | Northing  | Easting  | Elev.   | Pipe Elev. | Desc.              |  |  |
| 1749             | 1999786.6 | 592297.3 | 1541.46 | -          | F-2                |  |  |
| 1767             | 1999747.5 | 592263.3 | 1541.36 | -          | E-3                |  |  |
| 1831             | 1999779.6 | 592249.6 | 1540.61 | -          | E-2                |  |  |
| 1882             | 1999766.0 | 592166.9 | 1545.98 | -          | MW-105/C-2         |  |  |
| 1892             | 1999720.0 | 592151.2 | 1543.23 | -          | MW-106/C-3         |  |  |
| 1931             | 1999833.9 | 592054.2 | 1545.27 | 1545.12    | MW-104/A-1         |  |  |
| 1944             | 1999776.3 | 592087.3 | 1539.82 | 1539.76    | A-2                |  |  |
| 1947             | 1999769.4 | 592115.3 | 1540.89 | 1540.47    | B-2                |  |  |
| 2019             | 1999711.5 | 592085.6 | 1538.75 | -          | TB-13              |  |  |
| 2023             | 1999692.5 | 592120.1 | 1542.15 | -          | GW-11              |  |  |
| 2024             | 1999711.9 | 592117.5 | 1541.27 | -          | B-3                |  |  |
| 2034             | 1999525.0 | 592176.7 | 1543.33 | -          | MW-110 /C-7        |  |  |
| 2205             | 2000429.5 | 591223.3 | 1533.56 | -          | TEST BORING        |  |  |
| 2332             | 2000510.4 | 591451.8 | 1535.11 | 1534.86    | TEST BORING        |  |  |
| 3842             | 1999912.6 | 592004.8 | 1537.04 | -          | ST-102A            |  |  |
| 3843             | 1999916.0 | 592009.0 | 1538.85 | -          | ST-102A            |  |  |
| 3844             | 1999924.5 | 592016.0 | 1538.59 | -          | ST-102B            |  |  |
| 3845             | 1999918.4 | 591997.1 | 1539.73 | -          | ST-102             |  |  |
| 3854             | 1999968.2 | 591994.3 | 1537.84 | -          | TB-19              |  |  |
| 3856             | 1999979.3 | 592006.1 | 1537.51 | -          | TB-20              |  |  |
| 3857             | 1999991.8 | 592017.9 | 1537.50 | -          | TB-21              |  |  |
| 3868             | 2000032.9 | 592011.6 | 1538.09 | -          | TB-2               |  |  |
| 3869             | 2000036.4 | 592019.6 | 1537.26 | -          | TB-25              |  |  |
| 3870             | 2000015.6 | 591965.5 | 1537.87 | -          | TB-23              |  |  |
| 3882             | 2000119.7 | 591994.0 | 1537.55 | -          | SD-103B            |  |  |
| 3883             | 2000111.8 | 591982.9 | 1537.11 | _          |                    |  |  |
| 3884             | 2000086.4 | 591946.9 | 1537.53 | _          | SD-103A<br>SD-103D |  |  |
| 3885             | 2000111.0 | 591938.3 | 1537.56 | _          |                    |  |  |
| 3886             | 2000142.3 | 591938.6 | 1537.36 | _          | TB-26              |  |  |
| 3908             | 2000196.6 | 591882.1 | 1537.17 | _          | TB-27              |  |  |
| 3909             | 2000136.8 | 591877.3 | 1536.05 | _          | TB-31              |  |  |
| 3910             | 2000210.8 | 591891.3 | 1537.05 | _          | TB-35              |  |  |
| 3910<br>3911     | 2000229.5 | 591896.6 | 1537.03 |            | TB-33              |  |  |
| 3911<br>3912     | 2000237.6 | 591931.2 | 1541.23 | -          | TB-34              |  |  |
|                  |           |          |         | -          | SD-103             |  |  |
| 3921             | 2000298.9 | 591847.4 | 1536.40 | -          | TB-40              |  |  |
| 3922             | 2000324.4 | 591825.6 | 1537.36 | -          | SD-104B            |  |  |
| 3924             | 2000316.2 | 591816.8 | 1535.73 | -          | SD-104C            |  |  |
| 3926             | 2000303.2 | 591809.3 | 1536.76 | -          | SD-104C            |  |  |
|                  | 1999549.4 | 592288.0 | -       | -          | E-7                |  |  |
|                  | 1999747.3 | 592307.1 | -       | -          | F-3                |  |  |
|                  | 1999458.9 | 592239.3 | -       | -          | D-9                |  |  |

\*Horizontal Coordinates reference to the New York State Plane Coordinate
System, East Zone (3101) based on NAD 83 (2011). Vertical Datum is NAVD88.
Horizontal and Vertical control were established by NYSNET RTK.

|       | SAMPLE LOCATIONS 9-26-14 |          |                 |                      |                         |          |  |
|-------|--------------------------|----------|-----------------|----------------------|-------------------------|----------|--|
| Pnt.  | Northing                 | Easting  | Ground<br>Elev. | Top of<br>Well Elev. | PVC Riser<br>Pipe Elev. | Desc.    |  |
| 10032 | 1999370.5                | 592338.7 | 1543.08         | -                    | -                       | F-11A    |  |
| 10034 | 1999285.8                | 592255.5 | 1543.44         | 1546.53              | 1546.29                 | MW-204   |  |
| 11003 | 1999528.6                | 592285.2 | 1543.02         | -                    | -                       | E-7A     |  |
| 11004 | 1999426.2                | 592314.4 | 1543.02         | -                    | -                       | F-9A     |  |
| 11005 | 1999945.7                | 591954.2 | 1540.77         | 1543.81              | 1543.58                 | MW-201   |  |
| 11007 | 2000040.7                | 591958.9 | 1537.72         | -                    | -                       | SD-200   |  |
| 11008 | 2000159.9                | 591929.1 | 1537.35         | -                    | -                       | SD-201   |  |
| 11009 | 2000266.2                | 591853.5 | 1536.29         | -                    | -                       | SD-202   |  |
| 11010 | 2000349.7                | 591773.5 | 1536.14         | -                    | -                       | SD-203   |  |
| 11011 | 2000463.7                | 591665.8 | 1535.66         | -                    | -                       | SD-204   |  |
| 11012 | 2000540.6                | 591583.1 | 1535.11         | -                    | -                       | SD-205   |  |
| 11014 | 1999993.6                | 591741.0 | 1547.99         | 1548.05              | 1547.83                 | MW-203*  |  |
| 11017 | 1999711.9                | 591841.6 | 1554.26         | 1554.19              | 1553.97                 | MW-202*  |  |
| 11020 | 1999119.0                | 592297.7 | 1542.44         | 1545.52              | 1545.37                 | MW-205D* |  |
| 11021 | 1999124.3                | 592295.9 | 1542.65         | 1545.44              | 1545.24                 | MW-205S* |  |
| 11026 | 1999303.8                | 592387.3 | 1547.16         | -                    | _                       | G-12     |  |
| 11027 | 1999144.7                | 592416.4 | 1542.10         | -                    | -                       | H-15*    |  |
| 11028 | 1999792.2                | 592658.4 | 1548.42         | -                    | -                       | BB1      |  |
| 11029 | 2000366.8                | 590878.9 | 1529.52         | -                    | -                       | LF1      |  |
| 11030 | 2000406.2                | 591134.9 | 1535.86         | -                    | -                       | BB2      |  |

Note: Horizontal Coordinates reference to the New York State Plane Coordinate System, East Zone (3101) based on NAD 83 (2011). Vertical Datum is NAVD88. Horizontal and Vertical control were established by NYSNET RTK.

\*Test areas located off site.

|       |           |          | Ground  | Top of    | PVC Riser |        |
|-------|-----------|----------|---------|-----------|-----------|--------|
| Pnt.  | Northing  | Easting  | Elev    | Well Elev | Pipe Elev | Desc.  |
| 80055 | 1999930.6 | 591913.4 | 1541.15 | -         | 1544.19   | PZ-301 |
| 80035 | 1999841.6 | 592086.2 | 1548.34 | -         | 1552.14   | PZ-302 |
| 80062 | 2000119.2 | 592008.0 | 1538.40 | -         | 1540.13   | PZ-303 |
| 80063 | 2000131.7 | 592031.5 | 1542.25 | -         | 1545.06   | PZ-304 |
| 80021 | 2000322.7 | 591770.8 | 1542.29 | -         | 1545.28   | PZ-311 |
| 80015 | 2000470.5 | 591409.9 | 1535.49 | 1535.91   | 1535.84   | PZ-317 |
| 80017 | 2000497.2 | 591398.6 | 1535.01 | 1535.41   | 1535.29   | PZ-318 |
| 80010 | 2000386.6 | 590882.4 | 1531.63 | 1531.85   | 1531.67   | PZ-328 |
| 80000 | 2000302.6 | 590671.3 | 1532.89 | 1533.12   | 1532.97   | PZ-331 |
| 80003 | 2000171.7 | 590555.8 | 1528.98 | 1529.08   | 1528.95   | PZ-332 |
| 80012 | 2000412.0 | 590854.7 | 1531.18 | 1531.33   | 1531.08   | PZ-333 |
| 80007 | 2000457.7 | 590671.7 | 1531.56 | 1531.81   | 1531.59   | PZ-335 |
| 80005 | 2000492.3 | 590420.6 | 1532.43 | 1532.28   | 1531.96   | PZ-336 |
| 80023 | 2000299.5 | 591739.0 | 1547.72 | -         | 1550.87   | PZ-337 |

Note: Horizontal Coordinates reference to the New York State Plane Coordinate System, East Zone (3101) based on NAD 83 (2011). Vertical Datum is NAVD88. Horizontal and Vertical control were established by NYSNET RTK.

Saranac Gas Plant

"Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law." "Copies from the original of this survey map not marked with an original of the of the land surveyor's inked seal or his embossed seal shall not be considered a valid true copy."

Part of LOT 13

State of New York

Scale of 1 inch = 30'

PHONE: (315)748-7000

LOT 13 TOWN North Elba

ork
= 30' Date 1/7/14 - 12/08/14 (Revised)
1/6/17 (Revised) - 5/25/17 (Revised)

FAX: (315) 748-7780 6390 FLY ROAD EAST SYRACUSE, N.Y. 13057 www.PrudentEng.com

Project No. 109.005-4

PRUDENT

ENGINEERING

## **APPENDIX C**

## INVESTIGATION DERIVED WASTE MANIFESTS

# Waste Information Profile Form



ENPRO Services of Maine, Inc. 106 Main Street S. Portland, ME 04106 Phone: 207.799.0850 Fax: 207.779.5565 MED019051069 ENPRO Services of Vermont, Inc 54 Avenue D Williston, VT 05495 Phone: 802.860.1200 Fax: 802.860.7202 VTR000517052

Profile #: 78220 Process Code: Approval Code: VT-03-7-15/26

| 1. Generator Informa<br>Generator Name: _AV  | EC FOSTER WHEELER ENVRO  | NMENTAL & INFRA                             | STRUCT                     |  |   |
|--|--|---|----------------------------|--|---|
| Mailing Address: 51  | CONGRESS STREET  |   | hone: 207.828              | 2668   |   |
| City: PORTLAND<br>Site Address: 24 PAYE  |  | ip: <u>04101</u> P                          | hone:                      | 2000   |   |
| City: NORTH ELBA   |  | ip: 12946                                   |                            |  |   |
| Technical Contact: DY  | LAN FARRELL  | Phone: 207.8                                | 328.2668                   |  |   |
|  | SQG  | NAICS Cod                                   | e:                         |  |   |
|  | :<br>ch Environmental Services, Inc.,<br>Deere Road                          | dba NRC                                     |                            | =  |   |
| City: Syracuse   |  | : 13206                                     |                            |  |   |
| Billing Contact:   |  |   |                            |  |   |
| Phone:   | Fax:   |   |                            |  |   |
| 3. Waste Description:<br>Common Name of Was<br>Process Generating W  | tc: Soil from Phase 1 Investigation<br>aste Drill Cuttings from a Phase 1 Si | te Investigation at teh I                   | Former Saranac Lal         | e Gas Plant  |   |
| 4. Physical & Chemic<br>Color: Bro   | al Properties  | None X Mild 🗆                               |                            |  | pleum   |
| Flash X <100   | ВТ U/IЬ  | X Solid                                     | Free Liquids?              |  | □Yes X No   |
| Point (F <sup>2</sup> ) □ ≥100-1   | 40 □ <2000   | ☐ Liquid                                    | 100.00 % So                | The state of the s | CONTRACTOR OF THE PARTY OF THE |
| □ >140-20  | 2,000-6,000  | ☐ Sludge                                    | Will waste du              | mp out of drums?   |   |
| □ >200   | □ >6,000-10,000  | ☐ Semi-solid                                | Is the waste p             | umpable?   | □Yes X No   |
| □ N/A  | □>10000  | ☐ Powder                                    | Debris?(List t             | ype in Section 7)  | □Yes X No   |
| 9.00   | X N/A  | ☐ Gas                                       | Is the waste d             | usty?  | □Yes X No   |
| Specific Gravity   | Viscosity  | pH  | Other Comp                 | onents   |   |
| <0.8 (Light oil)   | Low (Water)  | □ < 2.0                                     | Total cyanide              |  | (ppm) <u>0.00</u>   |
| 0.8-1.0 (Water base  |  | □ >2.0-5                                    | Total sulfides             |  | (ppm) <u>0.00</u>   |
|  | 26 E E E E E E E E E E E E E E E E E E E                                     | X >5-9                                      | PCBs                       | - NOC  | (ppm) 0.00  |
| > 1.0 (Chlorinated<br>Solvents)  |  | □ >9-12,49                                  | Total Haloger<br>Total VOC | is/HOC   | (%) 0.00<br>(ppm) 0.00  |
| THE PROPERTY AND PARTY AND | X N/A  | U.S. 15 15 15 15 15 15 15 15 15 15 15 15 15 | Tour FOC                   |  | (ppin) disc   |
| ( N/A  |  | □ ≥ 12.5                                    |                            |  |   |
|  | es: (Check all that apply)   | # 4   | ve.                        | C 0 11   |   |
| X None   | ☐ Radioactive  | ☐ Pyrophor                                  |                            | ☐ Oxidizer   | **************************************  |
| □ Water Reactive   | □ Dioxins  | ☐ Explosive                                 |                            |  | aste/Infectious   |
| Shock Sensitive  | ☐ Air Reactive   | ☐ Reactive                                  | Section 19 Section 19      | ☐ Reactive S   | Sulfide   |
| ☐ Asbestos   | ☐ Benzene NESHAP   | ☐ Pesticide                                 | Herbicide                  | ☐ Peroxide l   | Forming Compound  |
| . Regulatory Status (  | Check all that apply)  |   |                            |  |   |
| ( N  |  |   |                            |  |   |
|  | dous Waste per 40 CFR 261  |   |                            |  |   |
| X Do any state v   | vaste codes apply? (If yes list  | t codes)                                    |                            |  |   |
| X Is this waste s  | ubject to land ban restrictions  | 7   |                            |  |   |
| Is this a w  |  |   |                            |  |   |
|  | 3, are any underlying hazardo  | us constituents (U                          | HC) present                |  |   |
|  | te contain VOC's ≥ 500 ppm   |   | nero Artikano arabisana    |  |   |

ENPRO

| FILLE  |  | P  | rofile #: 78220  |                |
|--|--|--|--|----------------|
| <ol> <li>Composition of Waste: (List all haz. An<br/>see attached analytical</li> </ol>  | d non-haz. Constituents<br>0.00 - 100.00%  | )  |  | - %            |
| Sol  | 0.00 - 100.00%   |  |  | - %            |
| 301  | - %  |  |  | - %            |
|  |  |  |  | - %            |
|  |  |  |  | %              |
|  | %  |  |  | - %            |
|  | %  |  |  | - %            |
|  | - %  |  |  | %              |
|  |  |  |  | %              |
|  | - %  |  |  | %              |
| 8. DOT Shipping Information: (include  | PG UN/NA and Haz C   | llass)   |  |                |
| Non-RCRA, non-DOT  | O, Diving and man o  |  |  |                |
|  |  |  |  |                |
|  |  |  |  |                |
|  | 17 (17 (17 (17 (17 (17 (17 (17 (17 (17 (   | IHN  |  |                |
| Method of Shipment: ☐ Bulk Liquid ☐ 1  | Bulk Solid X Drums   | Other Container  | type size: 400 Pound Stee  | l Drum         |
|  |  | Drums X Other  | P  |                |
|  | The second secon | THE R. P. LEWIS CO., LANSING MICH. LANSING MICH. LANSING MICH. 49 P. P. LEWIS CO., LANSING, MICH. 49 P. P. L.  | Other  |                |
|  |  |  |  |                |
| Does this material require any special hand  | ing? Lites o No II   | res, explain,  | SEC. 294.401   |                |
| 9. Inorganic Metals:   None  TCI   | P 🗆 Totals 🕱 Ge  | nerator Knowledge  | n mg/l   |                |
| D004 Arsenic (5mg/l) 0.00  | D011 Silver (5mg/l)  |  | anganese 0.00  |                |
| D005 Barium (100mg/l)  | Aluminum   | The state of the s | olybdenum 0.00   |                |
| D006 Cadmium (1mg/l) 0.00  | Antimony   |  | ckle 0.00  | -              |
| D007 Chromium (5mg/l) 0.00   | Beryllium  |  | allium 0.00  | 28             |
| D007 Chromium-Hex 0.00   | Cobalt   | 0.00 Ti  |  | -              |
| D008 Lead (5mg/l) 0.01   | Copper   | 0.00 Zi  | inc <u>0.00</u>  |                |
| D009 Mercury (0.2mg/l) 0.00  |  |  |  |                |
| D010 Selenium (1mg/l) 0.00   |  |  |  |                |
| 10. Organic Compounds X None   | CLP   Totals   (   | Generator Knowledge  | in mg/l  | caraca         |
| D012 Endrin (0.02) 0.00 D023   | o-Cresol (200)   | 0.00 D03   | 4 Hexachloroethane (3.0)<br>35 Methyl ethyl ketone (200)   | 0.00           |
| DOIS Linearie  | m-Cresol (200)<br>p-Cresol (200)   |  | 36 Nitrobenzene (200)  | 0.00           |
| Dol's interioryclass (10)  | p-Cresol (200)<br>Cresol (200)   |  | 37 Pentachiorophenol (100)   | 0.00           |
| DOIS 10/2010 (10) 0.00 D027  | 1,4-Dichlorobenzene (7.5)  | 0.00 D03   | 8 Pyridine (5)   | 0.00           |
| D017 2.4.5 TP Silvex (1) 0.00 D028   | 1.2- Dichloroethane (0.5)  |  | 19 Tetrachloroethylene (0.7)   | 0.00           |
| D018 Benzene (0.5) 0.00 D029   | 1,1-Dichloroethylene (0.7)   |  | 40 Trichloroethylene<br>41 2,4,5-Trichlorophenol   | 0.00           |
| DOLL CHINA CONTRACTOR OF THE PARTY OF THE PA | 2,4 Dinitrotoluene (0.3)<br>Heptachlor (& epoxide) (0.00   |  | 12 2,4,6-Trichlorophenol   | 0,00           |
| 2021 Chlosebenzene (100) 0.00 D032   | Hexachlorobenzene (0.13)   |  | 13 Vinyl Chloride  | 0.00           |
| D022 Chloroform (6.0) 0.00 D033  | Hexachlorobutadiene (0.5)  | 0.00   | Part of the Control o |                |
| 11. Attached Documents: 🔲 Lab Data   | ☐ MSDS ☐ Packin  |  |  |                |
| 12 Generator Certification: I hereby cer   | tify that I am the agent of  | of the generator, and  | warrant on behalf of the go  | enerator, that |
| all information submitted berein and attache   | d documentation contait  | ns true, accurate and  | complete description of th   | nis material.  |
| Any sample submitted for analysis is repres  | entative of the material   | being offered for app  | roval. All relevant inform   | ation          |
| regarding known or suspected hazards in the  | possession of the gene   | rator has been disclo  | sed. I will notify ENPRO   | of any         |
| changes in generator status, any information   | on this form, or any in  | formation on attachm   | ents. This certification and   | d signature    |
| apply to this form, to all attachments checke  | d in Section 11, and to  | the land disposal rest   | riction notification (LDR)   | generated      |
| from this information.   | PART SECRETARISM SECTION SECTI |  |  |                |
| 12   | man and  | 1784 00 - 17 | T. 4945 /  |                |
| - Smill Dylar  | Printed Name   | Environmental  | HAL 03/50/17   |                |
| Signature  | Printed Name   |  | Title /Date  |                |
| ***  |  |  |  |                |

# **Waste Information Profile Form**



ENPRO Services of Maine, Inc. 106 Main Street S. Portland, ME 04106 Phone: 207.799.0850 Fax: 207.779,5565 MED019051069 ENPRO Services of Vermont, Inc 54 Avenue D Williston, VT 05495 Phone: 802.860.1200 Fax: 802.860.7202 VTR000517052

| Profile #: 78223   | Proces  | s Code:   | Approval Code: VT-0317-15  |  |  |  |
|--|---|---|--|--|--|--|
| Site Address: 24 PAYEVILLE ROCKITY: NORTH ELBA St. Technical Contact: DYLAN FAF Site EPA ID: CESQG  2. Billing Information: Customer Name: Op-Tech Envir Address: 6392 Deere Ro  | RESS STREET  Inte:ME Zip  OAD  ate:NY Zip  RRELL  commental Services, Inc., do  ad  ate:NY Zip:  Email:  Fax:  ter from Phase 1 Investigation | 204101 Plots 12946 Phone: 207.8 NAICS Code ha NRC             | 28.2668<br>:   |  |  |  |
|  |   | Saranac Lake Cos (10  |  |  |  |  |
| 4. Physical & Chemical Prop<br>Color: Clear  |   | one D Mild D  | Strong Describe:   | None   |  |  |
|  | TU/lb  □ <2000  □ 2,000-6,000  □ >6,000-10,000  □ >10000  X N/A   | ☐ Solid  X Liquid ☐ Sludge ☐ Semi-solid ☐ Powder ☐ Gas        | Free Liquids?  0.00 % Solids 100.00 %  Will waste dump out of drums Is the waste pumpable?  Debris?(List type in Section 7 Is the waste dusty? | s? XYes □ No<br>□Yes X No  |  |  |
| Specific Gravity V   | iscosity  | pH  | Other Components   |  |  |  |
| □ <0.8 (Light oil) □ □ 0.8-1.0 (Water based) □ □ >1.0 (Chlorinated □   | Low (Water) Med (Pump on) High (Molasses) N/A   | ☐ ≤2.0<br>☐ >2.0-5<br><b>X</b> >5-9<br>☐ >9-12.49<br>☐ ≥ 12.5 | Total cyanides Total sulfides PCBs Total Halogens /HOC Total VOC   | (ppm) 0.00<br>(ppm) 0.00<br>(ppm) 0.00<br>(%) 0.00<br>(ppm) 0.00 |  |  |
| 5. Hazardous Properties: (Ci   | neck all that apply)  |   |  |  |  |  |
| ➤ None  ☐ Water Reactive ☐ Shock Sensitive ☐ Asbestos  | ☐ Radioactive ☐ Dioxins ☐ Air Reactive ☐ Benzene NESHAP   | ☐ Pyrophor ☐ Explosive ☐ Reactive ☐ Pesticide                 | e ☐ Medical<br>Cyanide ☐ Reactive  | Waste/Infectious   |  |  |
| 6. Regulatory Status (Check all Y N Status ( | Waste per 40 CFR 261 odes apply? (If yes list to land ban restrictions ter  on wastewater   | codes)<br>?<br>er   |  |  |  |  |
|  | any underlying hazardo:<br>ain VOC's ≥ 500 ppm<br>S   |   | ine Character  |  |  |  |



|  |  | Proi   | me #: 75223   |
|--|--|--|---|
|  | (List all haz, And non-haz, Constituents   | s)   | . %   |
| see attached analytical  | 0.00 - 100.00%   |  |   |
| Water / Non-Hazardous Liquid   | 0.00 - 100.00%   |  | <u></u>   |
|  | %  |  |   |
|  | . %  |  |   |
|  |  |  |   |
|  | - 16   |  | %   |
|  |  |  | %   |
| ,  |  |  | - 96  |
|  | - 2  |  | - %   |
|  |  |  | - %   |
|  |  |  |   |
|  | ation: (include PG, UN/NA, and Haz. (  | Class)   |   |
| Non-RCRA, non-DOT  |  |  |   |
|  |  |  |   |
| Poison Inhalation Hazard:  | ☐ YES X NO Zone: P   | PIHN   |   |
|  | 2 8 8 5 12 1   |  | e size: 400 Pound Steel Drum                          |
| Method of Shipment: □ B  | 15.00kg (15.00kg ) [15.00kg (15.00kg ) [15.00kg ] [15.00kg ] [15.00kg ] [15.00kg ]   | ☐ Drums ☐ Other  |   |
| Volume per shipment:   | 100100   |  | Sat and   |
| Frequency: X One T   |  | Land to the second of the seco | Jiner   |
| Does this material require a   | any special handling? 🗆 Yes 🛮 No If  |  |   |
| 9. Inorganic Metals: X   | None   TCLP  Totals  Ge  |  |   |
| D004 Arsenie (5mg/l)   | 0.00 D011 Silver (5mg/l)   | 0.00 Mang:   |   |
| D005 Barium (100mg/l)  | 0.00 Aluminum  | 0.00 Molyb   | odenum 0.00   |
| D006 Cadmium (1mg/l)   | 0.00 Antimony  | 0.00 Nickle  |   |
| D007 Chromium (5mg/l)  | 0.00 Beryllium   | 0.00 Thallin   | 7/0   |
| D007 Chromium (3mg/1)  | 0.00 Cobalt  | 0.00 Tin   | 0.00  |
|  | 0.00 Copper  | 0.00 Zinc  | 0.00  |
| D008 Lead (5mg/l)  | 0.00 Copper  | 0.00   |   |
| D009 Mercury (0.2mg/l)   | 0.00   |  | - 1   |
| D010 Selenium (1mg/l)  | TOTAL CONTRACTOR CONTRACTOR CONTRACTOR   | EST STATEMENT AND A SECOND   | 50.000Z   |
| 10. Organic Compounds  |  | Generator Knowledge in   |   |
| D012 Endrin (0.02)   | 0.00 D023 o-Cresol (200)   |  | exachloroethane (3.0) 0.00                            |
| D013 Lindane (0.4)   | 0.00 D024 m-Cresol (200)<br>0.00 D025 p-Cresol (200)   |  | ethyl ethyl ketane (200) 0.00<br>itrobenzene (2) 0.00 |
| A STATE OF THE STA |  |  | entachlorophenol (100) 0.00                           |
| A PO THE CONTRACTOR OF THE PROPERTY OF THE PRO | 0.00 D026 Cresol (200)<br>0.00 D027 1,4-Dichlorobenzene (7.5)  | 0.00 D038 P  |   |
| DOLD TO TO   | 0.00 D028 1,2- Dichloroethane (0.5)  | 0.00 D039 Te   | etrachloroethylene (0.7) 0.00                         |
| DOIS Benzene (0.5)   | 0.00 D029 1,1-Dichloroethylene (0.7)   |  | richloroethylene 0.00                                 |
| D019 Carbon Tetrachloride (0.5)  | 0.00 D030 2,4 Dinitrotoluene (0.3)   | 0.00 D041 2,   | 4.5-Trichlorophenol 0.00                              |
| D020 Chlordane (0.03)  | 0.00 D031 Heptachlor (& epoxide) (0.00   |  | 4,6-Trichlorophenol 0.00                              |
| D021 Chlorobenzene (100)   | 0.00 D032 Hexachlorobenzene (0.13)   |  | 'inyl Chloride 0.00                                   |
| Dogs Campagness  | 0 00 D033 Hexachlorobutadiene (0.5)  | 18000 PARKETI  |   |
| 11. Attached Documents:  | THE STATE OF THE S | ng List Other  |   |
| 12. Generator Certification  | n: I hereby certify that I am the agent  | of the generator, and war  | rant on behalf of the generator, that                 |
| all information submitted he   | rein and attached documentation contain  | ins true, accurate and con   | nplete description of this material.                  |
| Any sample submitted for as  | nalysis is representative of the material  | being offered for approva  | al. All relevant information                          |
| regarding known or suspects  | ed hazards in the possession of the gene   | erator has been disclosed.   | I will notify ENPRO of any                            |
| changes in generator status.   | any information on this form, or any in  | formation on attachments   | s. This certification and signature                   |
| changes in generality all atta   | schments checked in Section 11, and to   | the land disposal restricti  | ion notification (LDR) generated                      |
| from this information.   | Children and the Control of the Cont |  |   |
| from inis initeriasion.  |  |  |   |
| M  | After Formall  | Environmental Tech   | 03/50/17  |
| June   | Printed Name   | Tit  |   |
| Signature  | Filmed Halle   |  | ic Daic   |
|  |  |  |   |

# NON-HAZARDOUS WASTE

# NON-HAZARDOUS WASTE MANIFEST

| print or type (Form designed for use on eith   | e (12 pitch) typewriter)   | N/O(m)   |                                       | A Secret Secret                               | 2.P                                      |                        |
|--|--|--|---------------------------------------|---|--|------------------------|
| NON-HAZARDOUS<br>WASTE MANIFEST  | t. Generalor's US EPA II   | CESQG  |                                       | Munifest<br>Document No.                      | 400455 004                               | di:                    |
| 3. Generator's Name and Maling Address  AMEC FOSTER WHEELER I  | ENV. & INF.  |  |                                       |   | M PAYEVILLE ROAI<br>NORTH ELBA, NY 12    |                        |
| 611 CONGRESS STREET  |  |  |                                       |   |  |                        |
| 4. GüneziPORTLAND, ME 04181<br>5. Transporter 1 Company 1500 8 ATTN: D   | YLAN FARRELL   | IJS EPA ID Number  |                                       | A. State Transports                           | ra ID                                    |                        |
| ENPRO SERVICES OF V  | er tree for a constitution of the late.  | VTROODS  | 17052                                 | -iii. Transporter 1 Ph                        | ene 802.9                                | 80.120                 |
| 7. Transporter 2 Company Name A.   |  | MAC3000993   | dA                                    | C. State Transports                           | 44                                       | 770                    |
| EMPRO Service  | SINCI  | 10. US EPA ID Number   | 79                                    | D. Transporter 2 Pt<br>E. State Facility's II |  | 66110                  |
| B Desayvered Facility Name and Site Address ENPRO SERVICES OF V 54 AVENUE D  | ERMONT, INC.   | VTR0005  | 17052                                 | F. Facility's Phone                           |  | 60.120                 |
| WILLISTON, VERMON  | 41 05495   |  | 12. Cor                               | stainers                                      | 13.<br>Total                             | 14.<br>Unit            |
| 11. WASTE DESCRIPTION  |  |  | No                                    | Туре  | Quantity                                 | Wt./Vol.               |
| NON-DOT, NON-RO<br>(NON-HAZARDOUS  | CRA REGULATED<br>S SOIL)   | MATERIAL   | 11                                    | DM  | 4,400                                    | P                      |
| NON-DOT, NON-RO<br>(NON-HAZARDOUS  | CRA REGULATED<br>S WATER)  | LIQUIDS  | 2                                     | DM  | 100                                      | (                      |
| 6  |  |  |                                       |   |  |                        |
|  |  |  |                                       |   |  |                        |
| d.   |  |  | - 1                                   |   |  |                        |
| G. Additional Descriptions for Materials Listed A  | 220 (APPROVAL  | #VT-0317-25124)<br>#VT-0317-25122)   |                                       | H. Handling Code                              | s for Wasten Littled Above               |                        |
| G. Additional Descriptions for Materials Listed A  a. PROFILE #78 b. PROFILE #78  15. Special Handling instructions and Additional   | 220 (APPROVAL<br>223 (APPROVAL   | 本人) - 0つけ、ブルイマン  |                                       | H. Handling Code                              | s for Wastes Littled Abovs               |                        |
| G. Additional Descriptions for Materials Listed A  a. PROFILE #78 b. PROFILE #78  15. Special Handling instructions and Additional   | 220 (APPROVAL<br>223 (APPROVAL   | #VT= 03:7 - 15:24)<br>#VT= 03:7 - 25:22)<br>Environmental Services   |                                       | H. Handling Code                              | s for Wastes Littled Abovs               |                        |
| Adaltional Descriptions for Materials Listed A     PROFILE #78     D. PROFILE #78     15. Special Handling instructions and Adaltonal     Emergency Response #   | 220 (APPROVAL<br>223 (APPROVAL<br>Hotomation<br>1 800:225.6750 NRC   | Environmental Services   | rethant and are in                    |   | s for Whaten Littled Above               |                        |
| G. Additional Descriptions for Materials Listed A  a. PROFILE #78 b. PROFILE #78  15. Special Handling instructions and Additional  Emergency Response #  PO #: 109155   | 220 (APPROVAL 223 (APPROVAL 4 Information 2 800.225.6750 NRC   | Environmental Services  Environmental Services  Environmental Services  Environmental Services  Environmental Services   | rethant and are in                    |   |  | Dote                   |
| G. Additional Descriptions for Materials Listed A  a. PROFILE #78 b. PROFILE #78  15. Special Handling instructions and Additional  Emergency Response #  PO #: 109155   | 220 (APPROVAL 223 (APPROVAL 4 Information 2 800.225.6750 NRC   | Environmental Services  is shipment are fully and accurately deal are not subject to federal hazardous with the services of th | rethant and are in                    |   | s for Whisten Littled Albava  Month  6.3 | Day Y                  |
| a. PROFILE #78 b. PROFILE #78 b. PROFILE #78  15. Special Handling instructions and Additional Emergency Response #PO #: 109155  16. GENERATOR'S CERTIFICATION: I hereb in proper condition for transport. The mater   | 220 (APPROVAL, 1223 (APPROVAL, 1223 (APPROVAL, 123) (APPROVAL, | Environmental Services  is shipment are fully and accurately deal are not subject to federal hazardous with the services of th | cribed and are in<br>ste regulations. |   | Month                                    | Day 1                  |
| G. Additional Descriptions for Materials Listed A  a. PROFILE #78 b. PROFILE #78  15. Special Handling instructions and Additional  Emergency Response #  PO #: 109155   | 220 (APPROVAL, 1223 (APPROVAL, 1223 (APPROVAL, 123) (APPROVAL, | Environmental Services  is shipment are fully and accurately deal are not subject to federal hazardous with the services of th | cribed and are in<br>ste regulations. |   | Month                                    | 30 11                  |
| G. Additional Descriptions for Materials Listed A  a. PROFILE #78  b. PROFILE #78  16. Special Handling instructions and Additional  Emergency Response #  PO #: 109155  16. GENERATOR'S CERTIFICATION: I hareb in proper condition for transport. The mater  Prened/Typed Name  O y Law Farra  17. Transporter 1 Acknowledgement of Receiptions  Pringed/Typell Name  | 220 (APPROVAL, 1223 (APPROVAL, 1223 (APPROVAL, 123  | En vironm ental Servic et  | cribed and are in<br>ste regulations. |   | Month 63                                 | Day 1                  |
| G. Additional Descriptions for Materials Listed A  3. PROFILE #78  b. PROFILE #78  15. Special Handling instructions and Additional Emergency Response if PO #: 109155  16. GENERATOR'S CERTIFICATION: I hereb in proper condition for transport. The materi  Premed/Typed Name  17. Transporter 1 Acknowledgement of Receip Primed/Typed Name  18. Transporter 2 Acknowledgement of Receip  | 220 (APPROVAL, 1223 (APPROVAL, 1223 (APPROVAL, 123  | Environmental Services  Environmental Services  is chipment are fully and accurately desa are not subject to federal hazardous we  Signature  Signature  | cribed and are in<br>ste regulations. |   | Month 63                                 | 30 11                  |
| G. Additional Descriptions for Materials Listed A  3. PROFILE #78  b. PROFILE #78  15. Special Handling instructions and Additional Emergency Response #  PO #: 109155  16. GENERATOR'S CERTIFICATION: I hareb in proper condition for transport. The mater  Prened/Typed Name  17. Transporter 1 Advisowledgement of Receipt Prints/Typed Name  18. Transporter 2 Advisowledgement of Receipt Prints/Typed Name  19. Transporter 2 Advisowledgement of Receipt Prints/Typed Name  19. Transporter 2 Advisowledgement of Receipt | 220 (APPROVAL, 1223 (APPROVAL, 1223 (APPROVAL, 123  | En vironm ental Servic et  | cribed and are in<br>ste regulations. |   | Month 63                                 | Daty<br>30   I<br>Date |
| G. Additional Descriptions for Millerials Listed A  a. PROFILE #78  b. PROFILE #78  15. Special Handling instructions and Additional Emergency Response if PO #: 109155  16. GENERATOR'S CERTIFICATION: I hareb in proper condition for transport. The mater  Printed Typed Name  17. Transporter 1 Acknowledgement of Receip Printed Typed Name  18. Transporter 2 Acknowledgement of Receip Printed Typed Name  19. Discrepancy Indication Space   | 220 (APPROVAL, 1223 (APPROVAL, | Environmental Services  Environmental Services  Signature  Signature   | cribed and are in alle regulations.   |   | Month 63                                 | Day Date               |
| G. Additional Descriptions for Materials Listed A  3. PROFILE #78  b. PROFILE #78  15. Special Handling instructions and Additional Emergency Response #  PO #: 109155  16. GENERATOR'S CERTIFICATION: I hareb in proper condition for transport. The mater  Prened/Typed Name  17. Transporter 1 Advisowledgement of Receipt Prints/Typed Name  18. Transporter 2 Advisowledgement of Receipt Prints/Typed Name  19. Transporter 2 Advisowledgement of Receipt Prints/Typed Name  19. Transporter 2 Advisowledgement of Receipt | 220 (APPROVAL, 1223 (APPROVAL, | Environmental Services  Environmental Services  Signature  Signature   | cribed and are in alle regulations.   |   | Month 63                                 | Day 1                  |
| G. Additional Descriptions for Millerials Listed A  a. PROFILE #78  b. PROFILE #78  15. Special Handling instructions and Additional Emergency Response if PO #: 109155  16. GENERATOR'S CERTIFICATION: I hareb in proper condition for transport. The mater  Printed Typed Name  17. Transporter 1 Acknowledgement of Receip Printed Typed Name  18. Transporter 2 Acknowledgement of Receip Printed Typed Name  19. Discrepancy Indication Space   | 220 (APPROVAL, 1223 (APPROVAL, | Environmental Services  Environmental Services  Signature  Signature   | cribed and are in alle regulations.   |   | Month 63                                 | Date Date Date Date    |

## APPENDIX D

FIELD DATA RECORDS

|                  |               |                                 |          |         |            |  | SO                | IL BORING         | GLOG            |             |                      |                      |                     |
|------------------|---------------|---------------------------------|----------|---------|------------|--|-------------------|-------------------|-----------------|-------------|----------------------|----------------------|---------------------|
| 1                | 107-          | N /                             | ۸        | -       | 7          | EC                                     | Project Name:     | Saranac Lak       |                 | oany        |                      | Boring II            | D: SB/PZ-301        |
|                  |               | IVI                             |          | 1       | L.         | EC                                     | Project Location: | Saranac Lake      |                 |             |                      | Page No.             | 1                   |
| 5                | 511 C         | Congress S                      | treet, l | Portlar | nd Maine ( | 04101                                  | Project No.: 3611 | 161193            | Client:         | NYSDI       | EC                   | of                   |                     |
| Boring           | g Lo          | cation:                         |          |         |            |  | Refusal Depth:    | NA                | Total Dept      | h:          | 12' bgs              | Bore Hole            | e ID/OD: 2.25"      |
|                  |               | Overcas                         | t (35°   | F)      |            |  | Soil Drilled:     | 12 '              | Method:         | Direct l    | Push                 | Casing Si            | ize: 2.25"          |
| Subco            | ontra         | ctor:                           | Preci    | sion I  | Environm   | ental                                  |                   |                   | Protection      | Level:      | D                    | Sampler:             |                     |
| Orille           | r:            | Mike D                          | udley    |         |            |  | Date Started:     | 11/17/2016        | Date Comp       | pleted:     | 11/17/2016           | Sampler 1            |                     |
| Rig T            | ype/l         | Model:                          | Geo      | probe   | /Bobcat    |  | Logged By:        | D. Farrell        | Checked E       | By:         | B. Havens            |                      |                     |
| Refere           | ence          | Elevatio                        | n:       |         |            |  | Water Level:      | ~ 4.0 ft bgs      | Time:           | 830         |                      |                      |                     |
| S                | amp           | le Inforn                       | nation   | ı       | Mo         | onitoring                              |                   |                   |                 |             |                      |                      |                     |
| Oppth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |          |         | PID        | Waste Encountered                      | s                 | ample Descripti   | on and Class    | ification   | ı                    | USCS Group<br>Symbol | Remarks             |
| <del>,</del>     |               |                                 |          |         |            |  | 0 - 1.8           | No recovery       |                 |             |                      |                      |                     |
| 1                |               |                                 |          |         | 0.0        | NOI                                    |                   | •                 |                 |             |                      |                      |                     |
| 2                | 1             | 4.0/2.8                         |          |         |            |  | 1.8 - 2.2         | Organics, dark    | brown fine san  | d, leaves/  | twigs                | Pt                   |                     |
| 3                | 1             | 4.0/2.8                         |          |         |            |  | 2.2 - 4.0         | Light brown, m    | edium sand, dr  | y poorly    | graded               | SP                   |                     |
| 4                |               |                                 |          |         |            |  |                   |                   |                 |             |                      |                      |                     |
| 5                |               |                                 |          |         |            | ······································ | 4.0 - 5.6         | Same as above,    | now wet         |             |                      | SP                   | $\sqrt{4.0}$ ft bgs |
|                  |               |                                 |          |         | 0.0        | NOI                                    | 5.6 - 6.9         | Dark brown ve     | ry fine sand wi | ith trace s | ilts, poorly graded, | SP                   |                     |
| 6                | 2             | 4.0/3.3                         |          |         |            |  |                   | wet               |                 |             |                      |                      |                     |
| 7                |               |                                 |          |         |            |  | 6.9 - 8.0         | Dark brown, fir   | ne to medium s  | and, wet,   | poorly graded        | SP                   |                     |
| 8                |               |                                 |          |         |            |  |                   |                   |                 |             |                      |                      |                     |
| 9                |               |                                 |          |         | 0.0        | NOI                                    | 8.0 - 10          | Gray/brown, me    |                 |             |                      | SP                   |                     |
| 10               |               |                                 |          |         |            |  | 10 - 12           | Light brown/gra   | ay, fine to med | ium sand    | , poorly graded      | SP                   |                     |
| 11               | 3             | 4.0/2.8                         |          |         |            |  |                   |                   | , , to mod      |             | , 1                  |                      |                     |
| 12               |               |                                 |          |         |            |  |                   |                   |                 |             |                      |                      |                     |
|                  |               |                                 |          |         |            |  | D                 | ottom of Boring - | 12' has         |             |                      |                      |                     |
|                  |               |                                 |          |         |            |  | В                 | onom of Boring -  | 12 ugs          |             |                      |                      |                     |

**NOTES:** No observable impacts

|                    |               |                                 |          |          |             |  | SO                | L BORING         | G LOG                      |                      |                      |                     |
|--------------------|---------------|---------------------------------|----------|----------|-------------|--|-------------------|------------------|----------------------------|----------------------|----------------------|---------------------|
| 1                  | 100           | N /I                            | Λ        | -        | 71          | EC                                     | Project Name:     | Saranac Lak      | e Gas Company              |                      | Boring II            | D: SB/PZ-302        |
|                    | 4             | IVI                             | H        | IC       | LL.         | EC                                     | Project Location: | Saranac Lake,    |                            |                      | Page No.             | 1                   |
|                    | 511 C         | Congress S                      | Street,  | Portla   | ınd Maine ( | 04101                                  | Project No.: 3611 | 161193           | Client: NYSDI              | EC                   | of                   | : 1                 |
| Bori               | ng Lo         | cation:                         | ~50      | ft eas   | t of MW-    | 104                                    | Refusal Depth:    | NA               | Total Depth:               | 16' bgs              | Bore Hole            | e ID/OD: 2.25"      |
| Wear               | ther:         | Overcas                         | st (35°  | ° F)     |             |  | Soil Drilled:     | 16'              | Method: Direct l           | Push                 | Casing Si            | ize: 2.25"          |
| Subc               | ontra         | ctor:                           | Prec     | ision    | Environm    | ental                                  |                   |                  | Protection Level:          | D                    | Sampler:             | Macrocore           |
| Drill              |               | Mike D                          |          |          |             |  | Date Started:     | 11/9/2016        | Date Completed:            | 11/9/2016            | Sampler l            | ID/OD: 2.0"         |
| _                  |               | Model:                          |          | probe    | e/Bobcat    |  | Logged By:        | D. Farrell       | Checked By:                | B. Havens            |                      |                     |
| _                  |               | Elevation                       |          |          |             |  | Water Level:      | ~ 9.6 ft bgs     | Time: 920                  |                      | ļ.,,                 |                     |
|                    | Samp          | le Inform                       | natio    | n        | Mo          | onitoring                              |                   |                  |                            |                      |                      |                     |
| O Depth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |          |          | PID         | Waste Encountered                      | S                 | ample Descripti  | on and Classification      | 1                    | USCS Group<br>Symbol | Remarks             |
| 1                  |               |                                 |          |          |             |  | 0 - 1.1           | No recovery      |                            |                      |                      |                     |
| Ĺ                  |               |                                 |          |          | 0.9         | NOI                                    | 1.1 - 1.2         | Black.dark brow  | vn, organics, fine sand,   | poorly graded        | Pt                   |                     |
| 2                  |               |                                 |          |          | (see note)  |  |                   |                  |                            |                      |                      |                     |
|                    | 1             | 4.0/2.9                         |          |          |             |  | 1.2 - 4.0         | Light orange/lig | ht brown, fine sand, poo   | orly graded, moist   | SP                   |                     |
| 3                  | 1             | 4.0/2.7                         |          |          | 0.9         |  |                   |                  |                            |                      |                      |                     |
| 3                  |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| ,                  |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| 4                  |               |                                 |          |          |             | $\downarrow$                           |                   |                  |                            |                      |                      |                     |
|                    |               |                                 |          | İ        |             |  | 4.0 - 8.0         | Light orange/lig | ht brown, fine sand, poo   | orly graded, moist   | SP                   |                     |
| 5                  |               |                                 |          |          | 0.9         | NOI                                    |                   |                  |                            |                      |                      |                     |
|                    |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| 6                  |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
|                    | 2             | 4.0/4.0                         |          |          | 0.9         |  |                   |                  |                            |                      |                      |                     |
| 7                  |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| _                  |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| 8                  |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| _                  |               |                                 |          | ļ        |             | ······································ |                   |                  |                            |                      |                      |                     |
| 9                  |               |                                 |          |          | 0.0         | NO.                                    | 8.0 - 8.3         | Cave-in from ab  | oove                       |                      | SP                   |                     |
|                    |               |                                 |          |          | 0.9         | NOI                                    | 8.3 - 8.5         | Brown, fine san  | ds with trace silts, poorl | ly graded, moist     | SP                   |                     |
| 10                 |               |                                 |          |          |             |  |                   |                  |                            |                      |                      | $\nabla$ 9.6 ft bgs |
|                    | 3             | 4.0/4.0                         |          |          |             |  | 8.5 - 12          | Light brown, fin | e sands with some silts.   | , poorly graded, wet | SM                   |                     |
| 11                 |               |                                 |          |          | 0.9         |  |                   |                  |                            |                      |                      |                     |
|                    |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| 12                 |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| Ĺ                  |               |                                 | <u> </u> | <u> </u> | <b>_</b>    | $\downarrow$                           |                   |                  |                            |                      | ]                    |                     |
| 13                 |               |                                 |          |          |             |  | 12.0 - 12.4       | Cave-in from ab  | oove                       |                      |                      |                     |
| 13                 |               |                                 |          |          | 0.9         | NOI                                    | 12.4 - 16.0       | Light brown, fin | e to medium sands, poo     | orly graded          | SP                   |                     |
| 1.4                |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| 14                 |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
|                    | 4             | 4.0/4.0                         |          |          | 0.9         |  |                   |                  |                            |                      |                      |                     |
| 15                 |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
|                    |               |                                 |          |          |             |  |                   |                  |                            |                      |                      |                     |
| 16                 |               |                                 |          |          |             |  |                   | Bottom of I      | Boring - 16' bgs           |                      |                      |                     |
| NOT                | TEC.          | No obser                        | woblo    | impoo    | nto.        |  | <u> </u>          | _ 5 01 1         |                            |                      |                      |                     |

**NOTES:** No observable impacts

Well installed 6 - 16 bgs

PID recalibrated after boring, reading 0.9 ppm as background ambient

|   | SC                | OIL BORING          | G LOG  |                       |                      |                     |
|---|-------------------|---------------------|--|-----------------------|----------------------|---------------------|
| <b>MACTEC</b>   | Project Name:     | Saranac Lak         | e Gas Company                                      |                       | Boring II            | D: SB/PZ-303        |
| <b>WIACIEC</b>  | Project Location: |                     | , NY   |                       | Page No.             | . 1                 |
| 511 Congress Street, Portland Maine 04101                         | Project No.: 361  | 11161193            | Client: NYSDE                                      | EC                    | of                   | : 1                 |
| Boring Location: ~50 ft east of SB-304                            | Refusal Depth:    | 7.5 ' bgs           | Total Depth:                                       | Total Depth: 7.5' bgs |                      | le ID/OD: 2.25"     |
| Weather: Overcast (35° F)   | Soil Drilled:     | 7.5'                | Method: Direct P                                   | Push                  | Casing S             |                     |
| Subcontractor: Precision Environmental                            | 1                 |                     | Protection Level:                                  | D                     | Sampler:             |                     |
| Oriller: Mike Dudley  | Date Started:     | 11/9/2016           | Date Completed:                                    | 11/9/2016             | Sampler              | ID/OD: 2.0"         |
| Rig Type/Model: Geoprobe/Bobcat                                   | Logged By:        | D. Farrell          | Checked By:  | B. Havens             |                      |                     |
| Reference Elevation:  | Water Level:      | ~ 2.5 ft bgs        | Time: 1115   |                       |                      |                     |
| Sample Information Monitoring                                     | 4                 |                     |  |                       |                      |                     |
| Sample Number Penetration/ Recovery (feet) PID  Waste Encountered |                   | Sample Descripti    | on and Classification                              |                       | USCS Group<br>Symbol | Remarks             |
|   | 0 - 2.0           | No recovery         |  |                       |                      |                     |
| 2 0.0 NOI   | 2.0 - 2.6         |                     | ge to light brown/dark gra<br>ly graded wet at 2.5 | ay, fine sands with   | Pt/SM                |                     |
| 3 1 4.0/2.0 0/0   | 2.6 - 4.0         | Gray fine to me     | dium sand, poorly graded                           | d wet                 | SP                   | $\sqrt{2.5}$ ft bgs |
| 4   |                   |                     | nable to collect core from                         |                       |                      |                     |
| 5 0.0 NOI   |                   | sampler due to      | buildup of fine sands                              |                       |                      |                     |
| 2 3.5/0.0   |                   | impacts             |  |                       | SP                   |                     |
| 7.5   |                   | graded, wet         | brown/gray, fine to med                            | num sand, poorty      |                      |                     |
|   |                   |                     |  |                       |                      |                     |
|   | Botton            | m of Boring - Refus | al at 7.5' bgs                                     |                       |                      |                     |
|   |                   |                     |  |                       |                      |                     |
| NOTES: No observable impacts Well installed 3 - 8' bgs            |                   |                     |  |                       |                      | SOIL BORING LOC     |

| 4                | 110           | NA                              | Λ         |              | CE        |                   | Project Name:     | Saranac Lak                        | e Gas Compa                              | ınv        |                    | Boring ID            | : SB/PZ-304  |
|------------------|---------------|---------------------------------|-----------|--------------|-----------|-------------------|-------------------|------------------------------------|--|------------|--------------------|----------------------|--------------|
|                  | 4             | IVI                             | A         | $\mathbf{C}$ | L         |                   | Project Location: |                                    |  |            |                    | Page No.             | 1            |
|                  | 511 (         | Congress S                      | Street, P | ortland Ma   | ine 04101 |                   | Project No.: 361  |                                    | Client: 1                                | NYSDE      | EC                 | of:                  | 1            |
| or               | ng Lo         | cation:                         |           |              |           |                   | Refusal Depth:    | NA                                 | Total Depth                              | 1:         | 12' bgs            | Bore Hole            | ID/OD: 2.25" |
| /ea              | ther:         | Overcas                         | st (35° l | F)           |           |                   | Soil Drilled:     | 12 '                               | Method: I                                | Direct F   | ush                | Casing Siz           | ze: 2.25"    |
| ub               | contra        | ctor:                           | Precis    | ion Envir    | onmental  |                   |                   |                                    | Protection L                             | Level:     | D                  | Sampler:             | Macrocore    |
| ril              | ler:          | Mike D                          | udley     |              |           |                   | Date Started:     | 11/9/2016                          | Date Compl                               | leted:     | 11/9/2016          | Sampler II           | D/OD: 2.0"   |
| ig               | Type/         | Model:                          | Geop      | robe/Bob     | eat       |                   | Logged By:        | D. Farrell                         | Checked By                               | y:         | B. Havens          |                      |              |
| ef               | erence        | Elevation                       | n:        |              |           |                   | Water Level:      | ~ 6.5 ft bgs                       | Time:                                    | 1040       |                    |                      |              |
|                  | Samp          | le Inforr                       | nation    |              | Monitor   | ing               |                   |                                    |  |            |                    |                      |              |
| Depth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |           | PID          |           | Waste Encountered |                   | Sample Descripti                   | ion and Classif                          | fication   |                    | USCS Group<br>Symbol | Remarks      |
|                  |               |                                 | П         |              |           |                   | 0 - 1.9           | No recovery                        |  |            |                    |                      |              |
| 1                |               |                                 |           | 0.0          | )         | NOI               |                   | •                                  |  |            |                    |                      |              |
| 2                | 1             | 4.0/2.1                         |           |              |           |                   | 1.9 - 2.9         | Organics, dark<br>leaves/twigs     | brown fine sand,                         | , trace si | lt, poorly graded  | SP                   |              |
| 3                | ]             | 4.0/2.1                         |           |              |           |                   | 2.9 - 4.0         | Light brown, fir                   | ne sand, poorly g                        | graded, r  | noist              | SP                   |              |
| 4                | ļ             |                                 |           |              |           | <u> </u>          | 40.40             |                                    |  |            |                    |                      |              |
| 5                |               |                                 |           |              |           |                   | 4.0 - 4.2         | No recovery                        |  |            |                    | SP                   |              |
|                  | 1             |                                 |           | 0.0          | )         | NOI               | 4.2 - 6.0         | Light brown/ora                    | ange, fine sand, p                       | poorly g   | raded, moist       |                      |              |
| 6                |               |                                 |           |              |           |                   | 6.0 - 7.8         | Light brown, fir                   | ne sands trace sil                       | lts, iron  | n water, wet       | SP                   |              |
|                  | 2             | 4.0/3.8                         |           |              |           |                   |                   |                                    |  |            |                    |                      |              |
| 7                |               |                                 |           |              |           |                   |                   |                                    |  |            |                    |                      | <u> </u>     |
| 8                |               |                                 |           |              |           | $\downarrow$      | 7.8 - 8.0         | Gray, fine sand                    | s with some silt,                        | wet        |                    | SM                   |              |
| 9                |               |                                 |           | 0.0          | )         | NOI               |                   | No recovery, ur sampler due to     | nable to collect co<br>buildup of fine s |            | macrocore          | SP                   |              |
| 10               |               | 10/25                           |           |              |           |                   |                   | What soil we put<br>impacts        | ush from sample                          | er shows   | no signs of waste  |                      |              |
| 11               | 3             | 4.0/2.8                         |           |              |           |                   |                   | - Soils are a light<br>graded, wet | brown/brown, f                           | fine to m  | edium sand, poorly | SP                   |              |
| 12               |               |                                 |           |              |           | $\downarrow$      |                   |                                    |  |            |                    |                      |              |

NOTES: No observable impacts

Well installedfrom 1 - 11 ' bgs

| 4                  | Mar           | N A                             | Λ         | CT           | TC                | Project Name:    | Saranac Lai                          | ke Gas Company                               |                       | Boring ID            | : SB/PZ-318         |
|--------------------|---------------|---------------------------------|-----------|--------------|-------------------|------------------|--------------------------------------|--|-----------------------|----------------------|---------------------|
|                    |               | IVI                             | A         | $\cup$ 1     | EC                | Project Location |                                      |  |                       | Page No.             | 1                   |
|                    |               |                                 |           | rtland Maine |                   | Project No.: 36  |                                      | Client: NYS                                  | DEC                   | of:                  | 1                   |
| or                 | ing Lo        | cation:                         | Front y   | ard of forec | losed home        | Refusal Depth:   | NA                                   | Total Depth:                                 | 12' bgs               | Bore Hole            | ID/OD: 2.25"        |
| тeа                | ther:         | Overcas                         | t (40° F  | )            |                   | Soil Drilled:    | 12'                                  | Method: Direc                                | t Push                | Casing Siz           | ze: 2.25"           |
| ub                 | contra        | ctor:                           | Precision | on Environi  | nental            |                  |                                      | Protection Level                             | D                     | Sampler:             | Macrocore           |
| ril                | ler:          | Mike D                          | udley     |              |                   | Date Started:    | 11/9/2016                            | Date Completed:                              | 11/9/2016             | Sampler II           | D/OD: 2.0"          |
| ig                 | Type/         | Model:                          | Geopre    | obe/Bobcat   |                   | Logged By:       | D. Farrell                           | Checked By:                                  | B. Havens             |                      |                     |
| ef                 | erence        | Elevation                       | n:        |              |                   | Water Level:     | ~ 3.0 ft bgs                         | Time: 1430                                   |                       |                      |                     |
|                    | Samp          | ole Inform                      | nation    | M            | onitoring         |                  |                                      |  |                       |                      |                     |
| C Depth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |           | PID          | Waste Encountered |                  | Sample Descript                      | ion and Classificati                         | on                    | USCS Group<br>Symbol | Remarks             |
|                    | Î             |                                 |           |              |                   | 0 - 1.9          | No recovery                          |  |                       |                      |                     |
| 1                  |               |                                 |           | 0.0          | NOI               |                  |                                      |  |                       |                      |                     |
| 2                  |               |                                 |           |              |                   | 1.9 - 2.0        | Organics, dark<br>leaves/twigs       | brown fine sand, trace                       | silt, poorly graded   | SP                   |                     |
| 3                  | 1             | 4.0/2.1                         |           |              |                   | 2.0 - 3.7        | Light brown/lig<br>trace silts, well | ght gray, fine sand with graded              | some gravel with      | SP                   | $\sqrt{3.0}$ ft bgs |
| 4                  |               |                                 |           |              |                   | 3.7 - 4.0        | Gray, fine to m                      | nedium sand, poorly gr                       | aded, wet             | SP                   |                     |
| 5                  |               |                                 |           | 0.0          | NOI               |                  | _ Much of the m<br>looseness of so   | acrocore sample fell or<br>oils. NOI in soil | nto table due to      | SP                   |                     |
| 6                  | 2             | 4.0/0.6                         |           |              |                   |                  |                                      |  |                       |                      |                     |
| 7                  |               |                                 |           |              |                   |                  | Soils are a gray                     | , fine to medium sand                        | , poorly graded, wet  | SP                   |                     |
| 8                  | ļ             |                                 |           |              | <u> </u>          |                  |                                      |  |                       |                      |                     |
| 9                  |               |                                 |           |              |                   | 8.0 - 8.8        | Gray, fine to m                      | nedium sand, poorly gr                       | aded, wet             | SP                   |                     |
| 10                 |               |                                 |           | 0.0          | NOI               | 8.8 - 11.0       | Dark brown/da<br>graded, wet         | ark gray, fine sands wit                     | h trace silts, poorly |                      |                     |
| 11                 | 3             | 4.0/4.0                         |           |              |                   | 11.0 - 12.0      | Gray, fine sand                      | ls with trace grave, poo                     | orly graded, wet      | SP                   |                     |
| 12                 |               |                                 |           |              |                   |                  |                                      |  |                       |                      |                     |

**NOTES:** No observable impacts Well installed 3 - 8' bgs

|                    | SOIL BORING LOG |                                 |         |        |            |                   |                  |                                  |                                     |                      |                      |                     |
|--------------------|-----------------|---------------------------------|---------|--------|------------|-------------------|------------------|----------------------------------|-------------------------------------|----------------------|----------------------|---------------------|
| 2                  | 10              | NA                              | Δ       | (      | Т          | EC                | Project Name:    | Saranac Lak                      | e Gas Company                       |                      | Boring II            | D: SB-319           |
|                    | ▋.              | TAT                             |         | 1      | L          | LC                | Project Location | : Saranac Lake,                  | NY                                  |                      | Page No.             | 1                   |
|                    | 511 C           | Congress S                      | Street, | Portla | nd Maine ( | 04101             | Project No.: 36  | 11161193                         | Client: NYSD                        | EC                   | of                   | : 1                 |
| Borii              | ng Lo           | cation:                         | Slate   | r Ave  | corner     |                   | Refusal Depth:   | NA                               | Total Depth:                        | 16' bgs              | Bore Hol             | e ID/OD: 2.25"      |
| Weat               | her:            | Overcas                         | t (35°  | ) F)   |            |                   | Soil Drilled:    | 16'                              | Method: Direct                      | Push                 | Casing S             | ize: 2.25"          |
| _                  | ontra           |                                 |         | sion l | Environm   | nental            |                  |                                  | Protection Level:                   | D                    | Sampler:             |                     |
| Drill              |                 | Mike D                          |         |        |            |                   | Date Started:    | 11/10/2016                       | Date Completed:                     | 11/10/2016           | Sampler              | ID/OD: 2.0"         |
| <u> </u>           | * 1             | Model:                          |         | probe  | /Bobcat    |                   | Logged By:       | D. Farrell                       | Checked By:                         | B. Havens            |                      |                     |
|                    |                 | Elevation                       |         |        | 2.4        | ., .              | Water Level:     | ~ 4.2 ft bgs                     | Time: 805                           |                      |                      |                     |
| _                  | Samp            | le Inforn                       | nation  | 1      | Mo         | onitoring         | -                |                                  |                                     |                      |                      |                     |
| O Depth (feet bgs) | Sample Number   | Penetration/<br>Recovery (feet) |         |        | CIIA       | Waste Encountered |                  | Sample Descripti                 | on and Classification               | 1                    | USCS Group<br>Symbol | Remarks             |
| ,                  |                 |                                 |         |        |            |                   | 0 - 2.3          | No recovery                      |                                     |                      |                      |                     |
| 1                  |                 |                                 |         |        | 0.0        | NOI               | 2.3 - 2.4        | Brown, organics                  | s, poorly graded fill/tops          | soil                 | SP                   |                     |
| 2                  | 1               | 4.0/1.7                         |         |        | 0.0        |                   | 2.4 - 4.0        | Dark brown, fin<br>gravel, moist | e to medium sand with               | trace silts, trace   | SP                   |                     |
| 3                  |                 |                                 |         |        |            |                   |                  |                                  |                                     |                      |                      |                     |
| 4                  |                 |                                 |         |        |            |                   |                  |                                  |                                     |                      |                      | $\sqrt{4.2}$ ft bgs |
| 5                  |                 |                                 |         |        |            |                   |                  |                                  | ery due to loose soils              |                      | SP                   |                     |
| $\vdash$           |                 |                                 |         |        |            | NOI               |                  |                                  |                                     |                      |                      |                     |
| 6                  | 2               | 4.0/0.9                         |         |        |            |                   |                  |                                  |                                     |                      |                      |                     |
| 7                  |                 |                                 |         |        |            |                   | 7.1 - 8.0        | Brown, fine to r                 | nedium sand with trace              | silts, trace gravel. | SP                   |                     |
| 8                  |                 |                                 |         |        |            |                   |                  | poorly graded                    |                                     | sha, trace graves,   |                      |                     |
| 9                  |                 |                                 |         |        |            |                   |                  | - Very little recov              | ery due to loose soils              |                      |                      |                     |
| 10                 |                 |                                 |         |        |            | NOI               |                  | Toe of macroconsand, wet, poorl  | re sampler has dark bro<br>y graded | wn fine to medium    | SP                   |                     |
| 11                 | 3               | 4.0/0.6                         |         |        |            |                   |                  |                                  |                                     |                      |                      |                     |
| 12                 |                 |                                 |         |        |            |                   |                  |                                  |                                     |                      |                      |                     |
| 13                 |                 |                                 |         |        |            | ¥                 | 12.0 - 12.2      | No Recovery                      |                                     |                      |                      |                     |
| 13                 |                 |                                 |         |        |            | NOI               | 12.2 - 14.1      | Brown, fine to n                 | nedium sand, poorly gra             | aded, wet            | SP                   |                     |
| 1.4                |                 |                                 |         |        |            |                   | 14.2 - 14.6      | Light brown, fin                 | ne sand, poorly graded,             | wet                  | SP                   |                     |
| 15                 | 4               | 4.0/3.8                         |         |        |            |                   | 14.6 - 16.0      | Dark brown, me graded, wet       | edium sand with trace g             | ravel, poorly        | SP                   |                     |
| 1.0                |                 |                                 |         |        |            |                   |                  |                                  |                                     |                      |                      |                     |
| 16                 | TEG.            | No obser                        | voblo i | mnaci  | te         |                   |                  | Bottom of I                      | Boring - 16" bgs                    |                      |                      |                     |

**NOTES:** No observable impacts

| 1110-                                      |  | Duning Manage                    | IL BORIN                     |  |                  | Boring ID:                                       | SB-303 (attempt 1) |
|--|--|----------------------------------|------------------------------|--|------------------|--|--------------------|
| M M A (                                    | CTEC   |                                  |                              | ke Gas Company                                       |                  |  |                    |
| Total and Anna Statement                   | and the state of t | Troject Eccution.                | Saranac Lake                 |  |                  | Page No.   | 1                  |
| 511 Congress Street, Portl                 |  | Project No.: 361                 |                              | Client: NYSD   |                  | of:  | 1                  |
| oring Location: N bank o                   | of BB along Slater   | Refusal Depth:                   | 6 'bgs                       | Total Depth:   | 6' bgs           | Bore Hole I                                      |                    |
| Yeather: Overcast (45° F)                  |  | Soil Drilled:                    | 6'                           | Method: Direct                                       |                  | Casing Size                                      |                    |
|  | Environmental  |                                  |                              | Protection Level:                                    | D                | Sampler:   | Macrocore          |
| riller: Mike Dudley                        |  | Date Started:                    | 11/9/2016                    | Date Completed:                                      | 11/9/2016        | Sampler ID                                       | /OD: 2.0"          |
| g Type/Model: Geoprob                      | e/Bobcat   | Logged By:                       | D. Farrell                   | Checked By:  | B. Havens        |  |                    |
| eference Elevation:                        | T  | Water Level:                     | NA                           | Time: 1500   |                  | <del>                                     </del> |                    |
| Sample Information                         | Monitoring   |                                  |                              |  |                  |  |                    |
| Sample Number Penetration/ Recovery (feet) | PID Waste Encountered  | S                                | Sample Descrip               | tion and Classification                              | n                | USCS Group<br>Symbol                             | Remarks            |
| 1  |  | 0 - 2.7                          | No recovery                  |  |                  | GD.  |                    |
| 2  | 0.0 NOI  | 2.7 - 3.5                        | Brown, fine sa               | nd with trace silts, dry, p                          | ooorly graded    | SP   |                    |
| 1 4.0/1.3                                  | 0/0  |                                  |                              |  |                  |  |                    |
| 4  | 3.2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \  | 3.5 - 4.0                        | fill materials (a            | y stained, fine to medium<br>sphalt/gravel) (MGP ode | or)              | SP / Fill  |                    |
|  | 4.0  | 4.0 - 4.6                        | No Recovery                  |  |                  | 1  |                    |
| 5  | 3.8  | 4.6 - 6.0                        | Stained / brow<br>(MGP Odor) | n, medium to fine sands                              | with trace silts | SP / Fill  |                    |
| 6  |  |                                  |                              |  |                  |  |                    |
|  |  | Bottom<br>due to subsurface wood | of Boring - Refu             |  |                  | <u> </u>   |                    |
|  |  |                                  |                              |  |                  |  |                    |
|  |  |                                  |                              |  |                  |  |                    |
|  |  |                                  |                              |  |                  |  |                    |

| Saranac Lake, NY Project Location: Saranac Lake, NY Project Location: Saranac Lake, NY Project No.: 3611161193 Client: NYSDEC of: 1  Indianaction: 5' East of SB-320 (1) Refusal Depth: 6' bgs Total Depth: 6' bgs Bore Hole ID/OD: 2.25"  Boontractor: Precision Environmental iller: Mike Dudley Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler: Macrocore illerence Elevation:  Sample Information Monitoring  Date Started: NA Time: 1510  Sample Information Monitoring  One of the project Location and Classification  Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  Special  | Project Location:   Saranac Lake Gas Company   |               | and the state of                | 10-010-01 | And the last of the | HIPTOTE SZELE     |                   | IL BORIN          | G-LOU                     |                      | Doring ID            | CD 202 (attament ) |  |
|--|--|---------------|---------------------------------|-----------|---------------------|-------------------|-------------------|-------------------|---------------------------|----------------------|----------------------|--------------------|--|
| Sill Congress Street, Portland Maine 04101 Project No.: 3611161193 Client: NYSDEC of: 1  Project No.: 3611161193 Client: NYSDEC of: 1  Project No.: 3611161193 Client: NYSDEC of: 1  Protection Level: Obsambler: 6' bgs Bore Hole ID/OD: 2.25"  Bore  | S11 Congress Street, Portland Maine 04101 Project No.: 3611161193 Client: NYSDEC of: 1 Idoring Location: 5' East of SB-320 (1) Refusal Depth: 6' bgs Total Depth: 6' bgs Bore Hole ID/OD: Veather: Overcast (45° F) Soil Drilled: 6' Method: Direct Push Casing Size: 2.2: abcontractor: Precision Environmental Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler: Ma Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler ID/OD: Sample Information Water Level: NA Time: 1510  Sample Information Monitoring  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classification  Output Date Started: NA Time: 1510  Sample Description and Classificatio | 2101          | M                               | 11        | T                   | $\mathbf{F}$      | Project Name:     | Saranac Lai       | ke Gas Company            |                      | Boring ID            | SB-303 (attempt 2  |  |
| ring Location: 5' East of SB-320 (1)  Refusal Depth: 6' bgs Total Depth: 6' bgs Bore Hole ID/OD: 2.25"  cather: Overcast (45° F) Soil Drilled: 6' Method: Direct Push Casing Size: 2.25"  becontractor: Precision Environmental liler: Mike Dudley Type/Model: Geoprobe/Bobcat | oring Location: 5' East of SB-320 (1)  Refusal Depth: 6' bgs  Rore Hole ID/OD:  Refusal Depth: 6' bgs  Rore Hole ID/OD:  Refusal Depth: 6' bgs  Rore Hole ID/OD:  Rore Hole ID |               | IAT                             | 7         | <b>⊥</b> .          | LC                | Project Location: | Saranac Lake      | e, NY                     |                      | Page No.             | 1                  |  |
| eather: Overcast (45° F) beontractor: Precision Environmental  Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler: Macrocore  Type/Model: Geoprobe/Bobcat  Logged By: D. Farrell Checked By: B. Havens  ference Elevation: Water Level: NA Time: 1510  Sample Information Monitoring  Type/Model: Geoprobe/Bobcat  Sample Information Monitoring  Sample Description and Classification  Sample Description and C | Veather: Overcast (45° F)   Soil Drilled: 6'   Method: Direct Push   Casing Size: 2.2:   |               |                                 |           |                     |                   | Project No.: 3611 | 161193            | Client: NYSD              | EC                   | of:                  | 1                  |  |
| beontractor: Precision Environmental    Protection Level: D   Sampler: Macrocore   | Abcontractor: Precision Environmental riller: Mike Dudley Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler: Maintended in the Dudley Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler ID/OD: Sampler ID/OD: Sampler ID/OD: Sampler ID/OD: Sampler ID/OD: Sampler ID/OD: Sample Information: Water Level: NA Time: 1510  Sample Information Monitoring Sample Description and Classification  Sample De | oring Loc     | cation: 5                       | ' East of | f SB-320 (1         | 1)                | Refusal Depth:    | 6 ' bgs           | Total Depth:              | 6' bgs               | Bore Hole            | e ID/OD: 2.25"     |  |
| iller: Mike Dudley g Type/Model: Geoprobe/Bobcat Logged By: D. Farrell Checked By: B. Havens ference Elevation:  Sample Information Monitoring G Jag July July July July July July July July   | Tiller: Mike Dudley  Date Started: 11/9/2016 Date Completed: 11/9/2016 Sampler ID/OD:  Type/Model: Geoprobe/Bobcat  Eference Elevation:  Sample Information  Monitoring  Sample Information  Monitoring  Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  O-1.9  No recovery  1   | eather:       | Overcast                        | (45° F)   |                     |                   | Soil Drilled:     | 6'                | Method: Direct            | Push                 | Casing Size: 2.25"   |                    |  |
| g Type/Model: Geoprobe/Bobcat ference Elevation:  Sample Information  Monitoring  Graph John John John John John John John Joh   | Ig Type/Model: Geoprobe/Bobcat Logged By: D. Farrell Checked By: B. Havens efference Elevation:  Sample Information Monitoring  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Information Monitoring  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  Sample Description and Classification  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  SP Fill  Geoprobe/Bobcat Water Level: NA Time: 1510  SP Fi | bcontrac      | ctor: P                         | recision  | Environm            | ental             |                   |                   | Protection Level:         | D                    | Sampler:             | Macrocore          |  |
| Sample Information   Monitoring   Sample Information   Monitoring   Sample Description and Classification   Sample Description   | Sample Information  Sample Information  Monitoring  Sample Information  Monitoring  Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  One of the part of | iller:        | Mike Dud                        | lley      |                     |                   | Date Started:     | 11/9/2016         | Date Completed:           | 11/9/2016            | Sampler I            | D/OD: 2.0"         |  |
| Sample Information Monitoring    Sample Information   Monitoring   Mon | Sample Information   Monitoring   Gapan   Gapan   Monitoring   Gapan   Ga | g Type/N      | Model: (                        | Geoprob   | e/Bobcat            |                   | Logged By:        | D. Farrell        | Checked By:               | B. Havens            |                      |                    |  |
| Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  Output  O | Sample Description and Classification  Graph (100  |               |                                 |           | Ţ                   |                   | Water Level:      | NA                | Time: 1510                |                      |                      |                    |  |
| 0 - 1.9 No recovery  1   | 1  |               | le Informa                      | tion      | Mo                  |                   | _                 |                   |                           |                      |                      |                    |  |
| Double 1.9 - 3.5  Brown/light brown, fine sand with trace silts, dry, poorly graded  2.0  2.0  3.5 - 4.0  Brown / slightly stained, fine to medium sands with some fill materials (asphalt/gravel) (MGP odor)  4.0  3.8  4.0 - 4.5  No Recovery  SP / Fill  Bottom of Boring - Refusal at 6.0' bgs   | 1  | Sample Number | Penetration/<br>Recovery (feet) |           | PID                 | Waste Encountered | S                 | ample Descript    | tion and Classification   | 1                    | USCS Group<br>Symbol | Remarks            |  |
| 1 4.0/2.1 0/0 SP Brown/light brown, fine sand with trace silts, dry, poorly graded  2.0 3.5 - 4.0 Brown / slightly stained, fine to medium sands with some fill materials (asphalt/gravel) (MGP odor)  4.0 4.0 - 4.5 No Recovery  3.8 A.5 - 6.0 Same as above  Bottom of Boring - Refusal at 6.0' bgs  | Double 1.9 - 3.5 Brown/light brown, fine sand with trace silts, dry, poorly graded  1 4.0/2.1 0/0 3.5 - 4.0 Brown / slightly stained, fine to medium sands with some fill materials (asphalt/gravel) (MGP odor)  4.0 4.0 - 4.5 No Recovery  3.8 4.5 - 6.0 Same as above  Bottom of Boring - Refusal at 6.0' bgs  |               |                                 |           |                     |                   | 0 - 1.9           | No recovery       |                           |                      |                      |                    |  |
| 2.0  3.5 - 4.0  Brown / slightly stained, fine to medium sands with some fill materials (asphalt/gravel) (MGP odor)  4.0  4.0 - 4.5  No Recovery  3.8  Bottom of Boring - Refusal at 6.0' bgs  | 3 2.0 2.0 Brown / slightly stained, fine to medium sands with some fill materials (asphalt/gravel) (MGP odor)  4.0 4.0 - 4.5 No Recovery  3.8 4.5 - 6.0 Same as above  Bottom of Boring - Refusal at 6.0' bgs  | 2             | 40/21                           |           | 0.0                 | NOI               | 1.9 - 3.5         |                   | own, fine sand with trace | e silts, dry, poorly | SP                   |                    |  |
| Odor fill materials (asphalt/gravel) (MGP odor)  4.0 4.0 4.5 No Recovery  3.8 4.5 - 6.0 Same as above  Bottom of Boring - Refusal at 6.0' bgs  | Odor fill materials (asphalt/gravel) (MGP odor)  4.0   | 3             | 4.0/2.1                         |           |                     |                   | 3.5 - 4.0         | Brown / slightl   | v stained, fine to mediur | n sands with some    | SP / Fill            |                    |  |
| 3.8 4.0 4.5 No Recovery 4.5 - 6.0 Same as above  SP / Fill  Bottom of Boring - Refusal at 6.0' bgs   | 5 4.0 4.0 - 4.5 No Recovery 4.5 - 6.0 Same as above  Bottom of Boring - Refusal at 6.0' bgs  | 1             |                                 |           |                     | Odor              |                   | fill materials (a | or)                       |                      |                      |                    |  |
| 3.8 4.5 - 6.0 Same as above SP / Fill  Bottom of Boring - Refusal at 6.0' bgs  | 3.8 4.5 - 6.0 Same as above SP / Fill  Bottom of Boring - Refusal at 6.0' bgs  |               |                                 |           | 4.0                 |                   |                   | No Recovery       |                           | 1                    |                      |                    |  |
| Bottom of Boring - Refusal at 6.0' bgs   | Bottom of Boring - Refusal at 6.0' bgs   |               |                                 |           | 3.8                 |                   | 4.5 - 6.0         | Same as above     |                           |                      | SP / Fill            |                    |  |
| Bottom of Boring - Refusal at 6.0' bgs   | Bottom of Boring - Refusal at 6.0' bgs   |               |                                 |           |                     |                   |                   |                   |                           |                      |                      |                    |  |
|  |  | 5             |                                 |           |                     |                   |                   |                   |                           |                      |                      |                    |  |
|  |  |               |                                 |           |                     | Ť                 | Rottom            | of Boring - Refu  | sal at 6.0' hos           |                      |                      |                    |  |
|  |  |               |                                 |           |                     |                   |                   |                   |                           |                      |                      |                    |  |

|                    | SOIL BORING LOG |                                 |         |         |            |                   |                   |                                   |                              |            |   |                      |                       |
|--------------------|-----------------|---------------------------------|---------|---------|------------|-------------------|-------------------|-----------------------------------|------------------------------|------------|---|----------------------|-----------------------|
| 2                  | 10              | NA                              | Λ       | 1       | T          | EC                | Project Name:     | Saranac Lak                       | e Gas Compan                 | ny         |   | Boring II            | D: SB-303 (attempt 3) |
|                    |                 | IAT                             |         | 1       | L          | LC                | Project Location: | Saranac Lake,                     | NY                           |            |   | Page No.             | . 1                   |
|                    | 511 C           | Congress S                      | Street, | Portla  | nd Maine ( | 04101             | Project No.: 3611 | 161193                            | Client: N                    | YSDE       | С                                       | of                   | f: 1                  |
| Bori               | ng Lo           | cation:                         | 5' Ea   | st of   | SB-320 (   | 1)                | Refusal Depth:    | 8.3 ' bgs                         | Total Depth:                 |            | 8.3' bgs                                | Bore Hol             | le ID/OD: 2.25"       |
| Wear               | ther:           | Overcas                         | st (45° | ° F)    |            |                   | Soil Drilled:     | 8.3'                              | Method: Di                   | irect Pu   | ush                                     | Casing S             | ize: 2.25"            |
| Subc               | ontra           | ctor:                           | Preci   | ision l | Environn   | nental            |                   |                                   | Protection Le                | evel:      | D                                       | Sampler:             | Macrocore             |
| Drill              | er:             | Mike D                          | udley   |         |            |                   | Date Started:     | 11/9/2016                         | Date Complet                 | eted:      | 11/9/2016                               | Sampler              | ID/OD: 2.0"           |
| Rig '              | Гуре/           | Model:                          | Geoj    | probe   | /Bobcat    |                   | Logged By:        | D. Farrell                        | Checked By:                  |            | B. Havens                               |                      |                       |
| Refe               | rence           | Elevatio                        | n:      |         |            |                   | Water Level:      | ~5.8' bgs                         | Time: 15                     | 530        |   |                      |                       |
|                    | Samp            | le Inform                       | nation  | ı       | Mo         | onitoring         |                   |                                   |                              |            |   |                      |                       |
| O Depth (feet bgs) | Sample Number   | Penetration/<br>Recovery (feet) |         |         | QIA        | Waste Encountered | Sa                | ample Descripti                   | on and Classific             | cation     |   | USCS Group<br>Symbol | Remarks               |
| 1                  |                 |                                 |         |         |            |                   | 0 - 2.0           | No recovery                       |                              |            |   |                      |                       |
|                    |                 |                                 |         |         | 0.0        | NOI               | 2.0 - 2.2         | Brown, organics                   | s, grass, fine sand.         | l, dry     |   | SP                   |                       |
| 2                  | 1               | 4.0/2.0                         |         |         |            |                   | 2.2 - 3.8         | Light brown, fir<br>poorly graded | ne to medium sand            | d, some    | gravel, moist,                          |                      |                       |
| 3                  |                 |                                 |         |         | 0/0        |                   |                   |                                   |                              |            |   |                      |                       |
| 4                  |                 |                                 |         |         |            |                   | 3.8 - 4.0         | Dark gray, fine                   | sand with trace sil          | ilts, mois | st, poorly graded                       | SP / SM              |                       |
| _                  |                 |                                 |         |         |            |                   | 4.0 - 4.6         | No Recovery                       |                              |            | *************************************** | 1                    |                       |
| 5                  |                 |                                 |         |         |            | NOI               | 4.6 - 5.8         | Same as 3.4 - 4.                  | 0                            |            |   | SP / Fill            |                       |
| 6                  | 2               | 4.0/2.4                         |         |         |            |                   | 5.8               | Same as above,                    | becomes wet                  |            |   |                      | abla 5.8 ft bgs       |
| 7                  | 2               | 4.0/3.4                         |         |         |            |                   | 5.8 - 6.1         | Dark brown/blagraded, wet and     | ck lens of fine san<br>loose | nd with    | trace silts, poorly                     | SP / Fill            |                       |
| 8                  |                 |                                 |         |         |            | $\downarrow$      | 6.1 - 8.0         | Gray, fine sands                  | s with some silts, I         | poorly g   | graded                                  |                      |                       |
| 8.3                | 3               | 0.3/0.3                         |         |         |            | NOI               | 8.0 - 8.3         | Same as above                     |                              | •••••      |   |                      |                       |

Bottom of Boring - Refusal at 8.3' bgs
Refusal was due to subsurface wood structure (potentially cribbing lining bank of Brand Brook)

NOTES: - No observable impacts

| SOIL BORING LOG  |  |                                  |                                     |                       |                      |                 |  |  |  |  |  |
|--|--|----------------------------------|-------------------------------------|-----------------------|----------------------|-----------------|--|--|--|--|--|
| <b>MMACTEC</b>   | Project Name: Saranac Lake Gas Company  Project Location: Saranac Lake. NY  Page No. 1 |                                  |                                     |                       |                      |                 |  |  |  |  |  |
| MINCIEC  | Project Location:  |                                  |                                     |                       | Page No.             | . 1             |  |  |  |  |  |
| 511 Congress Street, Portland Maine 04101                        | Project No.: 361   | 1161193                          | Client: NYSDI                       | EC                    | of                   | f: 1            |  |  |  |  |  |
| Boring Location: NBT Bank Parking Lot                            | Refusal Depth:   | 9.2                              | Total Depth:                        | 9.2' bgs              | Bore Hol             | le ID/OD: 2.25" |  |  |  |  |  |
| Weather: Overcast (30° F)  | Soil Drilled:  | 9.2 '                            | Method: Direct I                    | Push                  | Casing S             | size: 2.25"     |  |  |  |  |  |
| Subcontractor: Precision Environmental                           |  |                                  | Protection Level:                   | D                     | Sampler:             | Macrocore       |  |  |  |  |  |
| Driller: Mike Dudley   | Date Started:  | 11/10/2016                       | Date Completed:                     | 11/10/2016            | Sampler              | ID/OD: 2.0"     |  |  |  |  |  |
| Rig Type/Model: Geoprobe/Bobcat                                  | Logged By:   | D. Farrell                       | Checked By:                         | B. Havens             |                      |                 |  |  |  |  |  |
| Reference Elevation:   | Water Level:   | ~ 3.5 ft bgs                     | Time: 715                           |                       |                      |                 |  |  |  |  |  |
| Sample Information Monitoring                                    |  |                                  |                                     |                       |                      |                 |  |  |  |  |  |
| Sample Number Penetration/ Recovery (feet) PID Waste Encountered |  | Sample Descripti                 | on and Classification               |                       | USCS Group<br>Symbol | Remarks         |  |  |  |  |  |
| 1 0.0 NOI  | 0 - 1.9  | No recovery                      |                                     |                       |                      |                 |  |  |  |  |  |
|  | 10.22  | A 1 1: 1 2                       | 9                                   |                       |                      |                 |  |  |  |  |  |
| 2  | 1.9 - 2.3  | Asphalt and fill                 | SOII                                |                       |                      |                 |  |  |  |  |  |
| 3 1 4.0/2.1  | 2.3 - 3.3  | Brown, fine to a graded          | medium sand with some               | gravel, dry, poorly   |                      |                 |  |  |  |  |  |
| 4  |  | ▽ 3.5 ft bgs                     |                                     |                       |                      |                 |  |  |  |  |  |
| 5 0.0 NOI  | 4.0 - 5.6  | No recovery                      |                                     |                       |                      |                 |  |  |  |  |  |
| 2 4.0/2.4  | 5.6 - 7.5  | Gray/bown, fine graded, wet      | e to medium sand with tr            | race silts, poorly    |                      |                 |  |  |  |  |  |
| 8  | 7.5 - 8.0  | graded, wet                      | pper, fine sands with sor           |                       |                      |                 |  |  |  |  |  |
| 9 3 1.2/1.2 0.0 NOI  | 8.0 - 8.2  | Brown, fine to a bacterial sheen | medium loose sands with<br>on water | n trace silts, slight |                      |                 |  |  |  |  |  |
| 10   | 8.2 - 9.2  | Light brown, fin                 | ne to medium sand with              | some gravel, trace    |                      |                 |  |  |  |  |  |
|  | Botto  | m of Boring - Refu               | sal - 9.2' bgs                      |                       |                      |                 |  |  |  |  |  |
|  |  |                                  |                                     |                       |                      |                 |  |  |  |  |  |
| NOTES: No observable impacts                                     |  |                                  |                                     |                       |                      | SOIL BORING LOG |  |  |  |  |  |

| SOIL BORING LOG  |   |  |  |           |                 |  |  |  |  |  |  |
|--|---|--|--|-----------|-----------------|--|--|--|--|--|--|
| <b>₩\\</b> /\ Δ  | CTEC                                      | Project Name:  | Lake Gas Company   | Boring II | D: SB-323       |  |  |  |  |  |  |
| IVIT:  | CILC                                      | Project Location: Saranac  | Lake, NY   | Page No.  | . 1             |  |  |  |  |  |  |
| 511 Congress Street,                                     | Portland Maine 04101                      | Project No.: 3611161193  | Client: NYSDEC   | of        | f: 1            |  |  |  |  |  |  |
| Boring Location: In lav                                  | wn of bank entrance                       | Refusal Depth: NA  | Total Depth: 16' bgs   | Bore Hol  | le ID/OD: 2.25" |  |  |  |  |  |  |
| Weather: Overcast (35°                                   | ° F)                                      | Soil Drilled: 16'  | Method: Direct Push  | Casing S  | ize: 2.25"      |  |  |  |  |  |  |
|  | ision Environmental                       |  | Protection Level: D  | Sampler:  |                 |  |  |  |  |  |  |
| Driller: Mike Dudley                                     |   | Date Started: 11/11/20   | 1  | Sampler   | ID/OD: 2.0"     |  |  |  |  |  |  |
| Rig Type/Model: Geo                                      | probe/Bobcat                              | Logged By: D. Farrel   | •  |           |                 |  |  |  |  |  |  |
| Reference Elevation:                                     |   | Water Level: ~ 3.8 ft b  | gs Time: 835   |           |                 |  |  |  |  |  |  |
| Sample Information                                       |   | 4  |  |           |                 |  |  |  |  |  |  |
| Sample Number Penetration/ Recovery (feet)               | 0.0                                       |  |  |           |                 |  |  |  |  |  |  |
| 1  |   | 0 - 1.7 No Recov   | ery  |           |                 |  |  |  |  |  |  |
| 1 4.0/3.0  | SP/Fill                                   |  |  |           |                 |  |  |  |  |  |  |
| 4  | → moist to wet at 3.8' bgs, poorly graded |  |  |           |                 |  |  |  |  |  |  |
| 5  | NOI                                       | 4.0 - 5.6 No Recov   | ery  |           |                 |  |  |  |  |  |  |
| 6  | Not                                       | 5.6 - 6.8 Same as 3  | .4 - 4.0   | SP/Fill   |                 |  |  |  |  |  |  |
| 7 2 4.0/3.7  |   |  | ncrete remnants, fine crushed concrete mix with a sand as above, wet | SP/Fill   |                 |  |  |  |  |  |  |
| 8  |   | 6.8 - 8.0 Dark gray<br>graded, w                                   | , fine sands with trace silts, trace gravel, poorly et               | SP        |                 |  |  |  |  |  |  |
| 9  | NOI                                       | 8.0 - 10.6 Dark gray<br>wet  | , medium sands with trace silts, poorly graded,                      | SP        |                 |  |  |  |  |  |  |
| 3 4.0/4.0  |   | SP   |  |           |                 |  |  |  |  |  |  |
|  |   |  |  |           |                 |  |  |  |  |  |  |
| 13   | NOI                                       | Poor Recovery  |  |           |                 |  |  |  |  |  |  |
| 14   |   | The 1.0' of soil logged was tapped                                 | out of macrocore.  |           |                 |  |  |  |  |  |  |
| 4 4.0/4.0  |   | Light brown, medium sand with trace silts, poorly graded, wet, NOI |  |           |                 |  |  |  |  |  |  |
| Bottom of Boring - 16" bgs  NOTES: No observable impacts |   |  |  |           |                 |  |  |  |  |  |  |

**NOTES:** No observable impacts

| SOIL BORING LOG  |                       |           |         |              |          |           |                       |                           |                          |                      |            |                     |
|--|-----------------------|-----------|---------|--------------|----------|-----------|-----------------------|---------------------------|--------------------------|----------------------|------------|---------------------|
| 1  | 10                    | NΛ        | Δ       | (            | т        | EC        | Project Name:         | Saranac Lak               | e Gas Company            |                      | Boring II  | D: SB-324           |
|  |                       | TAT       | 1       | 1            | 11       | L         | Project Location      |                           | , NY                     |                      | Page No. 1 |                     |
|  |                       |           |         |              | nd Maine |           | Project No.: 36       |                           | Client: NYSD             |                      | of         |                     |
| _  | <u> </u>              |           |         |              | bank ent | rance     | Refusal Depth:        |                           |                          |                      | -          | le ID/OD: 2.25"     |
| Weat   | her:                  | Overcas   |         |              |          |           | Soil Drilled:         |                           |                          |                      | Casing S   |                     |
| _  | ontra                 |           |         | ision I      | Environn | nental    |                       |                           | Protection Level:        | D                    | Sampler:   |                     |
| Drille   |                       | Mike Du   |         |              |          |           | Date Started:         | 11/11/2016                | Date Completed:          | 11/11/2016           | Sampler    | ID/OD: 2.0"         |
|  |                       | Model:    |         | probe        | /Bobcat  |           | Logged By:            | D. Farrell                | Checked By:              | B. Havens            |            |                     |
|  |                       | Elevatio  |         |              |          |           | Water Level:          | ~ 3.8 ft bgs              | Time: 835                |                      |            |                     |
| -  | Samp                  | le Inforn | natior  | 1            | Mo       | onitoring |                       |                           |                          |                      |            |                     |
| O Depth (feet bgs)   | 0.0 %                 |           |         |              |          |           |                       |                           | n                        | USCS Group<br>Symbol | Remarks    |                     |
|  |                       |           |         |              |          |           | 0 - 1.0               | No recovery               |                          |                      |            |                     |
| 1  | NOI 1.0 - 1.2 Asphalt |           |         |              |          |           |                       |                           |                          |                      |            |                     |
| 2 1 4.0/2.3 1.2 - 3.0 Dark brown, fine sands, few gravel, poorly graded, dry/moist |                       |           |         |              |          |           |                       |                           | orly graded,             | SP                   |            |                     |
| 2  | 3 1 4.0/2.3           |           |         |              |          |           |                       |                           |                          |                      |            |                     |
|  |                       |           |         |              |          |           |                       |                           |                          |                      |            |                     |
| 4  |                       |           |         |              |          |           | 3.0 - 4.0             | Light brown, fi<br>graded | SP                       |                      |            |                     |
| П  |                       |           |         | lt           |          |           | 4.0 - 4.3 No recovery |                           |                          |                      |            |                     |
| 5  |                       |           |         |              |          | NOI       | 4.3 - 5.8             | Same as 3.0 - 4           | .0                       |                      | SP         |                     |
| -  |                       |           |         |              | 0.0      | 1101      |                       |                           |                          |                      | 51         |                     |
| 6  |                       |           |         |              | 0.0      |           | 5.8                   | Sama as abova             | encounter water          |                      |            |                     |
| Ш  | 2                     | 4.0/2.4   |         |              |          |           |                       |                           |                          |                      |            | $\nabla$ 5.8 ft bgs |
| 7  |                       |           |         |              |          |           | 5.8 - 7.5             | poorly graded             | n, medium sands with     | race siits, wet,     | SP         |                     |
| 8  |                       |           |         |              | 0.0      |           | 7.5 - 8.0             | Same as above,            | with small wood fragm    | ents                 | SP         |                     |
| Н  |                       |           |         | <del> </del> | 0.0      | ·         | 8.0 - 11.0            | Dark brown m              | edium sand with trace s  | ilt, poorly graded   | SP         |                     |
| 9  |                       |           |         |              | 0.0      | WOX       |                       | , 111                     |                          | , <sub>1</sub>       | Sr         |                     |
| Ш  |                       |           |         |              |          | NOI       |                       |                           |                          |                      |            |                     |
| 10   |                       |           |         |              |          |           |                       | (Loose soils fro          | m 8.0 - 10.2)            |                      |            |                     |
|  | 3                     | 4.0/4.0   |         |              |          |           |                       |                           |                          |                      |            |                     |
| 11   | 5                     | 110/ 110  |         |              | 0.0      |           | 11.0 - 12.0           | Light brown, m            | edium sands, poorly gra  | aded, wet            | SP         |                     |
| $\vdash$   |                       |           |         |              |          |           |                       |                           |                          |                      |            |                     |
|  |                       |           |         |              |          |           |                       |                           |                          |                      |            |                     |
| $\vdash$   |                       |           |         | <del> </del> |          |           | 12.0 - 13.4           | Loose fine con            | d, poorly graded         |                      | SP         |                     |
| 13   |                       |           |         |              |          | NO        | 12.0 - 13.4           | Loose, tille san          | a, poorty graded         |                      | or         |                     |
| Ш  |                       |           |         |              |          | NOI       |                       |                           |                          |                      |            |                     |
| 14   |                       |           |         |              |          |           | 13.4 - 14.9           | Medium sand,              | some gravel, poorly grad | ded                  | SP         |                     |
|  | 4                     | 4.0/4.0   |         |              |          |           |                       |                           |                          |                      |            |                     |
| 15   |                       |           |         |              |          |           |                       |                           |                          |                      |            |                     |
| 13   |                       |           |         |              |          |           | 14.9 - 16.0           | Fine sand, trace          | e silts, poorly graded   |                      | SP         |                     |
|  |                       |           |         |              |          |           |                       |                           |                          |                      |            |                     |
| 16   |                       |           |         |              |          | <b> </b>  |                       | Bottom of                 | Boring - 16" bgs         |                      |            |                     |
| NOT  | ES:                   | No obser  | vable i | impact       | s        | i .       |                       |                           |                          |                      | 1          |                     |

**NOTES:** No observable impacts

|   | SOIL BORING LOG  Project Name:  Proj |  |            |              |          |                   |                           |                                      |                                       |                       |                      |                     |
|---|--|--|------------|--------------|----------|-------------------|---------------------------|--------------------------------------|---------------------------------------|-----------------------|----------------------|---------------------|
| 2   | 100  | N A  | Λ          | 1            | 77       | EC                | Project Name:             | Saranac Lake                         | e Gas Company                         |                       | Boring ID            | : SB-326            |
|   | 4  | IVI  | F          | 16           | L        | EC                | Project Location:         | Saranac Lake,                        |                                       |                       | Page No.             | 1                   |
|   |  |  |            |              | nd Maine |                   | Project No.: 3611         |                                      | Client: NYSDI                         | EC                    | of:                  | 1                   |
| Bori  | ng Lo  | cation:  | In m       | nedian       | of Lake  | Flower Rd         | Refusal Depth:            | NA                                   | Total Depth:                          | 16' bgs               | Bore Hole            | ID/OD: 2.25"        |
| Wea   | her:   | Overcas  | st (40     | °F)          |          |                   | Soil Drilled:             | d: 16' Method: Direct Push C         |                                       |                       | Casing Siz           | ze: 2.25"           |
| Subc  | ontra  | ctor:  | Prec       | ision l      | Environn | nental            |                           | Protection Level: D                  |                                       |                       | Sampler:             | Macrocore           |
| Drill   | er:  | Mike D   | udley      | 7            |          |                   | Date Started:             | 11/11/2016                           | Date Completed:                       | 11/11/2016            | Sampler II           | D/OD: 2.0"          |
| Rig 7   | Гуре/  | Model:   | Geo        | probe        | e/Bobcat |                   | Logged By:                | D. Farrell                           | Checked By:                           | B. Havens             |                      |                     |
| Refe  | rence  | Elevation  | n:         |              |          |                   | Water Level:              | ~ 5.9 ft bgs                         | Time: 745                             |                       |                      |                     |
|   | Samp   | le Inforr  | natio      | n            | Mo       | onitoring         |                           |                                      |                                       |                       |                      |                     |
| O Depth (feet bgs)  | Sample Number  | Penetration/<br>Recovery (feet)                                    |            |              | PID      | Waste Encountered | S                         | ample Description                    | on and Classification                 | 1                     | USCS Group<br>Symbol | Remarks             |
| ,   |  |  |            |              |          |                   | 0 - 0.8                   | No recovery                          |                                       |                       |                      |                     |
| 1   |  |  |            |              |          | NOI               | 0.8 - 0.9                 | Organic, fine sar                    | nd trace silts                        |                       |                      |                     |
| 2   |  | 0.0 0.9 - 2.7 Light brown, fine to medium sand, dry, poorly graded |            |              |          |                   |                           |                                      |                                       | poorly graded         | SP                   |                     |
| 3   | 1  | 4.0/3.2  |            |              | 0.0      |                   | 2.7 - 3.1                 |                                      |                                       |                       |                      |                     |
| 4   |  |  |            |              |          |                   | 21.40                     | response howeve                      | SP                                    |                       |                      |                     |
|   |  |  | ļ          | ļ            | 37.8     | Odor from fill    | 3.1 - 4.0                 |                                      | fine to medium sand w                 |                       | e)                   |                     |
| 5   |  |  |            |              | 50.7     | materials         | 4.0 - 5.9                 | Same as above                        |                                       |                       |                      |                     |
| ,   |  |  |            |              | 2.1      | NOI               |                           |                                      |                                       |                       |                      |                     |
| 6<br>7  | 2  | 4.0/4.0  |            |              | 0.0      |                   | 5.9 - 7.0                 | Dark brown, fin<br>plastic, wet, poo | e to medium sand, trace<br>rly graded | e silts, fragments of |                      | $\sqrt{5.9}$ ft bgs |
| 8   |  |  |            |              | 0.0      |                   | 7.0 - 8.0                 | Dark brown, dar                      | rk red, fine sand, trace s            | silt, wood fragments  |                      |                     |
|   |  | <b></b>  | <b> </b> - | <del> </del> | 0.0      |                   | 8.0 - 8.4                 | Dark gray, medi                      | um sand, poorly graded                | d, wet                | SP                   |                     |
| 9   |  |  |            |              | 0.0      | NOI               | 8.4 - 9.5                 |                                      | ry loose organic, fine sa             |                       | SP                   |                     |
| 10  | 3  | 4.0/4.0  |            |              | 0.0      |                   | 9.5 - 10.3<br>10.3 - 12.0 |                                      | e sand, trace silts                   | d                     | SP                   |                     |
| 11  |  |  |            |              | 0.0      |                   | 10.3 - 12.U               |                                      |                                       |                       |                      |                     |
| 12  |  |  |            | ļ            |          | <u> </u>          |                           |                                      |                                       |                       |                      |                     |
| 13  |  |  |            |              |          | NOI               | 12.0 - 14.4               | Brown, medium                        | sand, trace fines, poor               | ly graded, wet        | SP                   |                     |
| 14  | 4  | 4.0/4.0  |            |              |          |                   | 14.4 - 16                 | Light brown, fin                     | e sand trace medium sa                | and, poorly graded    | SP                   |                     |
| Bottom of Boring - 16" bgs  NOTES: Odor observed from 2.7 - 4.0 was unrecognizable, and likely attributed to fill materials in area, beneath median in road |  |  |            |              |          |                   |                           |                                      |                                       |                       |                      |                     |

NOTES: Odor observed from 2.7 - 4.0 was unrecognizable, and likely attributed to fill materials in area, beneath median in road Was not MGP impacted soils

| SOIL BORING LOG  |       |           |          |        |            |   |   |  |  |                     |              |                |
|------------------|-------|-----------|----------|--------|------------|---|---|--|--|---------------------|--------------|----------------|
| 1                | 10    | M         | Δ        | (      | т          | EC  | Project Name:   | Saranac Lak  | e Gas Company                                      |                     | Boring II    | D: SB-329      |
| 1                |       | TAT       | 1        | 1      | J.L.       |   | Project Location:   | Saranac Lake   | , NY   |                     | Page No.     | 1              |
| _                |       |           |          |        | nd Maine ( |   | Project No.: 361  | 1161193  | Client: NYSD                                       | EC                  | of           | ž: 2           |
|                  | _     |           |          |        | er Inn pro | operty  | Refusal Depth:  | 17' bgs  | Total Depth:                                       | 17' bgs             | Bore Hol     | e ID/OD: 2.25" |
| Weat             | her:  | Overcas   |          |        |            |   | Soil Drilled:   | 17'  | Method: Direct                                     | Push                | Casing S     |                |
| _                | ontra |           |          | sion I | Environm   | nental  |   |  | Protection Level:                                  | D                   | Sampler:     |                |
| Drill            |       | Mike D    |          |        |            |   | Date Started:   | 11/11/2016   | Date Completed:                                    | 11/11/2016          | Sampler      | ID/OD: 2.0"    |
|                  |       | Model:    |          | probe  | /Bobcat    |   | Logged By:  | D. Farrell   | Checked By:  | B. Havens           |              |                |
|                  |       | Elevatio  |          |        |            |   | Water Level:  | ~ 3.0 ft bgs   | Time: 1150   |                     |              |                |
| -                | Samp  | le Inforn | nation   | 1      | Mo         | onitoring   |   |  |  |                     |              |                |
| Depth (feet bgs) |       |           |          |        |            |   |   | n  | USCS Group<br>Symbol                               | Remarks             |              |                |
| 1                |       |           |          |        |            |   | 0 - 1.9   | No recovery  |  |                     |              |                |
| 0.0 NOI          |       |           |          |        |            |   |   |  |  |                     |              |                |
| 2                |       |           |          |        |            |   |   |  | ee silts, dry to moist,                            | SP                  |              |                |
| 3                | 1     | 4.0/2.1   |          |        | 0.0        |   | 2.6 - 4.0   | Brown, fine sar<br>poorly graded   | e gravel, moist,                                   | SP                  | ∇ 2.0 ft bas |                |
| 4                |       |           |          |        |            | $\downarrow$  |   |  |  | $\sqrt{3.0}$ ft bgs |              |                |
| 5                |       |           |          |        |            | Slight sheen  | Very poor recovery, strong odor and sheen (petroleum) on rods removed from borehole |  |  |                     |              |                |
| 6                |       |           |          |        |            | and strong<br>petroleum (fuel<br>like) odor             |   |  |  |                     |              |                |
| 7                | 2     | 4.0/0.2   |          |        |            |   |   |  |  |                     |              |                |
| 8                |       |           |          |        | 6.1        |   |   | -  | from 0.1' of soil (fine t<br>moved from toe of mac |                     | SP           |                |
|                  |       |           |          |        |            | $\vee$  |   |  |  |                     | ]            |                |
| 9                |       |           |          |        |            | Slight sheen and strong                                 |   | <ul> <li>Very poor recorded rods removed from the control of t</li></ul> | very, strong odor and sh<br>com borehole           | neen (petroleum) on |              |                |
| 10               |       |           |          |        |            | petroleum (fuel-<br>like) odor                          |   |  |  |                     |              |                |
| 11               | 3     | 4.0/0     |          |        | NA         |   |   |  |  |                     |              |                |
| 12               |       |           |          |        |            |   |   |  |  |                     |              |                |
|                  |       |           |          |        |            | $\forall$   |   |  |  |                     | .            |                |
| 13               |       |           |          |        | 15.1       | Staining, odor<br>(MGP/Naphtha                          | 12.0 - 12.9<br>12.9 - 15.5  | •  | ned medium sands few                               | gravel, strong      | SP           |                |
| 14               |       |           |          |        | 5.9        | lene)   | naphthalene odor, poorly graded, wet  |  |  |                     |              |                |
| 15               | 4     | 4.0/3.1   |          |        | 20.8       |   |   |  |  |                     |              |                |
| 16               |       |           |          |        | 21.0       | Light house and Green and with the self-the models have |   |  |  |                     |              |                |
| NOT              | T C   | Two die   | $\vdash$ |        |            |   |   |  | and nonhtholono (MCP)                              |                     | 12 ' bas     |                |

NOTES: - Two distinct odors observed; petroleum odors observed beginning at 4.0 (water table), and naphthalene (MGP) odors beginning at 12 'bgs

|   | SOIL BORIN                              | NG LOG   |                      |                 |
|---|---|--|----------------------|-----------------|
|   |   | ake Gas Company                                      | Boring ID            | ): SB-329       |
| MACTEC  | Project Location: Saranac La            |  | Page No.             | 2               |
|   | Project No.: 3611161193                 | Client: NYSDEC                                       | of:                  |                 |
| Boring Location: Lake Flower Inn property             | Refusal Depth: 17' bgs                  | Total Depth: 17' bgs                                 | Bore Hole            |                 |
| Weather: Overcast (40° F)                             | Soil Drilled: 17'                       | Method: Direct Push                                  | Casing Si            |                 |
| Subcontractor: Precision Environmental                |   | Protection Level: D                                  | Sampler:             | Macrocore       |
| Driller: Mike Dudley                                  | Date Started: 11/11/2016                | •  | Sampler I            | D/OD: 2.0"      |
| Rig Type/Model: Geoprobe/Bobcat                       | Logged By: D. Farrell                   | Checked By: B. Havens                                |                      |                 |
| Reference Elevation:                                  | Water Level: ~ 3.0 ft bgs               | Time: 1150   | 1                    |                 |
| Sample Information Monitoring                         | 4                                       |  |                      |                 |
| Sample Number  Penetration/ Recovery (feet)  PID  PID | Sample Descri                           | ption and Classification                             | USCS Group<br>Symbol | Remarks         |
| 17 5 1.0/1.0 11.6 Odor and sheen                      | 16.0 - 17.0 Light brown,<br>sheen and M | fine to medium sands with trace gravel, wet, GP-odor | SP                   |                 |
|   | Bottom                                  | of Boring - 17" bgs                                  |                      |                 |
|   |   |  |                      |                 |
| NOTES: See notes on page 1                            |   |  |                      | SOIL BORING LOC |

|                  | SOIL BORING LOG  Project Name: Saranac Lake Gas Company Project Location: Saranac Lake, NY Project Location: Saranac Lake, NY Project Location: Saranac Lake, NY Page No. 1 |  |               |               |                                       |   |                                       |  |                       |          |   |  |
|------------------|---|--|---------------|---------------|---------------------------------------|---|---------------------------------------|--|-----------------------|----------|---|--|
| 1                | 101   | NA   | Λ             | CT            | TEC                                   | Project Name:   | Saranac Lak                           | e Gas Company                              |                       | Boring I | D: SB-330                               |  |
|                  | 4   | IVI  | $\mathcal{L}$ |               | EC                                    | Project Location:   | Saranac Lake,                         |  |                       | Page No  | . 1                                     |  |
|                  | 511 C   | Congress S   | Street, I     | Portland Main | e 04101                               | Project No.: 3611   |                                       | Client: NYSD                               | EC                    |          | f: 1                                    |  |
| Borin            | ng Lo   | cation:  | Lake          | Flower Inn    | property                              | Refusal Depth:  | 15.9' bgs                             | Total Depth:                               | 15.9' bgs             | Bore Ho  | ole ID/OD: 2.25"                        |  |
| Weat             | her:  | Overcas  | t (40°        | F)            |                                       | Soil Drilled:   | 15.9                                  | Method: Direct                             | Push                  | Casing S | Size: 2.25"                             |  |
| Subco            | ontra   | ctor:  | Precis        | sion Enviro   | mental                                |   |                                       | Protection Level:                          | D                     | Sampler  |   |  |
| Drille           |   | Mike D   |               |               |                                       | Date Started:   | 11/10/2016                            | Date Completed:                            | 11/10/2016            | Sampler  | ID/OD: 2.0"                             |  |
|                  |   | Model:   |               | probe/Bobca   | t                                     | Logged By:  | D. Farrell                            | Checked By:                                | B. Havens             |          |   |  |
| -                |   | Elevation  |               |               | Aonitonino.                           | Water Level:  | ~ 4.0 ft bgs                          | Time: 1435                                 |                       |          |   |  |
| _                | samp  | le Inforn  | nation        | Г             | Monitoring                            | -   |                                       |  |                       |          |   |  |
| Oppth (feet bgs) |   |  |               |               |                                       |   |                                       |  | USCS Group<br>Symbol  | Remarks  |   |  |
|                  |   |  |               |               |                                       | 0.0 - 0.4   | Dark black, fine                      | e sand with trace silts, or                | rganics, moist        | SP       |   |  |
| 1                |   |  |               | 0.0           | NOI                                   | 0.4 - 3.0   | Light brown/bro                       | own fine sands with trac                   | ce silts, moist       |          |   |  |
| 2                | ,   | 4.0/2.1  |               |               |                                       |   |                                       |  |                       |          |   |  |
| 3                | 1   | 4.0/3.1  |               |               |                                       |   |                                       |  |                       |          |   |  |
| 4                |   |  |               | 0.0           |                                       | 3.0 - 4.0 Dark gray/brown, fine sands with trace silts, few gravel, wet, poorly graded                          |                                       |  |                       |          | $\sqrt{4.0}$ ft bgs                     |  |
| 5                |   |  |               | 0.0           | NOI                                   | _ Little recovery, top 0.3 of 0.8 appears to be cave-in from above  |                                       |  |                       |          |   |  |
| 6                | 2   | 4.0/0.8  |               |               |                                       | 0.3 - 0.8   | Loose, dark gray<br>graded, wet, slig | y/brown, fine sands with<br>ght odor       | h trace silts, poorly | SP       |   |  |
| 8                |   |  |               |               | Slight Odor<br>(Petroleum)            |   |                                       |  |                       |          |   |  |
| 9                |   |  |               | 0.0           | Stained, strong<br>sheen, and<br>odor | 8.0 - 9.4   |                                       | ed, medium sands, poor                     |                       | SP       |   |  |
| 10               | 2   | 4.0/4.0  |               | 4.9           |                                       | 9.4 - 11.0  | -                                     | to medium sand, trace sheen, stained soils | silts, petroleum      | SP       |   |  |
| 11               | 3   | 4.0/4.0  |               | 3.0           |                                       |   |                                       |  |                       |          |   |  |
| 12               |   |  |               | 0.0           | NOI                                   | 11.0 - 12.0 Changed from stained soils to NOI, (orange/light brown, fine sands with trace silts), poorly graded |                                       |  |                       |          | Collect Sample (11-12')                 |  |
| 13               |   |  |               | 9.6<br>29.0   | Strong<br>staining, odor              | 12 - 13.5 Medium sands, strong staining and strong MGP  |                                       |  |                       | SP       | 516008SB33012<br>For t(34) PAH analysis |  |
| 14               |   |  |               | 32.6          | (MGP)                                 | (naphthalene) odor  13.5 - 14.0  Loose medium sand, strong odor/staining  |                                       |  |                       | SP       | 15:00                                   |  |
| 15               | 4   | 4.0/1.8  |               | 0.0           | NOI                                   | 14.0 - 15.9 Change to NOI, orange/light brown, medium sand, poorly graded, wet                                  |                                       |  |                       |          |   |  |
| 16<br>NOT        |   | Bottom of Boring - Refusal - 15.9' bgs  Two distinct odors observed patrology observed beginning at 12' base and probable large (MGP) odors beginning at 12' base. |               |               |                                       |   |                                       |  |                       |          |   |  |

NOTES: - Two distinct odors oberved; petroleum odors observed beginning at ~7' bgs, and naphthalene (MGP) odors beginning at 12 'bgs

<sup>-</sup> Refusal at 15.9

| SOIL BORING LOG  |  |                     |                      |                     |  |  |  |  |  |  |
|--|--|---------------------|----------------------|---------------------|--|--|--|--|--|--|
| Project Name:  Saranac Lake Gas Company  Project Location: Saranac Lake, NY  Page No. 1  |  |                     |                      |                     |  |  |  |  |  |  |
| MINCIE   | Project Location: Saranac Lake, NY                           |                     | Page No.             | 1                   |  |  |  |  |  |  |
| 511 Congress Street, Portland Maine 04101  | Project No.: 3611161193 Client: NYSDE                        | С                   | of                   | : 1                 |  |  |  |  |  |  |
| Boring Location: Yard of Adrirondack Inn   | Refusal Depth: 9.0' bgs Total Depth:                         | 9.0' bgs            | Bore Hol             | e ID/OD: 2.25"      |  |  |  |  |  |  |
| Weather: Overcast (40° F)  | Soil Drilled: 9.0' Method: Direct Pt                         | ush                 | Casing S             | ize: 2.25"          |  |  |  |  |  |  |
| Subcontractor: Precision Environmental   | Protection Level:  | D                   | Sampler:             | Macrocore           |  |  |  |  |  |  |
| Driller: Mike Dudley   | Date Started: 11/10/2016 Date Completed:                     | 11/10/2016          | Sampler              | ID/OD: 2.0"         |  |  |  |  |  |  |
| Rig Type/Model: Geoprobe/Bobcat  | Logged By: D. Farrell Checked By:                            | B. Havens           |                      |                     |  |  |  |  |  |  |
| Reference Elevation:   | Water Level: ~ 1.1 ft bgs Time: 715                          |                     |                      |                     |  |  |  |  |  |  |
| Sample Information Monitoring  |  |                     |                      |                     |  |  |  |  |  |  |
| OD Depth (feet bgs) Sample Number Penetration/ Recovery (feet) PID PID Waste Encountered | Sample Description and Classification                        |                     | USCS Group<br>Symbol | Remarks             |  |  |  |  |  |  |
| 1 0.0 NOI  | 0 - 1.7 No recovery  |                     |                      | $\nabla$ 1.1 ft bgs |  |  |  |  |  |  |
| —         NOI  | 1.7 - 2.0 Organics, brown fine sand, grass                   |                     |                      |                     |  |  |  |  |  |  |
| 2  |  |                     | CD.                  |                     |  |  |  |  |  |  |
| 3 1 4.0/2.3  | 2.0 - 4.0 Brown, fine sand with trace silts, moist to graded | o wet, poorly       | SP                   |                     |  |  |  |  |  |  |
|  |  |                     |                      |                     |  |  |  |  |  |  |
| 5  | 4.0 - 4.2 No recovery  |                     |                      |                     |  |  |  |  |  |  |
| 0.0 NOI  | 4.2 - 6.2 Gray, medium sands with trace gravel, w            | et, poorly graded   |                      |                     |  |  |  |  |  |  |
| 7 2 4.0/3.8  | 6.2 - 8.0 Light brown/gray, fine sand with trace sil wet     | lts, poorly graded, |                      |                     |  |  |  |  |  |  |
| 8  |  |                     |                      |                     |  |  |  |  |  |  |
| 9 3 1.0/1.0 0.0 NOI  | 8.0 - 9.0 Dark gray, medium sands, some gravel, p            | poorly graded, wet  |                      |                     |  |  |  |  |  |  |
| 0.0  | Bottom of Boring - Refusal - 9.0' bgs                        |                     |                      |                     |  |  |  |  |  |  |
|  |  |                     |                      |                     |  |  |  |  |  |  |
| NOTES: No observable impacts   |  |                     |                      | SOIL BORING LOG     |  |  |  |  |  |  |

|  | SOIL BORING LOG  |                                 |        |         |            |                   |                   |  |                           |                       |                      |                      |  |
|--|--|---------------------------------|--------|---------|------------|-------------------|-------------------|--|---------------------------|-----------------------|----------------------|----------------------|--|
| 1  |  | M                               | Δ      | (       | т          | EC                | Project Name:     | Saranac Lake   | Gas Company               |                       | Boring II            | D: SB-333            |  |
|  |  | TAT                             | 1      | 1       | 11         |                   | Project Location: | Saranac Lake,  | NY                        |                       | Page No.             | . 1                  |  |
|  |  | _                               |        |         | nd Maine ( |                   | Project No.: 3611 |  | Client: NYSD              | EC                    | of                   |                      |  |
| Bori   | ng Lo  | cation:                         | Adja   | cent t  | o BB cul   | vert              | Refusal Depth:    | Depth: 15' bgs Total Depth: 15' bgs Bore Hole ID/OD: 2 |                           |                       |                      | le ID/OD: 2.25"      |  |
| Wea  | ther:  | Overcas                         | t (35° | ° F)    |            |                   | Soil Drilled:     | 15'  | Method: Direct            | Push                  | Casing Size: 2.25"   |                      |  |
| Subo   | contra   | ctor:                           | Preci  | ision l | Environm   | nental            |                   |  | Protection Level:         | D                     | Sampler: Macrocore   |                      |  |
| Drill  | er:  | Mike D                          | udley  |         |            |                   | Date Started:     | 11/10/2016   | Date Completed:           | 11/10/2016            | Sampler              | ID/OD: 2.0"          |  |
| Rig '  | Гуре/  | Model:                          | Geo    | probe   | /Bobcat    |                   | Logged By:        | D. Farrell   | Checked By:               | B. Havens             |                      |                      |  |
| Refe   | rence  | Elevation                       | n:     |         |            |                   | Water Level:      | ~ 4.35 ft bgs  | Time: 1045                |                       |                      |                      |  |
|  | Samp   | le Inforn                       | natior | n       | Mo         | onitoring         |                   |  |                           |                       |                      |                      |  |
| O Depth (feet bgs)   | Sample Number  | Penetration/<br>Recovery (feet) |        |         | PID        | Waste Encountered | s                 | ample Descriptio                                       | on and Classification     | 1                     | USCS Group<br>Symbol | Remarks              |  |
| 1  |  |                                 |        |         |            |                   | 0 - 0.7           | No recovery  |                           |                       |                      |                      |  |
| 1  |  |                                 |        |         |            | NOI               | 0.7 - 1.0         | Organics, brown  | fine sand with trace gr   | avel, dry, poorly gra | ded                  |                      |  |
| 2  |  |                                 |        |         | 0.0        |                   | 1.0 - 1.7         | Change to light b                                      | prown fine to medium      | sand, poorly graded,  | Fill/SP              |                      |  |
| 1 4.0/3.2 1.7 - 2.6 Lens of brick-colored gravel (1.7), then dark brown, very fine sand, trace silt, poorly graded |  |                                 |        |         |            |                   |                   |  |                           | Fill/SP               |                      |                      |  |
|  | 1  |                                 |        |         |            | $\downarrow$      |                   | SP   |                           |                       |                      |                      |  |
| 4  |  |                                 |        |         | 37.8       | Slight Odor       | 3.4 - 4.0         | Dark brown/blac  | ce silt, odor             | SP                    |                      |                      |  |
|  | ļ  |                                 |        |         |            | Siight Odol       | 4.0 - 4.8         |  | n fine to medium sand     |                       | 1 1                  |                      |  |
| 5  |  |                                 |        |         | 50.7       |                   | 1.0 1.0           | poorly graded  | in thic to incurum sund   | trace sin, wet        | SP                   | $\sqrt{4.35}$ ft bgs |  |
|  |  |                                 |        |         | 2.1        | NOI               |                   |  |                           |                       |                      |                      |  |
| 6  |  |                                 |        |         | 0.0        |                   | 4.8 - 5.5         | Same as above, l                                       | however loose soils       |                       |                      |                      |  |
| 0  | _  | 4.0/4.0                         |        |         |            |                   | 5.5 - 7.3         | Dark gray, fine s                                      | ands, trace gravel, fabr  | ic fragements         | SP                   |                      |  |
| 7  | 2  | 4.0/4.0                         |        |         |            |                   |                   |  |                           |                       |                      |                      |  |
| 8  |  |                                 |        |         | 0.0        |                   | 7.3 - 8.0         | Light brown, me wet, moderately                        | dium to coarse sands v    | vith trace gravel,    | SP                   |                      |  |
| 9  |  |                                 |        |         | 0.0        | NOI               | 8.0 - 9.5         | Light brown and poorly sorted                          | gray, fine sand, with the | race gravel, wet      | SP                   |                      |  |
| 10   |  | 4.0/2.0                         |        |         |            |                   | 9.5 - 11.6        | Light brown, fine                                      | e to medium sand with     | trace gravel, poorly  | SP                   |                      |  |
| 11 3 4.0/3.9 0.0   |  |                                 |        |         |            |                   |                   |  |                           |                       |                      |                      |  |
| 11.6 - 12.0 Light brown, coarse to medium sand with gravel, wet poorly graded                                      |  |                                 |        |         |            |                   |                   | ith gravel, wet  | SP                        |                       |                      |                      |  |
| 13   | NOI 12.0 - 13.6 Loose, light gray/brown, fine sands, wet |                                 |        |         |            |                   |                   | t  | SP                        |                       |                      |                      |  |
| 14   | 4  | 3.0/2.9                         |        |         |            |                   | 13.6 - 15         | Tighter, fine to n                                     | nedium sand, light broved | wn, trace gravel,     | SP                   |                      |  |
| 15   |  |                                 |        |         |            |                   |                   | (D : D :   | 1.1611                    |                       |                      |                      |  |
|  |  |                                 |        |         |            |                   | Botton            | n of Boring - Refus                                    | ai - 15' bgs              |                       |                      |                      |  |

NOTES: - Refusal at 15' bgs

<sup>-</sup> slight petroleum odor (no PID response) observed at 3.4 - 4.0 bgs

|                    | SOIL BORING LOG |                                 |           |             |                   |                        |   |                          |                       |                      |                |  |
|--------------------|-----------------|---------------------------------|-----------|-------------|-------------------|------------------------|---|--------------------------|-----------------------|----------------------|----------------|--|
| 1                  | 110             | NA                              | Λ         |             | TEC               | Project Name:          | Saranac Lak                                   | e Gas Company            |                       | Boring II            | ): SB-334      |  |
|                    | 4               | IVI                             | A         |             | <b>TEC</b>        | Project Location:      | Saranac Lake                                  |                          |                       | Page No.             | 1              |  |
|                    |                 |                                 |           | ortland Mai |                   | Project No.: 3611      |   | Client: NYSI             | DEC                   | of:                  | 1              |  |
| Bori               | ng Lo           | cation:                         | North s   | shore of L  | ake Flower        | Refusal Depth:         | 12' bgs                                       | Total Depth:             | 12' bgs               | Bore Hole            | e ID/OD: 2.25" |  |
| Wea                | ther:           | Overcas                         | st (40° F | F)          |                   | Soil Drilled:          | 12 '  | Method: Direc            | Push                  | Casing Si            | ze: 2.25"      |  |
| Subc               | ontra           | ctor:                           | Precisi   | on Enviro   | nmental           |                        |   | Protection Level:        | D                     | Sampler:             | Macrocore      |  |
| Drill              | er:             | Mike D                          | udley     |             |                   | Date Started:          | 11/10/2016                                    | Date Completed:          | 11/10/2016            | Sampler I            | D/OD: 2.0"     |  |
|                    |                 |                                 |           | obe/Bobc    | at                | Logged By:             | D. Farrell                                    | Checked By:              | B. Havens             |                      |                |  |
|                    |                 | Elevation                       |           |             |                   | Water Level:           | ~ 3.0 ft bgs                                  | Time: 1015               |                       | <u> </u>             |                |  |
| -                  | Samp            | ole Inform                      | nation    |             | Monitoring        | _                      |   |                          |                       |                      |                |  |
| O Depth (feet bgs) | Sample Number   | Penetration/<br>Recovery (feet) |           | PID         | Waste Encountered | s                      | ample Descript                                | ion and Classification   | on                    | USCS Group<br>Symbol | Remarks        |  |
| 1                  |                 |                                 |           | 0.0         | NOI               | 0 - 1.0<br>1.0 - 2.0   | No recovery Organic mix with moist, poorly gr | ith brown fine to medi   | um sand, trace silts, | SP                   |                |  |
| 2                  | 1 4.0/3.0       |                                 |           |             |                   | 2.0 - 2.2<br>2.2 - 4.0 | Gray/dark brow                                | nedium sand, few grav    | d, trace silts, moist | SP                   |                |  |
| 4                  | $\blacksquare$  |                                 |           |             | <b>\</b>          |                        | poorly graded,                                | slight odor (petroleum   | пиет-пке)             |                      | <u> </u>       |  |
|                    | ļ               |                                 | ļ         | 0.7         | Slight odor       | 4.0 - 6.8              | Grav/brown fit                                | ne to medium sand, po    | orly graded wet       | SP                   |                |  |
| 5                  |                 |                                 |           | 0.0         | NOI               |                        | Gray, ero wa, ra                              | o to medium suite, po    | ony graded, wet       |                      |                |  |
| 6                  | 2               | 4.0/4.0                         |           |             |                   | 6.8 - 7.0              | Gray/dark brow                                | n, fine sands with silt, | poorly graded wet     | SP                   |                |  |
| 8                  |                 |                                 |           |             |                   | 7.0 - 8.0              |   | ay, fine sands, poorly § |                       | SP                   |                |  |
| 9                  |                 |                                 |           | 0.5<br>0.0  |                   | 8.0 - 8.4              |   | with trace gravel, moi   |                       |                      |                |  |
| 10                 | 10 3 4.0/4.0    |                                 |           |             |                   | 8.4 - 12.0             | Gray, fine sand                               | s, moist, poorly graded  | l                     | SP                   |                |  |
| 3 4.0/4.0          |                 |                                 |           |             |                   |                        |   |                          |                       |                      |                |  |
| 12                 |                 |                                 |           |             |                   |                        |   |                          |                       |                      |                |  |
|                    |                 |                                 |           |             |                   | В                      | ottom of Boring -                             | 12' bgs                  |                       |                      |                |  |

**NOTES:** - slight petroleum odor (0.7 ppm) observed 2.2 - 2.9' bgs

<sup>-</sup> slight petroleum odor (0.5 ppm) observed 8.0 -  $8.4\,$ 

|                    |  |                                 |          |         |          |                                       | SC               | OIL BORING              | G LOG                      |                  |                        |             |  |
|--------------------|--|---------------------------------|----------|---------|----------|---------------------------------------|------------------|-------------------------|----------------------------|------------------|------------------------|-------------|--|
| 2                  | 10   | NΛ                              | Δ        | (       | т        | EC                                    | Project Name:    |                         | te Gas Company             |                  | Boring ID              | ): SB-329   |  |
|                    |  | IAT                             | $\Gamma$ | 1       | L        | LC                                    | Project Location | : Saranac Lake          | , NY                       |                  | Page No.               | 1           |  |
| 5                  | 511 C  | Congress S                      | Street,  | Portla  | nd Maine | 04101                                 | Project No.: 36  | 11161193                | Client: NYSD               | EC               | of: 2                  |             |  |
| Boring             | g Lo   | cation:                         | 50' V    | V of S  | B/PZ-31  | 1                                     | Refusal Depth:   | NA Total Depth: 20' bgs |                            |                  | Bore Hole ID/OD: 2.25" |             |  |
| Weath              | ner:   | Overcas                         | ,        |         |          |                                       | Soil Drilled:    | 20'                     | Method: Direct             | Push             | Casing Si              | ze: 2.25"   |  |
| Subco              | ntra   | ctor:                           | Preci    | ision I | Environn | nental                                |                  |                         | Protection Level:          | D                | Sampler:               | Macrocore   |  |
| Drille             | Driller: Mike Dudley Date Started: 11/17/2016 Date Completed: 11/17/20 |                                 |          |         |          |                                       |                  |                         | 11/17/2016                 | Sampler I        | D/OD: 2.0"             |             |  |
| Rig T              | ype/l  | Model:                          | Geo      | probe   | /Bobcat  |                                       | Logged By:       | D. Farrell              | Checked By:                | B. Havens        |                        |             |  |
| Refere             | ence   | Elevatio                        | n:       |         |          |                                       | Water Level:     | ~ 11 ft bgs             | Time: 940                  |                  |                        |             |  |
| S                  | amp  | le Inforn                       | natior   | ı       | Mo       | onitoring                             |                  |                         |                            |                  |                        |             |  |
| O Depth (feet bgs) | Sample Number  | Penetration/<br>Recovery (feet) |          |         | PID      | Waste Encountered                     |                  | Sample Descript         | ion and Classification     | n                | USCS Group<br>Symbol   | Remarks     |  |
|                    |  |                                 |          |         |          |                                       | 0 - 2.0          | No recovery             |                            |                  |                        |             |  |
| 1                  |  |                                 |          | 0       |          | NOI                                   | 2.0 - 2.2        | Organics, leave         | es, roots                  |                  | Topsoil                |             |  |
| 2                  | 1  | 4.0/2.0                         |          |         |          |                                       | 2.2 - 4.0        | Light brown             | nedium sand, poorly grav   | dad dwy          |                        |             |  |
| 3                  |  |                                 |          | 0       |          |                                       | 2.2 - 4.0        | Light brown, in         | iedium sand, poorty grad   | ued, dry         | SP                     |             |  |
| 4                  |  |                                 |          |         |          | <b>\</b>                              |                  |                         |                            |                  |                        |             |  |
| <u> </u>           |  |                                 | <b></b>  | 0       |          |                                       | 4.0 - 8.0        |                         | nedium sands, poorly gra   |                  | SP                     |             |  |
| 5                  |  |                                 |          | 0       |          | No.                                   |                  | Eight of own, in        | surus, poorty gro          | adou, ary        | SP                     |             |  |
| 6                  |  |                                 |          |         |          | NOI                                   |                  |                         |                            |                  |                        |             |  |
| Н                  | 2  | 4.0/4.0                         |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 7                  |  |                                 |          | 0       |          |                                       |                  |                         |                            |                  |                        |             |  |
|                    |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 8                  |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| $\vdash \vdash$    |  |                                 |          | 0       |          |                                       | 8.0 - 9.1        | Same as above           |                            |                  | .                      |             |  |
| 9                  |  |                                 |          | U       |          |                                       | 0.0 7.1          | barne as above          |                            |                  |                        |             |  |
| Ш                  |  |                                 |          |         |          | NOI                                   |                  |                         |                            |                  |                        |             |  |
| 10                 |  |                                 |          |         |          |                                       | 9.1 - 9.6        | •                       | ery fine sand, poorly grad |                  | SP                     |             |  |
| 10                 | 2  | 4.0/4.0                         |          |         |          |                                       | 9.6 - 12.0       | Light brown, m          | edium sand, some grave     | el, wet at 11'   |                        | ∇ 11 ft bgs |  |
|                    | 3  | 4.0/4.0                         |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 11                 |  |                                 |          | 0       |          |                                       |                  |                         |                            |                  |                        |             |  |
|                    |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 12                 |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| $\vdash$           | -  |                                 |          |         |          | · · · · · · · · · · · · · · · · · · · | 12.0 - 16.0      | Light brown             | edium sand, poorly grad    | ded              | GD.                    |             |  |
| 13                 |  |                                 |          | 0       |          |                                       | 12.0 10.0        | ,                       | 71 70                      |                  | SP                     |             |  |
| Ш                  |  |                                 |          |         |          | NOI                                   |                  | - One small lens        | at 14.5-15' bgs, with fin  | e to meatum sand |                        |             |  |
| 14                 |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
|                    | 4  | 4.0/4.0                         |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 1.                 | 4  | 4.0/4.0                         |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 15                 |  |                                 |          | 0       |          |                                       |                  |                         |                            |                  |                        |             |  |
| H                  |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| 16                 |  |                                 |          |         |          |                                       |                  |                         |                            |                  |                        |             |  |
| NOTI               | ES.  | NOI                             |          |         |          |                                       | <u> </u>         |                         |                            |                  |                        |             |  |

NOTES: NOI

|   |  | SO                | IL BORING         | GLOG                     |                |                      |                |
|---|--|-------------------|-------------------|--------------------------|----------------|----------------------|----------------|
| Allan   | per a proposition de la constant de | Project Name:     |                   | e Gas Company            |                | Boring ID:           | SB-329         |
| $M N / \Delta C$  | TEC  | Project Location: | Saranac Lake      |                          |                | Page No.             | 2              |
|   | ILC  | Project No.: 3611 |                   | Client: NYSD             | EC             | of:                  | 2              |
| Boring Location: 50' W of                                   | SB/PZ-311  | Refusal Depth:    | NA                | Total Depth:             | 20' bgs        | Bore Hole I          |                |
| Weather: Overcast (35° F)                                   | <del></del>  | Soil Drilled:     | 20'               | Method: Direct           |                | Casing Size          |                |
|   | n Environmental  |                   | -                 | Protection Level:        | D              | Sampler:             | Macrocore      |
| Oriller: Mike Dudley  |  | Date Started:     | 11/17/2016        | Date Completed:          | 11/17/2016     | Sampler ID           |                |
| •   | pe/Bobcat  | Logged By:        | D. Farrell        | Checked By:              | B. Havens      |                      |                |
| Reference Elevation:  |  | Water Level:      | ~ 11 ft bgs       | Time: 940                |                |                      |                |
| Sample Information  | Monitoring   |                   |                   |                          |                |                      |                |
| Oppth (feet bgs) Sample Number Penetration/ Recovery (feet) | PID Waste Encountered  | S                 | ample Descripti   | ion and Classification   | n              | USCS Group<br>Symbol | Remarks        |
|   |  | 16.0 - 18.0       | Medium to coar    | rse sand, poorly graded  |                | SP                   |                |
| 17  | 0.0 NOI  |                   |                   |                          |                |                      |                |
| $\dashv$ $\mid$ $\mid$ $\mid$                               | 0.0  | 18.0 - 20.0       | Same as abovo     | except larger percentage | e medium cand  | ar.                  |                |
| 18  |  | 10.0 - 20.0       | Same as above     | encept miger percentage  | c medium saliu | SP                   |                |
| 5 NR  |  |                   |                   |                          |                |                      |                |
|   | 0.0  |                   |                   |                          |                |                      |                |
| 19  |  |                   |                   |                          |                |                      |                |
| <del>-</del>  |  |                   |                   |                          |                |                      |                |
| 20  |  |                   |                   |                          |                |                      |                |
|   |  |                   | ottom of Boring - |                          |                |                      |                |
|   |  |                   |                   |                          |                |                      |                |
| NOTES: NOI  |  |                   |                   |                          |                |                      |                |
| NR=not recorded   |  |                   |                   |                          |                |                      | SOIL BODING LO |

|                    |   |                                 |        |        |          |                        | SO                                     | IL BORING                           | G LOG  |                     |                        |                     |  |
|--------------------|---|---------------------------------|--------|--------|----------|------------------------|--|-------------------------------------|--|---------------------|------------------------|---------------------|--|
| 2                  |   | M                               | Δ      | (      | Т        | EC                     | Project Name:                          | Saranac Lak                         | e Gas Company                                    |                     | Boring II              | D: SB-338           |  |
|                    |   | TAT                             | 7 3    | 1      | 11       | L                      | Project Location:                      | Saranac Lake,                       |  |                     | Page No.               |                     |  |
|                    |   | Congress S                      |        |        |          |                        | Project No.: 3611161193 Client: NYSDEC |                                     |  |                     | of: 1                  |                     |  |
| Bori               | ng Lo   | cation:                         | 23' fr | om S   | B-329 to | road                   | Refusal Depth:                         | 15' bgs Total Depth: 15' bgs        |  |                     | Bore Hole ID/OD: 2.25" |                     |  |
| Wea                | ther:   | Overcas                         |        |        |          |                        | Soil Drilled:                          | 15'                                 | Method: Direct                                   | Push                | Casing S               | ize: 2.25"          |  |
| Subc               | ontra   | ctor:                           | Preci  | sion I | Environn | nental                 |  |                                     | Protection Level:                                | D                   | Sampler:               | Macrocore           |  |
| Drill              | Driller: Mike Dudley Date Started: 11/10/2016 Date Completed: 11/10/201 |                                 |        |        |          |                        |  |                                     |  | 11/10/2016          | Sampler                | ID/OD: 2.0"         |  |
|                    | • •   | Model:                          | _      | probe/ | Bobcat   |                        | Logged By:                             | D. Farrell                          | Checked By:                                      | B. Havens           |                        |                     |  |
|                    |   | Elevation                       |        |        |          |                        | Water Level:                           | ~ 3.2 ft bgs                        | Time: 1245                                       |                     |                        |                     |  |
|                    | Samp  | le Inforn                       | nation |        | Mo       | onitoring              | ]                                      |                                     |  |                     |                        |                     |  |
| O Depth (feet bgs) | Sample Number   | Penetration/<br>Recovery (feet) |        |        | PID      | Waste Encountered      | s                                      | ample Descripti                     | on and Classificatio                             | n                   | USCS Group<br>Symbol   | Remarks             |  |
| ١.                 |   |                                 |        |        |          |                        | 0.0 - 1.0                              | No recovery                         |  |                     |                        |                     |  |
| 1                  |   |                                 |        |        | 0.0      | NOI                    | 1.0 - 2.4                              | Dark brown, fin<br>moist poorly gra | e to medium sand with                            | trace organics,     | Fill/SP                |                     |  |
| 2                  | 1   | 4.0/2.5                         |        |        |          |                        | 2.4 - 4.0                              | Dark/light brow<br>graded, become   | n medium to fine sand<br>s wet at 3.2'           | with gravel, poorly | SP                     |                     |  |
| 3                  |   |                                 |        |        | 0.0      |                        |  |                                     |  |                     |                        | $\sqrt{3.2}$ ft bgs |  |
| 4                  |   |                                 |        |        |          | V                      |  |                                     |  |                     |                        |                     |  |
| 5                  |   |                                 |        |        |          | NOI                    | 4.0 - 6.8                              | No recovery                         |  |                     |                        |                     |  |
| 6                  |   |                                 |        |        |          |                        | 6.8 - 6.9                              | Medium to coar graded               | se sand with trace grav                          | el, wet, poorly     | SP                     |                     |  |
| 7                  | 2   | 4.0/1.2                         |        |        |          | Strong odor /<br>stain | 6.9 - 8.0                              |                                     | ne sand with trace silt, on aphthalene odor (MGI | -                   | SP                     |                     |  |
| 8                  |   |                                 |        |        |          |                        |  |                                     |  |                     |                        |                     |  |
| 9                  |   |                                 |        |        |          |                        | 8.0 - 9.1                              | Same as above                       |  |                     |                        |                     |  |
| 10                 |   |                                 |        |        |          | NOI                    | 9.1 - 11.2                             | Change to light<br>odor or observe  | brown/orange fine to n<br>d impacts              | nedium sands, no    | SP                     |                     |  |
| 11                 | 3   | 4.0/4.0                         |        |        |          |                        | 11.2 - 12.0                            | Olive gray, very                    | fine sand with trace si                          | lts, poorly graded  | SP                     |                     |  |
| 12                 |   |                                 |        |        |          |                        |  |                                     |  |                     |                        |                     |  |
| 13                 |   |                                 |        |        |          | NOI                    | 12.0 - 15.0                            | Light brown/oliv                    | ve, fine sands, wet, poo                         | rly graded          | SP                     |                     |  |
| 14                 | 4   | 3.0/3.0                         |        |        |          |                        |  |                                     |  |                     |                        |                     |  |
| 15                 |   |                                 |        |        |          |                        |  | CD : D :                            | 1.150  |                     |                        |                     |  |
|                    |   |                                 |        |        |          |                        | Botton                                 | n of Boring - Refus                 | sai - 15° bgs                                    |                     |                        |                     |  |

NOTES: - Refusal at 15' bgs

<sup>-</sup> slight petroleum odor (no PID response) observed at 3.4 - 4.0 bgs

|   | ACT                 | EC                | Project Name:                          | Saranac Lak                        | e Gas Company                |                   | Boring II            | D: SB-339       |  |
|---|---------------------|-------------------|--|------------------------------------|------------------------------|-------------------|----------------------|-----------------|--|
|   | ACT                 | EC                | Project Location:                      | Saranac Lake                       |                              |                   | Page No.             | . 1             |  |
| 511 Congress Str  | eet, Portland Maine | 04101             | Project No.: 3611161193 Client: NYSDEC |                                    |                              |                   | of: 1                |                 |  |
| Boring Location: A  | -                   |                   | Refusal Depth:                         |                                    |                              |                   |                      | le ID/OD: 2.25" |  |
| Weather: Overcast (   |                     |                   | Soil Drilled:                          | 8.0'                               | Method: Direct               |                   | Casing S             |                 |  |
|   | recision Environn   | nental            |  |                                    | Protection Level:            | D                 | Sampler:             |                 |  |
| Oriller: Mike Dud   | lley                |                   | Date Started:                          | 11/17/2016                         | Date Completed:              | 11/17/2016        | Sampler              |                 |  |
| Rig Type/Model: (   | ,                   |                   | Logged By:                             | D. Farrell                         | Checked By:                  | B. Havens         | - r                  |                 |  |
| Reference Elevation:  |                     |                   | Water Level:                           | In brook                           | Time: 1145                   |                   |                      |                 |  |
| Sample Informa  |                     | onitoring         |  | - 2 4                              |                              |                   |                      |                 |  |
| Oppth (feet bgs) Sample Number Penetration/ Recovery (feet) | QIA                 | Waste Encountered | S                                      | Sample Descripti                   | on and Classification        | 1                 | USCS Group<br>Symbol | Remarks         |  |
| 1   | 0.0                 | Staining, odor    | 1.7 - 3.9                              | Dark stained, m<br>odor, no PID re | redium sand with some sponse | fine sand, slight | SP                   |                 |  |
| 2<br>3<br>4   | 0.0<br>3.9<br>4.7   | Blebs             | 3.9 - 4.0                              | fine sand, PID 1                   | •                            |                   | SP                   |                 |  |
|   |                     |                   | 4.0 - 4.2                              | Same as above,                     | likely cave-in               |                   | 1                    |                 |  |
| 5   | 0.0                 | NOI               | 4.2 - 5.9                              | Medium to coar                     | ese sand, poorly graded,     | NOI               | SP                   |                 |  |
| 6 2 4.0/3.8   | 0.0                 |                   | 5.9 - 7.5                              | Coarse sand, No                    | OI                           |                   | SP                   |                 |  |
| 8   |                     |                   | 7.5 - 8.0                              | Coarse sand with                   | th gravel, NOI               |                   | SP                   |                 |  |

**NOTES:** - No observable impacts below 4' bgs

- At mouth of culvert that runs beneath rail tracks

| 511 C           | M                               |             | DELTH CONTROL OF THE PARTY OF T |                   |                   |                   | G LOG                 |                       |                      |                  |
|-----------------|---------------------------------|-------------|--|-------------------|-------------------|-------------------|-----------------------|-----------------------|----------------------|------------------|
| 511 C           |                                 | ^ 1         |  | EC                | Project Name:     | Saranac Lak       | e Gas Compan          | y                     | Boring 1             | D: SB-340        |
|                 | TAT                             | 71          | $\mathbf{L}$   | LC                | Project Location: | Saranac Lake      | , NY                  |                       | Page No              | o. 1             |
| in-T-           | Congress S                      | treet, Port | and Maine  | 04101             | Project No.: 361  | 1161193           | Client: N             | YSDEC                 | C                    | f: 1             |
| oring Lo        | cation:                         | Downtre     | am from S  | B-339             | Refusal Depth:    | NA                | Total Depth:          | 8.0' bgs              | Bore Ho              | ole ID/OD: 2.25" |
| Veather:        | Overcas                         | t (35° F)   |  |                   | Soil Drilled:     | 8.0'              | Method: Di            | rect Push             | Casing S             | Size: 2.25"      |
| ubcontra        | ctor:                           | Precision   | Environn   | nental            |                   |                   | Protection Lev        | vel: D                | Sampler              | : Macrocore      |
| riller:         | Mike Du                         | udley       |  |                   | Date Started:     | 11/17/2016        | Date Complet          | ted: 11/17/2016       | 5 Sampler            | ID/OD: 2.0"      |
| ig Type/l       | Model:                          | Geoprob     | e/Bobcat   |                   | Logged By:        | D. Farrell        | Checked By:           | B. Havens             |                      |                  |
| Reference       | Elevatio                        | n:          |  |                   | Water Level:      | In brook          | Time: 12              | 200                   |                      |                  |
| Samp            | le Inform                       | nation      | Me   | onitoring         |                   |                   |                       |                       |                      |                  |
| Sample Number   | Penetration/<br>Recovery (feet) |             | PID  | Waste Encountered | S                 | Sample Descript   | ion and Classific     | eation                | USCS Group<br>Symbol | Remarks          |
|                 |                                 |             |  |                   | 0.0 - 2.0         | No recovery       |                       |                       | SP                   |                  |
| 1               |                                 |             | 0.0  | Staining, odor,   |                   |                   |                       |                       |                      |                  |
|                 |                                 |             |  | sheen             |                   |                   |                       |                       |                      |                  |
| 2 1             | 4.0/2.0                         |             | 1.7  |                   | 2.0 - 2.2         | Medium to coa     |                       | vel, sheen present w  | ith SP               |                  |
| 3               |                                 |             | 2.9  |                   | 2.2 - 4.0         | Change to poor    | ly graded, dark bro   | own fine sand, slight | odor                 |                  |
| ,               |                                 |             |  |                   |                   |                   |                       |                       | SP                   |                  |
| 4               |                                 |             | 1.3  |                   |                   |                   |                       |                       |                      |                  |
| _               |                                 | ·····       | 1.6  |                   | 4.0 - 5.5         | Same as above,    | likely cave-in        |                       | SP                   |                  |
| 5               |                                 |             | 0.9  |                   |                   |                   |                       |                       |                      |                  |
| $\dashv$ $\mid$ |                                 |             |  | <b>V</b>          | 55.00             | Grav medium       | to coarse sand, son   | ne gravel NOI         | CD                   |                  |
| 6               |                                 |             | 0.0  | NOI               | 5.5 - 8.0         | oraj, medium      | 2011.00 0111111, 0011 |                       | SP                   |                  |
| 2               | 4.0/4.0                         |             |  |                   |                   |                   |                       |                       |                      |                  |
| 7               |                                 |             | 0.0  |                   |                   |                   |                       |                       |                      |                  |
| 8               |                                 |             | 0.0  |                   |                   |                   |                       |                       |                      |                  |
|                 |                                 |             |  | $\forall$         |                   |                   |                       |                       |                      |                  |
|                 |                                 |             |  |                   | В                 | ottom of Boring - | 8.0' bgs              |                       |                      | _                |
|                 |                                 |             |  |                   |                   |                   |                       |                       |                      |                  |

NOTES: - No observable impacts below 5.5' bgs

- At mouth of culvert that runs beneath rail tracks

|               |  |          |        |           |                   | D : .N            | IL BORING                 | LOG                  |                          | D :                  | GD 244              |
|---------------|--|----------|--------|-----------|-------------------|-------------------|---------------------------|----------------------|--------------------------|----------------------|---------------------|
| 210           | 7/   | 1        | 1      | T         | EC                | Project Name:     | Saranac Lak               | e Gas Company        |                          | Boring ID            | D: SB-341           |
|               | TAT  | $\Gamma$ | 11     | $\perp$   | LU                | Project Location: | Saranac Lake              |                      |                          | Page No.             | 1                   |
| 511           | Congress   | Street,  | Portla | and Maine | 04101             | Project No.: 3611 | 1161193                   | Client: NY           | SDEC                     | of:                  | 1                   |
| oring L       | ocation:   | 23' 1    | NE fro | om SB-33  | 88                | Refusal Depth:    | NA                        | Total Depth:         | 12' bgs                  | Bore Hole            | e ID/OD: 2.25"      |
| Veather       | Overca   | st (40   | ° F)   |           |                   | Soil Drilled:     | 12 '                      | Method: Dire         | ct Push                  | Casing Si            | ze: 2.25"           |
| ubconti       | actor:   | Prec     | ision  | Environn  | nental            |                   |                           | Protection Leve      | l: D                     | Sampler:             | Macrocore           |
| riller:       | riller: Mike Dudley Date Started: 11/17/2016 Date Completed: 11/17/201 |          |        |           |                   |                   |                           |                      | d: 11/17/2016            | Sampler I            | D/OD: 2.0"          |
| ig Type       | e/Model:   | Geo      | prob   | e/Bobcat  |                   | Logged By:        | D. Farrell                | Checked By:          | B. Havens                |                      |                     |
| eferenc       | e Elevati  | on:      |        |           |                   | Water Level:      | ~ 3.8 ft bgs              | Time: 130            | )                        |                      |                     |
| Sam           | ple Infor  | matio    | n      | Mo        | onitoring         |                   |                           |                      |                          |                      |                     |
| Sample Number | Penetration/<br>Recovery (feet)  |          |        | PID       | Waste Encountered | S                 | Sample Descripti          | on and Classifica    | ion                      | USCS Group<br>Symbol | Remarks             |
|               |  |          |        |           |                   | 0.0 - 0.8         | No recovery               |                      |                          |                      |                     |
| 1             |  |          |        | 0.0       | NOI               | 0.8 - 1.0         | Topsoil, grass, 1         | nedium sand, poorl   | graded                   | SP                   |                     |
| $\dashv$      |  |          |        |           |                   | 1.0 - 3.8         | Light brown, m            | edium sand with so   | ne gravel, dry poorly    | SP                   |                     |
| 2 1           | 4.0/3.2  |          |        |           |                   |                   | graded                    |                      | _ · · · · · ·            | 51                   |                     |
| 3             |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
| 4             |  |          |        |           | $\downarrow$      | 3.8 - 4.0         |                           | sand, loose, poorly  | graded, wet              | SP                   | $\nabla$ 3.8 ft bgs |
| 5             |  |          |        |           |                   | 4.0 - 4.8         | No recovery               |                      |                          |                      |                     |
|               |  |          |        | 0.0       | NOI               | 4.8 - 6.9         | Same as 3.8 - 4.          | .0                   |                          | SP                   |                     |
| 6<br>2        | 4.0/3.2  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
| 8             |  |          |        |           |                   | 6.9 - 8.0         | Dark orange/bro<br>graded | own, fine sand with  | trace silts, wet, poorly | SP                   |                     |
| <del></del>   |  | ·        | †      |           |                   | 8.0 - 12.0        |                           | ed to coarse sand, p | oorly graded wet         | SP                   |                     |
| 9             |  |          |        | 0.0       | NOI               |                   | , III                     |                      | <i>y 6</i> ,ec           |                      |                     |
| $\dashv$      |  |          |        | 0.0       | 1101              |                   |                           |                      |                          |                      |                     |
| 10            |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
| 3             | 4.0/4.0  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
| 11            |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
| . ]           |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
| 12            |  |          |        |           | $\downarrow$      |                   |                           |                      |                          |                      |                     |
|               |  | 1        | 1      | 1         | 1                 | В                 | ottom of Boring -         | 12' bgs              |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          |        |           |                   |                   |                           |                      |                          |                      |                     |
|               |  |          | -      |           |                   |                   |                           |                      |                          |                      |                     |
| TES           | No obse  | rvable   | impac  | ets       |                   |                   |                           |                      |                          |                      |                     |
|               | -  |          |        |           |                   |                   |                           |                      |                          |                      |                     |

| 1                | 10                                     | N /                             | ۸        | C         | ГТ         |                   | Project Name:     | Saranac Lak      | e Gas Company              |                  | Boring II  | D: SB-342    |  |
|------------------|--|---------------------------------|----------|-----------|------------|-------------------|-------------------|------------------|----------------------------|------------------|--|--------------|--|
|                  | 4                                      | IVI                             | A        |           | 11         | $\mathbf{EC}$     | Project Location: | Saranac Lake     |                            |                  | Page No.   | 1            |  |
|                  | 511 C                                  | Congress S                      | treet. P | ortland M | laine 0410 | 01                | Project No.: 361  |                  | Client: NYSD               | DEC              | of   |              |  |
|                  |  | cation:                         |          |           |            | -                 | Refusal Depth:    | 8.0' bgs         | Total Depth:               | 8.0' bgs         | Bore Hol   |              |  |
|                  | _                                      | Overcas                         |          |           |            |                   | Soil Drilled:     | 8.0'             | Method: Direct             |                  | Casing Size: 2.25"                               |              |  |
|                  | aubcontractor: Precision Environmental |                                 |          |           |            |                   |                   |                  | Protection Level:          | D                | Sampler:   |              |  |
| Drille           |  | Mike D                          |          |           |            |                   | Date Started:     | 11/17/2016       | Date Completed:            | 11/17/2016       | Sampler  |              |  |
| Rig T            | vpe/                                   | Model:                          | Geop     | robe/Bol  | ocat       |                   | Logged By:        | D. Farrell       | Checked By:                | B. Havens        | <del>                                     </del> |              |  |
| _                |  | Elevatio                        |          |           |            |                   | Water Level:      | ~5.0' bgs        | Time: 1320                 |                  | +  |              |  |
|                  |  | le Inforn                       |          |           | Monit      | oring             |                   |                  |                            |                  | +  |              |  |
| Oepth (feet bgs) | Sample Number                          | Penetration/<br>Recovery (feet) |          | 4         | TID.       | Waste Encountered | :                 | Sample Descripti | ion and Classificatio      | n                | USCS Group<br>Symbol                             | Remarks      |  |
|                  |  |                                 |          |           |            |                   | 0.0 - 0.4         | Organics, dark   | brown, dry                 |                  |  |              |  |
| 1                |  |                                 |          | 0         | 0.0        | NOI               | 0.4 - 4.0         | Light brown, m   | edium sand, poorly gra     | ded, dry/moist   | SP   |              |  |
|                  |  |                                 |          |           |            |                   |                   |                  |                            |                  |  |              |  |
| 2                |  |                                 |          |           |            |                   |                   |                  |                            |                  |  |              |  |
|                  | 1                                      | 4.0/1.7                         |          |           |            |                   |                   |                  |                            |                  |  |              |  |
| 3                |  |                                 |          |           | 0.0        |                   |                   |                  |                            |                  |  |              |  |
|                  |  |                                 |          |           |            |                   |                   |                  |                            |                  |  |              |  |
| 4                |  |                                 |          |           |            | *                 |                   |                  |                            |                  |  |              |  |
| ·                |  |                                 | <u> </u> |           |            |                   |                   |                  |                            |                  |  |              |  |
| _                |  |                                 |          | C         | 0.0        | <b></b>           | 4.0 - 6.7         | Same as above,   | becoming medium to         | coarse           | SP   |              |  |
| 5                |  |                                 |          |           |            | NOI               |                   |                  |                            |                  |  | ∇ 5.0 ft bgs |  |
| $\neg$           |  |                                 |          |           | 0.0        | ı                 |                   |                  |                            |                  |  | . 5.0 10 025 |  |
| 6                |  |                                 |          |           |            |                   | 6.7 - 8.0         | Dark brown, loo  | ose, fine sand trace silts | s, poorly graded | SP   |              |  |
|                  | 2                                      | 4.0/3.0                         |          |           |            |                   | 0.7 - 6.0         | , 101            | ,                          | , 1 - 7 8        | or   |              |  |
| 7                |  |                                 |          |           | 0.0        |                   |                   |                  |                            |                  |  |              |  |
|                  |  |                                 |          |           |            |                   |                   |                  |                            |                  |  |              |  |
| ٥                |  |                                 |          |           |            | $\downarrow$      |                   |                  |                            |                  |  |              |  |
| 8                |  |                                 |          |           | 2.6        | Slight odor       | 8.0               | Slight odor (fue | el-like) at 8.0' bgs       |                  |  |              |  |

**NOTES:** - No observable impacts below 4' bgs

- At mouth of culvert that runs beneath rail tracks

|                    |  |                                 |        |               |                    | S                | SOIL BORIN                     | G LOG   |                   |                        |                     |  |
|--------------------|--|---------------------------------|--------|---------------|--------------------|------------------|--------------------------------|---|-------------------|------------------------|---------------------|--|
| 1                  |  | M                               | Α      | CT            | EC                 | Project Name:    |                                | ke Gas Company  |                   | Boring II              | D: SB-343           |  |
|                    |  |                                 |        |               |                    | Project Location |                                |   |                   | Page No.               | 1                   |  |
|                    |  |                                 |        | Portland Mair |                    | Project No.: 3   |                                |   |                   |                        |                     |  |
|                    |  |                                 |        | rn delineati  | on of UST          | Refusal Depth:   | : 15' bgs                      | Total Depth:  | 15' bgs           | Bore Hole ID/OD: 2.25" |                     |  |
| Wea                | her:   | Overcas                         |        |               |                    | Soil Drilled:    | 15'                            | Method: Direct  | Push              | Casing S               | ize: 2.25"          |  |
| Subc               | ontra  | ctor:                           | Precis | sion Enviro   | nmental            |                  |                                | Protection Level:                                     | D                 | Sampler:               | Macrocore           |  |
| Drill              | Driller: Mike Dudley Date Started: 11/17/2016 Date Completed: 11/17/2016 |                                 |        |               |                    |                  |                                |   |                   | Sampler                | ID/OD: 2.0"         |  |
| Rig '              | Гуре/.   | Model:                          | Geop   | robe/Bobca    | t                  | Logged By:       | D. Farrell                     | Checked By:   | B. Havens         |                        |                     |  |
|                    |  | Elevation                       |        |               |                    | Water Level:     | ~ 4.0 ft bgs                   | Time: 1350  |                   |                        |                     |  |
|                    | Samp   | le Inforn                       | nation | ]             | Monitoring         | _                |                                |   |                   |                        |                     |  |
| O Depth (feet bgs) | Sample Number  | Penetration/<br>Recovery (feet) |        | QId           | Waste Encountered  |                  | Sample Descrip                 | USCS Group<br>Symbol                                  | Remarks           |                        |                     |  |
|                    |  |                                 |        |               |                    | 0.0 - 2.0        | No recovery                    |   |                   |                        |                     |  |
| 1                  |  |                                 |        | 0.0           | NOI                |                  |                                |   |                   |                        |                     |  |
| 2                  | 1  | 4.0/2.0                         |        |               |                    | 2.0 - 2.4        | Dark brown, o<br>poorly graded | rganic/topsoil, grass, fine                           | e to medium sand, | SP                     |                     |  |
| 3                  |  |                                 |        | 0.0           |                    | 2.4 - 4.0        | Light brown, n                 | nedium sand with some a                               | gravel, wet ~4.0' | SP                     |                     |  |
| 4                  |  |                                 |        |               |                    |                  |                                |   |                   |                        | $\nabla$ 4.0 ft bgs |  |
| 5                  |  |                                 |        | 0.0           | NOI                |                  | - No recovery 4.<br>sampler    | 0 - 7.8, only recovery is                             | in toe of macro-  |                        |                     |  |
| 7                  | 2  | 4.0/0.2                         |        | 0.0           |                    |                  |                                |   |                   |                        |                     |  |
| 8                  |  |                                 |        | 2.6           | Slight odor        | 3.8 - 4.0        | (slight)                       | graded, medium sand, na                               |                   | SP                     |                     |  |
| 9                  |  |                                 |        | 19.6          |                    | 8.0 - 10.5       | Poor/no recove                 | ery   |                   |                        |                     |  |
| 10                 | 3  | 4.0/1.5                         |        | 17.0          | Strong odor, blebs | 10.5             |                                | ım sand, poorly graded, ı<br>PL blebs, sheen on wateı |                   | SP                     |                     |  |
| 11                 |  |                                 |        | 0.9           | Slight odor        | 11.5 - 12.0      | Change to non                  | -stained, fine sands, very                            | slight odor       | SP                     |                     |  |
| 12                 |  |                                 |        | 2.5           |                    | 12.0 - 14.3      |                                | nedium sands, slight stair                            |                   | SP                     |                     |  |
| 13                 |  |                                 |        | 3.8           |                    |                  | (tuel-like) and                | naphthalene odor (MGP                                 | )                 |                        |                     |  |
| 15                 | 4  | 3.0/3.0                         |        | 0.0           | NOI                | 14.3 - 15.0      | -                              | ne sands, trace silts, NOI                            |                   | SP                     |                     |  |
|                    |  |                                 | _      |               |                    | Во               | ottom of Boring - Ref          | usal - 15' bgs  |                   |                        |                     |  |

NOTES: - Refusal at 15' bgs

<sup>-</sup> Mix of naphthalene and fuel odors observed from 11.5 - 14.3, could be due to cave-in. Also, MGP impacts were very strong could hide fuel-like odor if they are comingled

| Project Name   Surranae Take Gas Compuny   Boring   Dis SB-PZ-344  |          |               |                                 |          |          |            |                   | SO                | IL BORING         | G LOG                     |                  |                      |                     |  |  |
|--|----------|---------------|---------------------------------|----------|----------|------------|-------------------|-------------------|-------------------|---------------------------|------------------|----------------------|---------------------|--|--|
| Second   Process   Proce | 0        | 100           | N A                             | Λ        | -        | 77         | EC                | Project Name:     | Saranac Lak       | e Gas Company             |                  | Boring ID            | ): SB/PZ-344        |  |  |
| Second   Process   Proce |          | 4             | IVI                             | P        | IC       | L          | EC                | Project Location: |                   |                           |                  | Page No.             | 1                   |  |  |
| Note    | 9        |               |                                 |          |          |            |                   |                   |                   |                           | EC               |                      |                     |  |  |
| Subcontact   | Bori     | ng Lo         | cation:                         | Sout     | hern o   | delineatio | n of UST          |                   |                   |                           |                  | Bore Hole            | e ID/OD: 2.25"      |  |  |
| Substitution   Procession Environmental   Date Countries   Date   Sampler   Macrocore  | Wea      | ther:         | Overcas                         | t (40°   | ° F)     |            |                   | t                 | 16'               |                           | Push             | Casing Size: 2.25"   |                     |  |  |
| Ref   Type Model:   Geoprobe Bobcat   Logged By:   D. Farrell   Checked By:   B. Havens  | Subc     | ontra         | ctor:                           | Prec     | ision    | Environn   | nental            |                   |                   | Protection Level:         | D                |                      |                     |  |  |
| Monitoring   Sample   Information   Monitoring   Sample   Information   Monitoring   Sample   Information   Monitoring   Sample   Description and Classification   Sample   Description   Descriptio | Drill    | er:           | Mike D                          | udley    |          |            |                   | Date Started:     | 11/17/2016        | Date Completed:           | 11/17/2016       | Sampler I            | D/OD: 2.0"          |  |  |
| Sample Information   | Rig '    | Гуре/         | Model:                          | Geo      | probe    | e/Bobcat   |                   | Logged By:        | D. Farrell        | Checked By:               | B. Havens        |                      |                     |  |  |
| Sample Description and Classification   Sample Description    | Refe     | rence         | Elevation                       | n:       |          |            |                   | Water Level:      | ~ 4.0 ft bgs      | Time: 1440                |                  |                      |                     |  |  |
| 1  |          | Samp          | le Inform                       | natio    | n        | Mo         |                   |                   |                   |                           |                  |                      |                     |  |  |
| 1  |          | Sample Number | Penetration/<br>Recovery (feet) |          |          | PID        | Waste Encountered | s                 | ample Description | on and Classification     | 1                | USCS Group<br>Symbol | Remarks             |  |  |
| 2  | 1        |               |                                 |          |          | 0.0        | NOI               | 0 - 1.9           | No recovery       |                           |                  |                      |                     |  |  |
| 2  |          |               |                                 |          |          | 0.0        | 1,01              | 19-24             | Dark brown or     | panic/topsoil/grass       |                  |                      |                     |  |  |
| 1  | 2        |               |                                 |          |          | 0.0        |                   |                   | _                 |                           | pravel wet ~4 0' | CD                   |                     |  |  |
| The image of the | _        | 1             | 4.0/2.1                         |          |          | 0.0        |                   | 2.4 - 4.0         | -                 |                           | 514.04, 110      | SP                   |                     |  |  |
| 4  | 3        |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 4  |          |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| SP   | 4        |               |                                 |          |          | 0.0        |                   |                   |                   |                           |                  |                      | $\nabla$ 4.0 ft bgs |  |  |
| 5  | -        |               |                                 |          |          |            | $\downarrow$      |                   |                   |                           |                  |                      |                     |  |  |
| 0.0   NOI  |          | ļ             |                                 |          | İ        |            |                   | 4.0 - 7.8         | Same as above     |                           | •                | SP                   |                     |  |  |
| Column   C | 5        |               |                                 |          |          | 0.0        | NOI               |                   |                   |                           |                  |                      |                     |  |  |
| 2   4.0/3.8   0.0   0.0  |          | 1             |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 7  | 6        |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 7  |          | 2             | 4.0/3.8                         |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 9  | 7        |               |                                 |          |          | 0.0        |                   |                   |                   |                           |                  |                      |                     |  |  |
| 9  |          |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 9  | 8        |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 9   0.0   NOI   8.0 - 12.0   Medium sands with trace silts, poorly graded, wet   SP     10   3   4.0/4.0   0.0   0.0     12.0 - 16.0   Medium to coarse sands with trace silts, poorly grad.   SP   13   4   4.0/4.0   15   4   4.0/4.0   16   16   16   16   16   16   17   18   18   18   18   18   18   18  |          |               |                                 |          | <u> </u> | 0.0        | Slight odor       |                   | Same as above,    | with very slight fuel-lik | te odor          |                      |                     |  |  |
| 9   0.0   NOI   0.0   11   12   0.0   NOI   0.0   12.0 - 16.0   Medium to coarse sands with trace silts, poorly grad.   SP   NOI   15   16   16   16   16   16   16   17   18   18   18   18   18   18   18  | _        |               |                                 |          |          | · <b></b>  |                   |                   |                   |                           |                  |                      |                     |  |  |
| 3 4.0/4.0 0.0 0.0 12.0 - 16.0 Medium to coarse sands with trace silts, poorly grad. SP  NOI  14 4 4.0/4.0 15   | 9        |               |                                 |          |          | 0.0        | NOI               |                   |                   |                           |                  |                      |                     |  |  |
| 3 4.0/4.0 0.0 0.0 12.0 - 16.0 Medium to coarse sands with trace silts, poorly grad. SP  NOI  14 4 4.0/4.0 15   |          |               |                                 |          |          |            | ı                 |                   |                   |                           |                  |                      |                     |  |  |
| 11   | 10       |               |                                 |          |          | 0.0        |                   | 1                 |                   |                           |                  |                      |                     |  |  |
| 12 0.0 0.0   |          | 3             | 4.0/4.0                         |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 12   12   12.0 - 16.0   Medium to coarse sands with trace silts, poorly grad.   SP   NOI   15   16   16   16   17   18   18   19   19   19   19   19   19  | 11       |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 12   12   12.0 - 16.0   Medium to coarse sands with trace silts, poorly grad.   SP   NOI   15   16   16   16   17   18   18   19   19   19   19   19   19  | _        |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| 13 NOI NOI 15 16   | 12       |               |                                 |          |          | 0.0        |                   |                   |                   |                           |                  |                      |                     |  |  |
| 13 NOI NOI 15 16   |          | ļ             |                                 | <u> </u> | ļ        | <b> </b>   | Ψ                 |                   |                   |                           |                  |                      |                     |  |  |
| NOI  14  4 4.0/4.0  16   | 13       |               |                                 |          |          |            |                   | 12.0 - 16.0       | Medium to coar    | se sands with trace silts | , poorly grad.   | SP                   |                     |  |  |
| 15 4 4.0/4.0<br>16   | 13       |               |                                 |          |          |            | NOI               |                   |                   |                           |                  |                      |                     |  |  |
| 15 4 4.0/4.0<br>16   |          |               |                                 |          |          |            |                   | 1                 |                   |                           |                  |                      |                     |  |  |
| 15   | 14       |               |                                 |          |          |            |                   | 1                 |                   |                           |                  |                      |                     |  |  |
|  |          | 4             | 4.0/4.0                         |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
|  | 15       |               |                                 |          |          |            |                   | 1                 |                   |                           |                  |                      |                     |  |  |
|  |          |               |                                 |          |          |            |                   |                   |                   |                           |                  |                      |                     |  |  |
| Bottom of Boring - 16' bgs   | 16       |               |                                 |          |          |            |                   | 1                 |                   |                           |                  |                      |                     |  |  |
| NOTES: No observable impacts, excepting slight fuel-like odor (7.8' bgs)   | <b>.</b> | NT. C         |                                 | <u> </u> | <u> </u> |            |                   |                   | Bottom of I       | Boring - 16' bgs          |                  |                      |                     |  |  |

**NOTES:** No observable impacts, excepting slight fuel-like odor (7.8' bgs)

|  | SOIL BORING LOG                                    |                                  |  |  |
|--|--|----------------------------------|--|--|
| <b>MACTEO</b>  | Project Name: Saranac Lake Gas Company             | Boring ID: HB-401                |  |  |
|  |  | Page No. 1                       |  |  |
| 511 Congress Street, Portland Maine 04101                        | Project No.: 3611161193 Client: NYSDEC             | of: 1                            |  |  |
| Boring Location: Depositional area of BB                         | Refusal Depth: NA Total Depth: 4.0' bgs            | Bore Hole ID/OD: 1.5"            |  |  |
| Weather: Sunny (40° F)   | Soil Drilled: 4.0' Method: Direct Push             | Casing Size: NA                  |  |  |
| Subcontractor: NA  | Protection Level: D                                | Sampler: Macrocore               |  |  |
| Driller: D. Farrell  | Date Started: 11/7/2016 Date Completed: 11/7/2016  | Sampler ID/OD: 1.5"              |  |  |
| Rig Type/Model: Geoprobe Handtools                               | Logged By: J. Cozens Checked By: B. Havens         |                                  |  |  |
| Reference Elevation:   | Water Level: In brook Time: 930                    |                                  |  |  |
| Sample Information Monitoring                                    |  |                                  |  |  |
| Sample Number Penetration/ Recovery (feet) PID Waste Encountered | Sample Description and Classification              | USCS Group Symbol Remarks        |  |  |
| 0.5 0.0 NO   | Sample 0 - 2' bgs - 5 blows<br>Top 0.4'            | 0.3' water above sample location |  |  |
| 1  | Black organics, few silt, wet                      | РТ                               |  |  |
| 1.5 2.0/1.9 0.0  | Bottom 0.9' Brown sand (f-m), wet                  | SP                               |  |  |
| 2  |  |                                  |  |  |
| 2.5 0.0 NO   | Sample 2 - 4' bgs - 34 blows<br>Top 0.6'           |                                  |  |  |
| 2 2.0/2.0  | Black, silt, trace sand (f), wet                   | ML                               |  |  |
| 3.5  | Bottom 1.4' Brown/tan, sand (f-m), trace silt, wet | SP                               |  |  |
| 4  | Bottom of Boring - 4.0' bgs                        |                                  |  |  |
|  |  |                                  |  |  |
| NOTES: - No observable impacts                                   |  | SOIL BORING LOG                  |  |  |

|   | SOIL BORING LOG  |                                  |
|---|--|----------------------------------|
| <b>MACTEC</b>   | Project Name: Saranac Lake Gas Company                                   | Boring ID: HB-402                |
| MINCILC   | Project Location: Saranac Lake, NY                                       | Page No. 1                       |
| 511 Congress Street, Portland Maine 04101                         | Project No.: 3611161193 Client: NYSDEC                                   | of: 1                            |
| Boring Location: Depositional area of BB                          | Refusal Depth: NA Total Depth: 4.0' bgs                                  | Bore Hole ID/OD: 1.5"            |
| Weather: Sunny (40° F)  | Soil Drilled: 4.0' Method: Direct Push                                   | Casing Size: NA                  |
| Subcontractor: NA   | Protection Level: D  | Sampler: Macrocore               |
| Driller: D. Farrell   | Date Started: 11/7/2016 Date Completed: 11/7/2016                        | Sampler ID/OD: 1.5"              |
| Rig Type/Model: Geoprobe Handtools                                | Logged By: J. Cozens Checked By: B. Havens                               |                                  |
| Reference Elevation:  | Water Level: In brook Time: 1030   |                                  |
| Sample Information Monitoring                                     |  |                                  |
| Sample Number Penetration/ Recovery (feet) PID  Waste Encountered | Sample Description and Classification                                    | USCS Group<br>Symbol<br>Remarks  |
| 0.5 0.0 NOI   | Sample 0 - 2' bgs - 4 blows Top 0.5'                                     | 0.5' water above sample location |
| 1   | Dark brown, organics, wet  | PT                               |
| 1.5   | Med 0.2' Brown/tan, sand (f-c), wet, slight odor                         | SP                               |
| 2 0.9 Slight odor   | Bottom 0.3'  Back sand (f-m), few silt, wet, slight odor                 | SM                               |
| 2.5 0.0 NOI   | Sample 2 - 4' bgs - 15 blows  Top 1.1'  Black, silt, trace sand (f), wet | ML                               |
| 2 2.0/1.7   |  | IVIL                             |
| 3.5   | Bottom 0.6' Brown, sand(f-m), trace silt, wet                            | SP                               |
| 4   |  |                                  |
|   | Bottom of Boring - 4.0' bgs  |                                  |
|   |  |                                  |
| NOTES: - Slight odor (0.9 ppm) at 1.8' bgs                        |  | SOIL BORING LOG                  |

|                    |               |                                 |                |             |                   |   | L BORING                     | G LOG                  |           |                      |                                 |
|--------------------|---------------|---------------------------------|----------------|-------------|-------------------|---|------------------------------|------------------------|-----------|----------------------|---------------------------------|
| 1                  | 100           | N A                             | 11             | T           | EC                | Project Name:   | Saranac Lak                  | te Gas Company         |           | Boring I             | D: HB-403                       |
|                    | 4             | IVI                             | A              | L           | $\mathbf{EC}$     | Project Location:   | Saranac Lake                 |                        |           | Page No              | . 1                             |
|                    | 511 (         | Congress S                      | Street, Portla | and Maine ( | 04101             | Project No.: 3611   | 161193                       | Client: NYSD           | EC        | O                    | f: 1                            |
| Bori               | ng Lo         | ocation:                        | Depositio      | nal area o  | f BB              | Refusal Depth:  | NA                           | Total Depth:           | 6.0' bgs  | Bore Ho              | le ID/OD: 1.5"                  |
| Wea                | her:          | Sunny (                         | 40° F)         |             |                   | Soil Drilled:   | 6.0'                         | Method: Direct         | Push      | Casing S             | Size: NA                        |
| Subc               | ontra         | ctor:                           | NA             |             |                   |   |                              | Protection Level:      | D         | Sampler              | : Macrocore                     |
| Drill              |               | D. Farre                        |                |             |                   | Date Started:   | 11/7/2016                    | Date Completed:        | 11/7/2016 | Sampler              | ID/OD: 1.5"                     |
|                    |               |                                 | Geoprob        | e Handtoo   | ls                | Logged By:  | J. Cozens                    | Checked By:            | B. Havens |                      |                                 |
|                    |               | Elevation                       |                |             |                   | Water Level:  | In brook                     | Time: 1035             |           |                      | T                               |
| _                  | Samp          | ole Inform                      | nation         | Mo          | nitoring          | 4   |                              |                        |           |                      |                                 |
| O Depth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |                | PID         | Waste Encountered | S   | ample Descripti              | ion and Classification | 1         | USCS Group<br>Symbol | Remarks                         |
| 0.5                |               |                                 |                | 0.0         | NOI               | Sample 0 - 2' bgs, 5 b<br>Top 0.4<br>Black, organics, little  |                              |                        |           | PT                   |                                 |
| 1.5                | 1             | 2.0/1.0                         |                | 0.0         |                   | Bottom 0.6<br>Gray, silt, some sand                           | (f), trace clay, we          | t, slight odor         |           | ML/SM                | Collect Sample (2 - 3')         |
| 2                  |               |                                 |                | 0.9         | <b>₩</b>          |   |                              |                        |           |                      | 516008HB40303                   |
| 2.5                |               |                                 |                | 0.0         | NOI               | Sample 2 - 4' bgs, 25 Top 0.4                                 |                              |                        |           |                      | For t(34) PAH analysis<br>10:45 |
| 3                  |               |                                 |                |             |                   | Clay, little silt, few sa                                     | and (f), wet slight          | odor, black            |           | CL                   |                                 |
| 3.5                | 2             | 2.0/1.7                         |                | 0.0         |                   | Bottom 1.0<br>Brown, sand (f), trace                          | e silt, wet                  |                        |           | SP                   |                                 |
| 2.5                |               |                                 |                | 0.0         | NOI               | Sample 4 - 6' bgs, 42<br>Top 0.4                              | blows                        |                        |           | "                    |                                 |
| 3                  | 2             | 2.0/2.0                         |                | 0.0         |                   | Brown sand (f-m), tra<br>Mid 0.4 - 1.5<br>Brown sand ©, few g |                              |                        |           | SP<br>SP             |                                 |
| 3.5                |               |                                 |                | 0.0         |                   | Bottom 0.5 Brown sand (f), trace                              | silt, trace gravel,          | wet                    |           | SP                   |                                 |
|                    |               |                                 |                |             |                   | Slight MGP odor at 5  | .9 'bgs<br>ottom of Boring - | 6.0' bgs               |           |                      |                                 |

**NOTES:** - Slight odor (0.9 ppm) at 1.8' bgs

|   | SOIL BORING LOG   |                                  |
|---|---|----------------------------------|
| <b>MACTEC</b>   | Project Name: Saranac Lake Gas Company                      | Boring ID: HB-404                |
| MINCIEC   | Project Location: Saranac Lake, NY                          | Page No. 1                       |
| 511 Congress Street, Portland Maine 04101                         | Project No.: 3611161193 Client: NYSDEC                      | of: 1                            |
| Boring Location: Depositional area of BB                          | Refusal Depth: NA Total Depth: 4.0' bgs                     | Bore Hole ID/OD: 1.5"            |
| Weather: Sunny (40° F)  | Soil Drilled: 4.0' Method: Direct Push                      | Casing Size: NA                  |
| Subcontractor: NA   | Protection Level: D   | Sampler: Macrocore               |
| Driller: D. Farrell   | Date Started: 11/7/2016 Date Completed: 11/7/2016           | Sampler ID/OD: 1.5"              |
| Rig Type/Model: Geoprobe Handtools                                | Logged By: J. Cozens Checked By: B. Havens                  |                                  |
| Reference Elevation:  | Water Level: In brook Time: 1100                            | <u> </u>                         |
| Sample Information Monitoring                                     |   |                                  |
| Sample Number Penetration/ Recovery (feet) PID  Waste Encountered | Sample Description and Classification                       | USCS Group<br>Symbol<br>Remarks  |
| 0.5 0.0 NOI   | Sample 0 - 2' bgs - 12 blows<br>Top 1.0'                    | 0.5' water above sample location |
| Slight odor   | Black, silt, trace sand, trace clay, wet, slight odor (MGP) | ML                               |
| 1.5 1 2.0/1.2 0.0   |   | SP                               |
| 2 0.9   | Brown sand (f-m), trace silt, wet                           | SM                               |
| 2.5 NOI 0.0   | Sample 2 - 4' bgs - 21 blows<br>Top 0.4'                    |                                  |
| 3 2 2.0/1.7   | Black, clay, some silt, trace sand, wet                     | CL                               |
| 3.5   | Bottom 1.3' Brown, sand(f-C), trace silt, wet               | SW                               |
| 4   |   |                                  |
|   | Bottom of Boring - 4.0' bgs                                 |                                  |
|   |   |                                  |
| NOTES: - Slight odor (0.9 ppm) at 1.8' bgs                        |   | SOIL BORING LOG                  |

|  | SOIL BORIN   | G LOG                     |                      |                                  |
|--|--|---------------------------|----------------------|----------------------------------|
| <b>MACTEC</b>  | D 1 137  | ke Gas Company            | Boring l             | D: HB-405                        |
| <b>WIACIEC</b>   | Project Location: Saranac Lak  |                           | Page No              | . 1                              |
| 511 Congress Street, Portland Maine 04101                        | Project No.: 3611161193  | Client: NYSDEC            |                      | f: 1                             |
| Boring Location: Depositional area of BB                         | Refusal Depth: NA  | Total Depth: 4.0' bgs     |                      | ele ID/OD: 1.5"                  |
| Weather: Sunny (40° F)   | Soil Drilled: 4.0'   | Method: Direct Push       | Casing S             | Size: NA                         |
| Subcontractor: NA  |  | Protection Level: D       | Sampler              |                                  |
| Oriller: D. Farrell  | Date Started: 11/7/2016  | Date Completed: 11/7/2016 |                      | ID/OD: 1.5"                      |
| Rig Type/Model: Geoprobe Handtools                               | Logged By: J. Cozens   | Checked By: B. Havens     | 1                    |                                  |
| Reference Elevation:   | Water Level: In brook  | Time: 1145                |                      |                                  |
| Sample Information Monitoring                                    |  |                           |                      |                                  |
| Sample Number Penetration/ Recovery (feet) PID Waste Encountered | Sample Descrip   | tion and Classification   | USCS Group<br>Symbol | Remarks                          |
| 0.5 0.0 NOI  | Sample 0 - 2' bgs - 3 blows<br>Black, organics, little silt, wet                   |                           |                      | 0.3' water above sample location |
| 1 2.0/0.3  |  |                           | PT                   |                                  |
| 1.5  |  |                           | SP                   |                                  |
| 2  |  |                           |                      |                                  |
| 2.5 0.0 NOI  | Sample 2 - 4' bgs - 34 blows  Top 0.5'  Black silt, little clay, few sand (f), wet |                           | ML                   |                                  |
| 2 2.0/1.5  | Bottom 1.0'  |                           | IVIL                 |                                  |
| 3.5  | Brown, sand (f-c), trace silt, wet   |                           | SW                   |                                  |
| 4  | Bottom of Boring   | 4.01.                     |                      |                                  |
|  |  |                           |                      |                                  |
| NOTES: - No observable impacts                                   |  |                           |                      | SOIL BORING LOG                  |

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| <b>MAC</b>                                 | TEC                    | Project Name:   |  | ke Gas Compa                            | ny       |                  | Boring I             |   |
|--|------------------------|---|--|---|----------|------------------|----------------------|---|
|  |                        | Project Location:   | Saranac Lake                           |   |          |                  | Page No              |   |
| 511 Congress Street, Portlar               |                        | Project No.: 3611   |  |   | NYSDE    |                  | 0                    |   |
| ring Location: Deposition                  | al area of BB          | Refusal Depth:  | 2.0' bgs                               | Total Depth:                            |          | 2.0' bgs         |                      | le ID/OD: 1.5"  |
| eather: Sunny (40° F)                      |                        | Soil Drilled:   | 2.0'                                   | Method: I                               |          |                  | Casing S             |   |
| bcontractor: NA                            |                        |   |  | Protection L                            |          | D                | Sampler              |   |
| iller: D. Farrell                          |                        | Date Started:   | 11/7/2016                              | Date Compl                              |          | 11/7/2016        | Sampler              | ID/OD: 1.5"   |
| g Type/Model: Geoprobe                     | Handtools              | Logged By:  | J. Cozens                              | Checked By                              |          | B. Havens        |                      |   |
| ference Elevation:                         |                        | Water Level:  | In brook                               | Time: 1                                 | 1430     |                  |                      | 1   |
| Sample Information                         | Monitoring             | 4   |  |   |          |                  |                      |   |
| Sample Number Penetration/ Recovery (feet) | PID Waste Encountered  | s   | ample Descript                         | ion and Classif                         | ication  |                  | USCS Group<br>Symbol | Remarks   |
| 1 2.0/0.3                                  | 948 Sheen, blebs, odor | Sample 0 - 2' bgs - 11<br>Dark black, sheen, sa<br>some blebs present |  | s, saturated with o                     | oil (MGF | P), strong odor, | SP                   | 0.3' water above sample location  Collect Sample (1-2') 516008HB40602  For t(34) PAH analysis 15:10 |
|  |                        |   | a of Boring - Refu<br>SB-340 for deepe | isal - 2.0' bgs<br>ir samples in this : | area)    |                  |                      |   |

SOIL BORING LOG

|  |                        | SOIL BORING LOG   |                                    |
|--|------------------------|---|------------------------------------|
| AMEN TAC   |                        | In the W  | Boring ID: HB-401                  |
| <b>MAC</b>   | : I F(                 | Saranac Lake Gas Company  |                                    |
| The second secon |                        |   | Page No. 1                         |
| 511 Congress Street, Portlan<br>Boring Location: Depositiona   |                        | 3   | of: 1 Bore Hole ID/OD: 1.5"        |
| Weather: Sunny (40° F)   | ai area oi bb          | Refusal Depth: NA Total Depth: 4.0' bgs  Soil Drilled: 4.0' Method: Direct Push |                                    |
| Subcontractor: NA  |                        | Protection Level: D   | Casing Size: NA Sampler: Macrocore |
| Driller: J. Cozens   |                        | Date Started: 11/8/2016 Date Completed: 11/8/2016                               | Sampler ID/OD: 1.5"                |
| Rig Type/Model: Hand Auger   | er/Geoprobe            | Logged By: D. Farrell Checked By: B. Havens                                     | Sampler ID/OD.                     |
| Reference Elevation:   | и сеоргове             | Water Level: In brook Time: 930   |                                    |
| Sample Information   | Monitoring             |   | †                                  |
| @  |                        | 7   | ٩                                  |
| Depth (feet bgs) Sample Number Penetration/ Recovery (feet)  | PID  Waste Encountered |   | OSCS Group Sympol Remarks          |
| (fee Nur Nur Strio   | PID                    | Sample Description and Classification   | Remarks                            |
| Depth (feet b<br>ample Numb<br>Penetration/<br>ecovery (fee  | En                     |   | Sy                                 |
|  | aste                   |   |                                    |
| 0.0  | ≥                      |   |                                    |
| 0.5  | NOI                    | Grab sample from hand auger   |                                    |
| 0.5  | 0.0                    | 0 - 1.5   |                                    |
|  |                        | Black, sand (m-c), some gravel, wet   | sw                                 |
| 1  | 0.0                    |   |                                    |
|  |                        |   |                                    |
| 1.5  |                        |   |                                    |
|  |                        |   |                                    |
| 2  | 0.0                    | Hand geoprobe sample 1.5 - 2.5  |                                    |
|  | <b>1</b>               | Brown sand (f-c), few gravel, wet, trace organics, very slight odor             | SW                                 |
| 2.5  | 0.2 Slight odor        |   |                                    |
| 2.5  | NOI                    |   |                                    |
|  | 0.0                    | Hand geoprobe sample 1.5 - 2.5  | ····                               |
| 3  |                        | Brown sand (f-c), few gravel, wet, trace organics, very slight odor             | SP                                 |
| $\vdash\vdash$   |                        | brown said (1-c), few graver, wet, trace organics, very singlification          | 51                                 |
| 3.5  |                        |   |                                    |
| oxdot  | 0.0                    |   |                                    |
| 4  |                        |   |                                    |
|  |                        |   |                                    |
| 4.5  |                        |   |                                    |
| 1.5  |                        |   |                                    |
|  | •                      | Bottom of Boring - 4.5' bgs   |                                    |
|  |                        |   |                                    |
| NOTES: - No observable impac   | ets                    |   | SOIL BORING LOG                    |

|   |                       | SO  | IL BORIN        | G LOG                   |           |                      |                 |
|---|-----------------------|---|-----------------|-------------------------|-----------|----------------------|-----------------|
| SHITS IT A  | TEC                   | Project Name:                                   |                 |                         |           | Boring ID:           | : HB-408        |
| <b>MAC</b>  | JEC                   | Project Location:                               |                 | ke Gas Company          |           | Page No.             | 1               |
| 511 Congress Street, Portl                                    |                       | Project No.: 361                                |                 | Client: NYSDI           | FC        | of:                  | 1               |
| Boring Location: Deposition                                   |                       | Refusal Depth:                                  | 1.2' bgs        | Total Depth:            | 1.2' bgs  | Bore Hole            |                 |
| Weather: Sunny (40° F)  | nur urea or BB        | Soil Drilled:                                   | 1.2'            | Method: Direct          |           | Casing Siz           |                 |
| Subcontractor: NA   |                       |   |                 | Protection Level:       | D         | Sampler:             | Macrocore       |
| Driller: D. Farrell   |                       | Date Started:                                   | 11/8/2016       | Date Completed:         | 11/8/2016 | Sampler II           |                 |
| Rig Type/Model: Hand Au                                       | ger/Geoprobe          | Logged By:                                      | D. Farrell      | Checked By:             | B. Havens |                      |                 |
| Reference Elevation:  | 1                     | Water Level:                                    | In brook        | Time: 1000              |           |                      |                 |
| Sample Information  | Monitoring            |   |                 |                         |           |                      |                 |
| © Depth (feet bgs) Sample Number Penetration/ Recovery (feet) | PID Waste Encountered |   | Sample Descrip  | tion and Classification | 1         | USCS Group<br>Symbol | Remarks         |
| 0.5   | 0.0 NOI               | Grab sample from h 0 - 1.2 Black, sand (m-c), s | J               |                         |           | SW                   |                 |
| 1.2   | 0.0                   | Diack, Sailu (III-C), S                         | ome graver, wet |                         |           | 3 **                 |                 |
| 1.2   |                       |   |                 |                         |           |                      |                 |
|   |                       |   |                 |                         |           |                      |                 |
| NOTES: - No observable imp                                    | acts                  |   |                 |                         |           |                      | SOIL BORING LOG |

| <b>MAC</b>                                 | וידיר       | EC                | Project Name:        | Saranac Lak        | te Gas Company         |            | Boring I             | D: HB-409               |
|--|-------------|-------------------|----------------------|--------------------|------------------------|------------|----------------------|-------------------------|
| INITAL                                     | ווע         |                   | Project Location:    | Saranac Lake       | , NY                   |            | Page No              | . 1                     |
| 511 Congress Street, Portl                 | and Maine 0 | 4101              | Project No.: 361     | 1161193            | Client: NYSD           | EC         | 0                    | f: 1                    |
| oring Location: Deposition                 | nal area of | BB                | Refusal Depth:       | 1.5' bgs           | Total Depth:           | 1.5' bgs   | Bore Ho              | le ID/OD: 1.5"          |
| eather: Sunny (40° F)                      |             |                   | Soil Drilled:        | 1.5'               | Method: Direct         | Push       | Casing S             | Size: NA                |
| ibcontractor: NA                           |             |                   |                      |                    | Protection Level:      | D          | Sampler              |                         |
| riller: D. Farrell                         |             |                   | Date Started:        | 11/11/2016         | Date Completed:        | 11/11/2016 | Sampler              | ID/OD: 1.5"             |
| g Type/Model: Hand Aug                     | ger/Geoprol | be                | Logged By:           | D. Farrell         | Checked By:            | B. Havens  |                      |                         |
| ference Elevation:                         |             |                   | Water Level:         | In brook           | Time: 1000             |            |                      |                         |
| Sample Information                         | Mon         | itoring           | 1                    |                    |                        |            |                      |                         |
| Sample Number Penetration/ Recovery (feet) | PID         | Waste Encountered |                      | Sample Descript    | ion and Classification | 1          | USCS Group<br>Symbol | Remarks                 |
|  |             | NOI               | Grab sample from h   | and auger          |                        |            |                      | Collect Sample (0 - 1') |
|  | 0.0         |                   | 0 - 1.5              |                    |                        |            |                      | 516008HB40901           |
| 1  |             |                   | Black, sand (m-c), s | some gravel, wet   |                        |            | SW                   | For t(34) PAH analysis  |
|  | 0.0         |                   |                      |                    |                        |            |                      | 10:10                   |
| 5  |             |                   |                      |                    |                        |            |                      |                         |
|  | <u> </u>    |                   | Botton               | m of Boring - Refu | sal - 1.2' bgs         |            |                      |                         |
|  |             |                   |                      |                    |                        |            |                      |                         |

|                  |               |                                 |          |        |          |                   | SC                    | OIL BORING                  | G LOG  |                   |                      |                 |
|------------------|---------------|---------------------------------|----------|--------|----------|-------------------|-----------------------|-----------------------------|--|-------------------|----------------------|-----------------|
| 1                | 107           | NΛ                              | Δ        | (      | т        | EC                | Project Name:         |                             | e Gas Company                                |                   | Boring ID            | ): SB-600       |
|                  |               | TAT                             | 1        | 11     | L        |                   | Project Location:     | Saranac Lake                | , NY   |                   | Page No.             | 1               |
|                  | 511 C         | Congress S                      | Street,  | Portla | nd Maine | 04101             | Project No.: 361      | 11161193                    | Client: NYSD                                 | EC                | of:                  | 1               |
| Borin            | ıg Lo         | cation:                         |          |        |          |                   | Refusal Depth:        | NA                          | Total Depth:                                 | 16' bgs           | Bore Hole            | e ID/OD: 2.25"  |
| Weat             | her:          | Overcas                         |          |        |          |                   | Soil Drilled:         | 16 '                        | Method: Direct                               | Push              | Casing Si            |                 |
| Subc             |               |                                 |          |        | Environn | nental            |                       |                             | Protection Level:                            | D                 | Sampler:             | Macrocore       |
| Drille           |               | Mike D                          |          |        |          |                   | Date Started:         | 3/29/2017                   | Date Completed:                              | 3/29/2017         | Sampler I            | D/OD: 2.0"      |
|                  | * 1           | Model:                          |          | probe  | e/Bobcat |                   | Logged By:            | D. Farrell                  | Checked By:                                  | L. Tierney        | <u> </u>             |                 |
|                  |               | Elevation                       |          |        |          |                   | Water Level:          | ~ 4.0 ft bgs                | Time: 900                                    |                   |                      |                 |
| _                | Samp          | le Inforn                       | natio    | 1      | Mo       | onitoring         | 4                     |                             |  |                   |                      |                 |
| Oepth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |          |        | PID      | Waste Encountered |                       | Sample Descripti            | on and Classification                        | n                 | USCS Group<br>Symbol | Remarks         |
|                  |               |                                 |          |        |          |                   | 0 - 1.7               | No recovery                 |  |                   |                      |                 |
| 1                |               |                                 |          |        | 0.0      | NOI               |                       |                             |  |                   |                      |                 |
| 2                |               |                                 |          |        |          |                   | 1.7 - 2.4             | Black asphalt /             | fill   |                   | Fill                 |                 |
| 3                | 1             | 4.0/2.3                         |          |        |          |                   | 2.4 - 4.0             | Brown/light bro<br>dry/damp | own, fine to med sand, p                     | poorly graded,    | SP                   |                 |
| 4                |               |                                 |          |        |          |                   |                       |                             |  |                   |                      | abla 4.0 ft bgs |
| -                |               |                                 |          |        |          |                   | 4.0 - 5.3             | No recovery                 |  |                   |                      |                 |
| 5                |               |                                 |          |        | 0.0      | NOI               | 5.3 - 6.5             | Gray, medium                | sand, poorly graded, we                      | t                 | SP                   |                 |
| 6<br>7           | 2             | 4.0/2.7                         |          |        |          |                   | 6.5 - 8.0             | -                           | ange, fine to mediujm s<br>et, poorly graded | and, trace gravel | SP                   |                 |
| 8                |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
|                  |               | <b></b>                         | ļ        | ļ      | <b></b>  | <b></b>           | Poor recovery in ma   |                             |  |                   | -                    |                 |
| 9                |               |                                 |          |        | 0.0      | NOI               |                       |                             |  |                   |                      |                 |
| $\vdash\vdash$   |               |                                 |          |        | 0.0      | NOI               | The 2.1' of soil logg | red was tanned out          | of macrocore                                 |                   | SP                   |                 |
| 10               |               |                                 |          |        |          |                   | Brown, fine to med    |                             |  |                   | 51                   |                 |
|                  | 3             | 4.0/2.1                         |          |        |          |                   | Drown, file to filed  | ium sanu, poony gi          | aucu, wei, ivoi                              |                   |                      |                 |
| 11               |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
| 12               |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
|                  |               | ·····                           | <b> </b> |        |          |                   | 12 - 13.5             | Very loose, bro             | wn, fine to medium san                       | d, poorly graded  | SP                   |                 |
| 13               |               |                                 |          |        | 0.0      | NOI               |                       |                             |  |                   |                      |                 |
| H                |               |                                 |          |        |          |                   | 13.5 - 16             | Light brown, m              | edium sand, poorly grad                      | ded               | SP                   |                 |
| 14               |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
| $\vdash$         | 4             | 4.0/4.0                         |          |        |          |                   |                       |                             |  |                   |                      |                 |
| 15               |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
| Н                |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
| 16               |               |                                 |          |        |          |                   |                       |                             |  |                   |                      |                 |
| NOT              | ES:           | No obser                        | vable    | impac  | ts       | •                 | •                     |                             |  |                   |                      |                 |

|                  |               |                                 |         |          |            |                   | SC                | OIL BORING                          | G LOG   |                   |                      |                         |
|------------------|---------------|---------------------------------|---------|----------|------------|-------------------|-------------------|-------------------------------------|---|-------------------|----------------------|-------------------------|
| 1                | 107           | NA                              | Δ       | (        | т          | EC                | Project Name:     | Saranac Lak                         | e Gas Company                                 |                   | Boring I             | D: SB-601               |
|                  | ▋.            | TAT                             |         | 1        | L          | LC                | Project Location: | Saranac Lake                        | , NY  |                   | Page No              | . 1                     |
|                  | 511 C         | Congress S                      | Street, | Portla   | nd Maine ( | 04101             | Project No.: 361  | 11161193                            | Client: NYSDI                                 | EC                | O                    | f: 1                    |
| Boriı            | ng Lo         | cation:                         |         |          |            |                   | Refusal Depth:    | NA                                  | Total Depth:                                  | 16' bgs           | Bore Ho              | le ID/OD: 2.25"         |
| Weat             | her:          | Overcas                         | st (35° | ° F)     |            |                   | Soil Drilled:     | 16 '                                | Method: Direct I                              | Push              | Casing S             | Size: 2.25"             |
| Subc             | ontra         | ctor:                           | Preci   | ision l  | Environm   | nental            |                   |                                     | Protection Level:                             | D                 | Sampler              | : Macrocore             |
| Drill            | er:           | Mike D                          | udley   |          |            |                   | Date Started:     | 3/29/2017                           | Date Completed:                               | 3/29/2017         | Sampler              | ID/OD: 2.0"             |
| Rig 7            | Гуре/]        | Model:                          | Geo     | probe    | /Bobcat    |                   | Logged By:        | D. Farrell                          | Checked By:                                   | L. Tierney        |                      |                         |
| Refe             | rence         | Elevation                       | n:      |          |            |                   | Water Level:      | ~ 4.0 ft bgs                        | Time: 950                                     |                   |                      |                         |
|                  | Samp          | le Inform                       | natior  | ı        | Mo         | onitoring         |                   |                                     |   |                   |                      |                         |
| Oppth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |         |          | PID        | Waste Encountered |                   | Sample Descripti                    | on and Classification                         | ı                 | USCS Group<br>Symbol | Remarks                 |
|                  |               |                                 |         |          |            |                   | 0 - 1.3           | No recovery                         |   |                   |                      |                         |
| 1                |               |                                 |         |          | 0.0        | NOI               |                   |                                     |   |                   |                      |                         |
| 2                |               |                                 |         |          | 0.0        |                   | 1.3 - 2.5         | Brown, medium                       | n fill sand                                   |                   | Fill                 |                         |
| 3                | 1             | 4.0/2.7                         |         |          |            |                   | 2.5 - 4.0         | Orange, fine to                     | medium sand, trace silts                      | s, poorly graded  | SP                   |                         |
| 4                |               |                                 |         |          |            | <u></u>           |                   |                                     |   |                   |                      | abla 4.0 ft bgs         |
|                  |               |                                 |         |          |            |                   | 4.0 - 5.3         | No recovery                         |   |                   |                      |                         |
| 5                |               |                                 |         |          | 0.0        | NOI               | 5.3 - 6.5         | Gray, medium s                      | sand, poorly graded, wet                      |                   | SP                   |                         |
| 6                | 2             | 4.0/2.3                         |         |          |            |                   | 6.5 - 8.0         | -                                   | unge, fine to mediujm sa<br>et, poorly graded | and, trace gravel | SP                   |                         |
| 8                |               |                                 |         |          |            | Sheen/Odor        |                   | Sheen/Odor obs                      | perved at -7.0                                |                   |                      |                         |
|                  |               |                                 | ļ       | <b> </b> | 0.0        | Sheen/Odor        |                   |                                     |   |                   |                      |                         |
| 9                |               |                                 |         |          | 5.5        |                   | 8.0 - 10.4        | Stained, fine sar<br>petroleum odor | nd, DNAPL present, mix                        | xea MGP and       | SP                   | Collect Sample (9-10')  |
|                  |               |                                 |         |          | 8.8        | DNAPL,            |                   | r                                   |   |                   |                      | 516008SB60110           |
| 10               |               |                                 |         |          |            | Sheen, Odor       |                   |                                     |   |                   |                      | For t(34) PAH analysis  |
| 10               |               | l                               |         |          | 8.5        |                   | 10.4 - 12.0       |                                     | organic layers present,                       |                   | SP                   | 1010                    |
|                  | 3             | 4.0/2.1                         |         |          | 9.7        |                   |                   | sand with trace                     | silt, poorly graded, sligh                    | it odor           |                      |                         |
| 11               |               |                                 |         |          | 9.8        |                   |                   |                                     |   |                   |                      |                         |
|                  |               |                                 |         |          | 7.0        |                   |                   |                                     |   |                   |                      |                         |
| 12               |               |                                 |         |          |            |                   |                   |                                     |   |                   |                      |                         |
|                  |               |                                 | ļ       | <b> </b> | 0.3        |                   |                   |                                     |   |                   |                      |                         |
| 13               |               |                                 |         |          | 3.6        | Odor, sheen       | 12 - 14.2         | Fine to medium                      | stained sand, sheen and                       | I strong MGP odor | SP                   | Collect Sample (14-15') |
| Ĺ                |               |                                 |         |          | 3.4        |                   |                   |                                     |   |                   |                      | 516008SB60115           |
|                  |               |                                 |         |          | 2.1        | $\downarrow$      | 14.2 - 16.0       | Orange, mediur                      | n sand, no odor nor shee                      | en, poorly graded | SP                   | For t(34) PAH analysis  |
| 14               |               |                                 |         |          |            | NOI               |                   |                                     |   |                   |                      | 1020                    |
|                  | 4             | 4.0/4.0                         |         |          | 0.2        |                   |                   |                                     |   |                   |                      |                         |
| 15               |               |                                 |         |          |            |                   |                   |                                     |   |                   |                      |                         |
|                  |               |                                 |         |          | 0.1        |                   |                   |                                     |   |                   |                      |                         |
| 16               |               |                                 |         |          | 0.0        |                   |                   |                                     |   |                   |                      |                         |
|                  |               |                                 |         |          |            |                   |                   |                                     |   |                   |                      |                         |
| NOT              | ES:           |                                 |         |          |            |                   |                   | Bottom of                           | Boring - 16' bgs                              |                   |                      |                         |

|                    |               |                                 |         |         |            |                   | SC                | OIL BORING                       | G LOG                          |                     |                      |                        |
|--------------------|---------------|---------------------------------|---------|---------|------------|-------------------|-------------------|----------------------------------|--------------------------------|---------------------|----------------------|------------------------|
| 2                  |               | NA                              | Δ       | (       | Т          | EC                | Project Name:     | Saranac Lak                      | e Gas Company                  |                     | Boring I             | D: SB-602              |
|                    | ■.            | TAT                             | 1       | 1       | J.L.       | LC                | Project Location: | Saranac Lake,                    | NY                             |                     | Page No              | . 1                    |
|                    | 511 C         | Congress S                      | Street, | Portla  | nd Maine ( | 04101             | Project No.: 361  | 1161193                          | Client: NYSDI                  | EC                  | O                    | f: 1                   |
| _                  |               | cation:                         |         |         |            |                   | Refusal Depth:    | NA                               | Total Depth:                   | 16' bgs             | Bore Ho              | le ID/OD: 2.25"        |
| Wea                | ther:         | Overcas                         | t, driz | zzle (3 | 35° F)     |                   | Soil Drilled:     | 16 '                             | Method: Direct l               | Push                | Casing S             | Size: 2.25"            |
| Subc               | ontra         | ctor:                           | Preci   | sion 1  | Environm   | nental            |                   |                                  | Protection Level:              | D                   | Sampler              | : Macrocore            |
| Drill              | er:           | Mike D                          | udley   |         |            |                   | Date Started:     | 3/29/2017                        | Date Completed:                | 3/29/2017           | Sampler              | ID/OD: 2.0"            |
| Rig '              | Гуре/         | Model:                          | Geo     | probe   | /Bobcat    |                   | Logged By:        | D. Farrell                       | Checked By:                    | L. Tierney          |                      |                        |
| Refe               | rence         | Elevation                       | n:      |         |            |                   | Water Level:      | ~ 4.0 ft bgs                     | Time: 1025                     |                     |                      |                        |
|                    | Samp          | le Inforn                       | natior  | ı       | Mo         | onitoring         | ]                 |                                  |                                |                     |                      |                        |
| O Depth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |         |         | PID        | Waste Encountered |                   | Sample Description               | on and Classification          | 1                   | USCS Group<br>Symbol | Remarks                |
| 0.0                |               |                                 |         |         |            |                   | 0 - 2.0           | No recovery                      |                                |                     |                      |                        |
| 1                  |               |                                 |         |         | 0.0        | NOI               |                   |                                  |                                |                     |                      |                        |
| 2                  | 1             | 4.0/2.0                         |         |         | 0.0        |                   | 2.0 - 4.0         | Brown/light bro<br>poorly graded | wn fine to medium sand         | d, trace silt, dry, | SP                   |                        |
|                    |               |                                 |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| 4                  |               |                                 |         |         |            |                   |                   | D                                |                                |                     |                      | $\sqrt{4.0}$ ft bgs    |
| 5                  |               |                                 |         |         |            |                   |                   | sand, poorly gra                 | oe of sampler has brown<br>ded | n medium to coarse  |                      |                        |
| 6                  |               |                                 |         |         | 0.0        | NOI               |                   |                                  |                                |                     | SP                   |                        |
| 7                  | 2             | 4.0/0.2                         |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| 8                  |               |                                 |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| _                  |               |                                 |         |         | 0.0        | NOI               | 8.0 - 9.0         | No recovery                      |                                |                     |                      | Collect Sample (9-10') |
| 9                  |               |                                 |         |         | 0.6        | Sheen and         | 9.0 - 9.6         | Brown, Medium                    | to coarse sand, slight M       | MGP odor/sheen      | SP                   | 516008SB60210          |
|                    |               |                                 |         |         | 2.6        | weak odor         |                   |                                  |                                |                     |                      | For t(34) PAH analysis |
| 10                 |               |                                 |         |         | 3.0        |                   | 9.6 - 12.0        | Fine to medium                   | sand, poorly graded, No        | OI                  | SP                   | 1040                   |
| 11                 | 3             | 4.0/3.0                         |         |         | 0.0        | NOI               | 9.6 - 12.0        | Time to medium                   | sand, poorly graded, 1         |                     | SP                   | 1040                   |
| $\vdash$           |               |                                 |         |         | 0.0        |                   |                   |                                  |                                |                     |                      |                        |
| 12                 |               |                                 |         |         |            | $\vee$            |                   |                                  |                                |                     |                      |                        |
| 13                 |               | ••••••                          |         |         |            | NOI               | 12.0 - 16.0       | Light brown, me                  | edium to coarse sand, po       | oorly graded        | SP                   |                        |
| 14                 |               |                                 |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| 15                 | 4             | 4.0/4.0                         |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| Ĺ                  |               |                                 |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| 16                 |               |                                 |         |         |            |                   |                   |                                  |                                |                     |                      |                        |
| NOT                | ES:           |                                 |         |         |            |                   |                   | Bottom of I                      | Boring - 16' bgs               |                     |                      |                        |

| Weather: Overcast (35° F)  Soil Drilled: 12 ' Method: Direct Push Casing S Subcontractor: Precision Environmental  Driller: Mike Dudley  Date Started: 3/29/2017 Date Completed: 3/29/2017 Sampler  Rig Type/Model: Geoprobe/Bobcat  Reference Elevation:  Sample Information  Monitoring  Sample Information  Monitoring  Sample Description and Classification  Sample Description and Classification  O-2.1 No recovery  1 4.0/1.9  A 1.0/1.9  NOI  Protection Level: D Sampler  Sampler  Checked By: L. Tierney  Water Level: ~4.0 ft bgs Time: 1100  Sample Description and Classification  O-2.1 No recovery  1 4.0/1.9  Brown, fine to medium sand, trace silt, poorly graded  SP  Soil Drilled: 12 ' Method: Direct Push  Casing S Sampler  Protection Level: D Sampler  Sampler  Sampler  Checked By: L. Tierney  Sampler  O-4.0 ft bgs Time: 1100  O-2.1 No recovery  O-2.1 No recovery  Sp  Sp  Silver  Sample Description and Classification  Fill  SP   | . 1 f: 1 le ID/OD: 2.25" Size: 2.25" : Macrocore         |
|--|--|
| Sample Information   Monitoring   Sample Information   Monitoring   August   Augus   | f: 1 le ID/OD: 2.25" Size: 2.25" : Macrocore ID/OD: 2.0" |
| Refusal Depth: NA Total Depth: 12' bgs   Bore Ho   | le ID/OD: 2.25" Size: 2.25" : Macrocore ID/OD: 2.0"      |
| Weather: Overcast (35° F) Soil Drilled: 12 ' Method: Direct Push Casing Subcontractor: Precision Environmental Protection Level: D Sampler Oriller: Mike Dudley Date Started: 3/29/2017 Date Completed: 3/29/2017 Sampler Rig Type/Model: Geoprobe/Bobcat Reference Elevation:  Sample Information Monitoring  Sample Information Monitoring  Sample Description and Classification  Sample Description and Classification  Sample Description and Classification  O - 2.1 No recovery  1 4,0/1.9  3 Provention Evel: D Sampler Checked By: L. Tierney  Sample Description and Classification  O - 2.1 No recovery  2.1 - 2.2 Organics (grass/roots), fill  Fill SP  SP  | Size: 2.25" : Macrocore ID/OD: 2.0"                      |
| Soil Drilled: 12   Method: Direct Push   Casing Statuborn  | : Macrocore<br>ID/OD: 2.0"                               |
| ubcontractor: Precision Environmental Protection Level: D Sampler Oriller: Mike Dudley Date Started: 3/29/2017 Date Completed: 3/29/2017 Sampler Started: 3/29/2017 Date Completed: 3/29/2017 Sampler Completed: 3/29/2017  | : Macrocore<br>ID/OD: 2.0"                               |
| Date Started: 3/29/2017 Date Completed: 3/29/2017 Sampler Completed: 3/29/ | ID/OD: 2.0"  |
| Tig Type/Model: Geoprobe/Bobcat Logged By: D. Farrell Checked By: L. Tierney  Water Level: ~ 4.0 ft bgs Time: 1100  Sample Information Monitoring  (\$\hat{\text{Sa}}{\text{q top}}\$)  unitarity and a part of the part o     |  |
| Sample Information Monitoring  Sample Information Monitoring  Sample Description and Classification  One of the state of t | Remarks  |
| Sample Information  Monitoring  Sample Information  Monitoring  Sample Description and Classification  Sample Description and Classification  O-2.1  No recovery  1  2  1  4.0/1.9  NOI  Pill  2.1 - 2.2  Organics (grass/roots), fill  SP  Fill  SP   | Remarks  |
| 1   0.0   NOI   0-2.1   No recovery   2.1 - 2.2   Organics (grass/roots), fill   Fill   SP   3   4.0/1.9   SP   SP   SP   SP   SP   SP   SP   S  | Remarks  |
| 1   0.0   NOI   2.1 - 2.2   Organics (grass/roots), fill   Fill   SP   SP   SP   SP   SP   SP   SP   |  |
| 2   2.1 - 2.2 Organics (grass/roots), fill   Fill   SP   SP   SP   SP   SP   SP   SP   |  |
| 2 1 4.0/1.9 2.2 - 4.0 Brown, fine to medium sand, trace silt, poorly graded SP   |  |
| 3 1 4.0/1.9  |  |
| _  |  |
|  |  |
| $^4$ $ $ $ $ $ $ $ $ $ $ $ $ $ $   | abla 4.0 ft bgs  |
| Poor recovery due to loose soils, toe of sampler has brown   | <u> </u>   |
| 5 0.0 NOI fine to medium sand, poorly graded SP  |  |
| 6 2 4.0/0.4  |  |
| 7 2 4.00.4   |  |
| 8  |  |
| 9 0.0 NOI 8.0 - 10.9 Brown fine to medium sand, poorly graded SP   |  |
|  |  |
| 3 4.0/4.0 SP   |  |
|  |  |
| 12   |  |
| Bottom of Boring - 12' bgs   |  |

|  | SOIL BORING LOG   |                           |
|--|---|---------------------------|
| <b>MACTEC</b>  | Project Name: Saranac Lake Gas Company  | Boring ID: SB-605         |
| MACIEC   | Project Location: Saranac Lake, NY  | Page No. 1                |
| 511 Congress Street, Portland Maine 04101                        | Project No.: 3611161193 Client: NYSDEC  | of: 1                     |
| Boring Location:   | Refusal Depth: 5.0' Total Depth: 5.0' bgs   | Bore Hole ID/OD: 2.25"    |
| Weather: Overcast (35° F)  | Soil Drilled: 5.0' Method: Direct Push  | Casing Size: 2.25"        |
| Subcontractor: Precision Environmental                           | Protection Level: D   | Sampler: Macrocore        |
| Driller: Mike Dudley   | Date Started: 3/29/2017 Date Completed: 3/29/2017   | Sampler ID/OD: 2.0"       |
| Rig Type/Model: Geoprobe/Bobcat                                  | Logged By: D. Farrell Checked By: L. Tierney  |                           |
| Reference Elevation:   | Water Level: NA Time: 1200  |                           |
| Sample Information Monitoring                                    |   |                           |
| Sample Number Penetration/ Recovery (feet) PID Waste Encountered | Sample Description and Classification   | USCS Group Symbol Remarks |
| 1.   | 0 - 0.2 No recovery   |                           |
| 1 0.0 NOI  | 0.2 - 3.7 Light brown medium sand with trace silts, poorly graded   | SP                        |
| 1 4.0/3.8  |   |                           |
|  |   |                           |
| 4  | 3.7 - 4.0 Black, fine sand with silt, organics mixed in, slight gasoline odor, poorly graded                      | SP                        |
| 5 2 1.0/1.0 0.0 NOI  | 4.0 - 5.0 Same as 3.7 - 4.0   | SP                        |
| Attem  | Bottom of Boring - Refusal at 5' bgs pt 2 (5 ft. to the north) encountered the same geology and Refusal at 7' bgs |                           |

SOIL BORING LOG

| 511 Congress Soring Location: /eather: Overcas abcontractor: riller: Mike D ig Type/Model: eference Elevation  | Precision Environn              | 04101                     | Project Name: Project Location: Project No.: 361 Refusal Depth: Soil Drilled: | Saranac Lake<br>Saranac Lake<br>1161193<br>4.5'<br>4.5' | , NY Client: Total Dept | NYSDI      | EC<br>4.5' bgs       | Boring II<br>Page No. | 1      |      |
|--|---------------------------------|---------------------------|---|---|-------------------------|------------|----------------------|-----------------------|--------|------|
| 511 Congress Soring Location:  /eather: Overcas abcontractor: riller: Mike D ig Type/Model: eference Elevation | t (35° F) Precision Environn    | 04101                     | Project No.: 361<br>Refusal Depth:  | 1161193<br>4.5'   | Client:<br>Total Dept   |            |                      | of:                   |        |      |
| oring Location:  Veather: Overcas  ubcontractor:  riller: Mike D  ig Type/Model:  eference Elevation           | t (35° F)<br>Precision Environn |                           | Refusal Depth:  | 4.5'  | Total Dept              |            |                      |                       | : 1    |      |
| Veather: Overcas<br>ubcontractor:<br>riller: Mike D<br>ig Type/Model:<br>eference Elevation                    | Precision Environn              | mental                    | 1   |   |                         | th:        | 4.5' bac             |                       |        |      |
| ubcontractor:<br>riller: Mike D<br>ig Type/Model:<br>eference Elevatio   | Precision Environn              | mental                    | Soil Drilled:   | 4.5'  |                         |            |                      | Bore Hole             |        | 5"   |
| riller: Mike D<br>ig Type/Model:<br>eference Elevation   |                                 | mental                    |   |   | Method:                 |            |                      | Casing Si             |        |      |
| ig Type/Model:<br>eference Elevatio  | udley                           |                           |   |   | Protection              |            | D                    | Sampler:              |        |      |
| eference Elevation   |                                 |                           | Date Started:   | 3/29/2017   | Date Com                |            | 3/29/2017            | Sampler I             | ID/OD: | 2.0" |
|  |                                 |                           | Logged By:  | D. Farrell  | Checked E               |            | L. Tierney           |                       |        |      |
|  |                                 |                           | Water Level:  | ~ 4.0 ft bgs  | Time:                   | 1250       |                      |                       |        |      |
| Sample Inform  | nation M                        | lonitoring                | 4   |   |                         |            |                      |                       |        |      |
| Sample Number Penetration/ Recovery (feet)   | OPI                             | Waste Encountered         | ,   | Sample Descripti  | ion and Class           | sification | 1                    | USCS Group<br>Symbol  | Remarl | xs   |
|  |                                 |                           | 0 - 0.8   | No recovery   |                         |            |                      |                       |        |      |
| 1  | 0.0                             | NOI                       | 0.8 - 3.3   | Brown fine to n   | nedium sand w           | ith trace  | silts, poorly graded | SP                    |        |      |
| 2 1 4.0/3.2  |                                 |                           |   |   |                         |            |                      |                       |        |      |
| 3  |                                 |                           | 3.3 - 3.5   | Brick   |                         |            |                      |                       |        |      |
| <b>⊣</b> ∣   |                                 |                           |   |   | 1 24 25                 |            | 1: 1: 1:             | SP                    |        |      |
| 4  |                                 |                           | 3.5 - 4.0   | Black, fine sand<br>gasoline odor, p                    |                         | anics mixe | ed III, Silgiit      | SF                    |        |      |
|  | 0.2                             |                           |   |   |                         |            |                      |                       |        |      |
| 5 2 0.5/0.5  | 0.2                             | Slight odor<br>(gasoline) | 4.0 - 4.5   | Same as 3.5 - 4   | .0                      |            |                      | SP                    |        |      |
|  |                                 |                           | Botto   | m of Boring - Refu                                      | sal at 5' hos           |            |                      |                       |        |      |
|  |                                 |                           |   |   |                         |            |                      |                       |        |      |

SOIL BORING LOG

NOTES:

|   | SOIL BORING LOG  |                                   |  |  |
|---|--|-----------------------------------|--|--|
| <b>MACTEC</b>                                       | Project Name: Saranac Lake Gas Company   | Boring ID: SB-606                 |  |  |
| <b>WIACIEC</b>                                      |  | Page No. 1                        |  |  |
| 511 Congress Street, Portland Maine 04101           | Project No.: 3611161193 Client: NYSDEC   | of: 1                             |  |  |
| Boring Location:                                    | Refusal Depth: 12' Total Depth: 12' bgs  | Bore Hole ID/OD: 2.25"            |  |  |
| Weather: Overcast (35° F)                           |  | Casing Size: 2.25"                |  |  |
| Subcontractor: Precision Environmental              |  | Sampler: Macrocore                |  |  |
| Oriller: Mike Dudley                                |  | Sampler ID/OD: 2.0"               |  |  |
| Rig Type/Model: Geoprobe/Bobcat                     | Logged By: D. Farrell Checked By: L. Tierney   |                                   |  |  |
| Reference Elevation:                                | Water Level: ~ 4.0 ft bgs Time: 1310   |                                   |  |  |
| Sample Information Monitoring                       |  |                                   |  |  |
| Sample Number Penetration/ Recovery (feet) PID  PID | Sample Description and Classification  | OSCS Group Remarks                |  |  |
| 1 0.0 NOI   | 0 - 1.4 No recovery  |                                   |  |  |
| 2 1 4.0/2.6   | 1.4 - 4.0 Fill materials, brown fine sands, trace silts, includes concrete and brick           | SP/Fill                           |  |  |
| 4   | 4.0 - 5.2 Loose, brown fine sand, trace silt, poorly graded NOI                                | $\sqrt{4.0}$ ft bgs               |  |  |
| 5 0.0 NOI   |  | SP                                |  |  |
| 6   | 5.2 - 6.0 Waste (unknown) encountered, includes small electrical wires, sheen and unknown odor | Collect Sample (5-6')             |  |  |
| 2 4.0/4.0 Sheen, odor                               | ·  | 516008SB60606                     |  |  |
| 7   | 6.0 - 8.0 Orange, medium to coarse sand, NOI   | SP For t(34) PAH analysis<br>1330 |  |  |
| 8   |  | 1330                              |  |  |
| 9 0.0 NOI   | 8.0 - 9.5 Dark brown/gray medium to coarse sand, trace silts                                   | SP                                |  |  |
| 10  | 9.5 - 12.0 Orange/brown, medium to coarse sand, some gravel                                    | SP                                |  |  |
| 3 4.0/4.0   |  |                                   |  |  |
|   | Bottom of Boring - 12' bgs   |                                   |  |  |
|   | Bottoin of Boring - 12 bgs   |                                   |  |  |
| NOTES:  |  | SOIL BORING LOG                   |  |  |

|                  |               |                                 |         |        |             |                          | SO                | IL BORING                             | G LOG   |                     |                      |  |
|------------------|---------------|---------------------------------|---------|--------|-------------|--------------------------|-------------------|---------------------------------------|---|---------------------|----------------------|--|
| 1                | 11            | M                               | Δ       | (      | Т           | EC                       | Project Name:     | Saranac Lak                           | e Gas Company   |                     | Boring I             |  |
|                  |               |                                 |         |        |             |                          | Project Location: | Saranac Lake,                         |   |                     | Page No              |  |
|                  |               |                                 | Street, | Portla | nd Maine    | 04101                    | Project No.: 3611 |                                       | Client: NYSDE   |                     | 0                    |  |
| _                |               | cation:                         |         |        |             |                          | Refusal Depth:    | NA                                    | Total Depth:  | 12' bgs             |                      | le ID/OD: 2.25"                        |
|                  |               | Overcas                         |         |        |             |                          | Soil Drilled:     | 12'                                   | Method: Direct I  |                     | Casing S             |  |
|                  | ontra         |                                 |         |        | Environn    | nental                   |                   |                                       | Protection Level:   | D                   | Sampler              |  |
| Drille           |               | Mike D                          |         |        | -           |                          | Date Started:     | 3/29/2017                             | Date Completed:   | 3/29/2017           | Sampler              | ID/OD: 2.0"                            |
|                  |               | Model:                          |         | probe  | e/Bobcat    |                          | Logged By:        | D. Farrell                            | Checked By:   | L. Tierney          |                      |  |
|                  |               | Elevatio                        |         |        | M           |                          | Water Level:      | ~ 4.0 ft bgs                          | Time: 1400  |                     |                      | 1                                      |
|                  | samp          | le Inforn                       | natioi  | n      | IVIO        | onitoring                | -                 |                                       |   |                     |                      |  |
| Oppth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |         |        | QIA         | Waste Encountered        | s                 | ample Descripti                       | on and Classification   | 1                   | USCS Group<br>Symbol | Remarks                                |
| 1                |               |                                 |         |        |             | NOI                      | 0 - 2.4           | No recovery                           |   |                     |                      |  |
| 2                |               |                                 |         |        | 0.0         | NOI                      | 2.4 - 3.1         | Top soil, brown                       | fine sand with organics   | (grass)             | Fill/SP              |  |
| 3                | 1             | 4.0/1.6                         |         |        | 3.4<br>4.9  | Sheen, odor,<br>staining | 3.1 - 4.0         |                                       | rials (concrete), brown a<br>n odor (potentially gasol<br>eadings |                     | Fill/SP              | Collect Sample (3-4')<br>516008SB60704 |
| 4                |               |                                 |         |        | 15.8        |                          |                   |                                       |   |                     |                      | For t(34) PAH analysis<br>1430         |
| 5                |               | •••••                           |         |        | 1060<br>160 |                          | 4.0 - 6.4         | No recovery                           |   |                     |                      |  |
|                  |               |                                 |         |        | 160         |                          |                   |                                       | 0   |                     |                      |  |
| 6                |               |                                 |         |        |             |                          | 6.4 - 6.7         | Same as 3.1 - 4.                      |   |                     | Fill/SP              |  |
| 7                | 2             | 4.0/1.6                         |         |        | 3.5         |                          | 6.7 - 8.0         | Brown, fine to r<br>slight gasoline o | nedium sand, trace grav<br>odor remains                           | el, no staining but | SP                   |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
| 8                |               |                                 |         | ļ      | 1.1         | ļ                        |                   |                                       |   |                     |                      |  |
| 9                |               |                                 |         |        | NA          | NA                       |                   | No recovery                           |   |                     |                      |  |
| 10               |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
| 11               | 3             | 4.0/0.0                         |         |        |             |                          |                   |                                       |   |                     |                      |  |
| 12               |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
| 14               |               |                                 | L       |        |             |                          |                   |                                       |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          | В                 | ottom of Boring -                     | 12' bgs   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   | _                                     |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       | -   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
| _                |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
| NOT              | ES:           |                                 |         |        |             |                          |                   |                                       |   |                     |                      |  |
|                  |               |                                 |         |        |             |                          |                   |                                       |   |                     |                      | SOIL BORING LOG                        |

|                  | SOIL BORING LOG |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
|------------------|-----------------|---------------------------------|---------|---------|----------|-------------------|-------------------|--------------------|--------------------------|----------------------|----------------------|---------------------|--|
| 1                | 10              | NA                              | Δ       | (       | Т        | EC                | Project Name:     |                    | e Gas Company            |                      | Boring II            | D: SB-608           |  |
|                  | ▋,              | IAI                             | 1       | 1       | J L      |                   | Project Location: | Saranac Lake,      | NY                       |                      | Page No.             | . 1                 |  |
|                  | 511 C           | Congress S                      | Street, | Portla  | nd Maine | 04101             | Project No.: 361  | 1161193            | Client: NYSD             |                      | of                   | f: 1                |  |
| Borii            | ng Lo           | cation:                         |         |         |          |                   | Refusal Depth:    | 15'                | Total Depth:             | 15' bgs              | Bore Hol             | le ID/OD: 2.25"     |  |
| Weat             | her:            | Overcas                         | st (35° | ° F)    |          |                   | Soil Drilled:     | 15'                | Method: Direct           | Push                 | Casing S             | ize: 2.25"          |  |
| Subc             | ontra           | ctor:                           | Preci   | ision l | Environn | nental            |                   |                    | Protection Level:        | D                    | Sampler: Macrocore   |                     |  |
| Drill            | er:             | Mike D                          | udley   |         |          |                   | Date Started:     | 4/4/2017           | Date Completed:          | 4/4/2017             | Sampler              | ID/OD: 2.0"         |  |
| Rig 7            | Гуре/]          | Model:                          | Geo     | probe   | /Bobcat  |                   | Logged By:        | D. Farrell         | Checked By:              | L. Tierney           |                      |                     |  |
| Refe             | rence           | Elevation                       | n:      |         |          |                   | Water Level:      | ~ 4.5 ft bgs       | Time: 830                |                      |                      |                     |  |
|                  | Samp            | le Inform                       | natior  | ı       | Mo       | onitoring         |                   |                    |                          |                      |                      |                     |  |
| Oepth (feet bgs) | Sample Number   | Penetration/<br>Recovery (feet) |         |         | PID      | Waste Encountered | :                 | Sample Description | on and Classification    | 1                    | USCS Group<br>Symbol | Remarks             |  |
|                  |                 |                                 |         |         |          |                   | 0 - 1.0           | No recovery        |                          |                      |                      |                     |  |
| 1                |                 |                                 |         |         | 0.0      | NOI               |                   |                    |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         |          |                   | 1.0 - 2.1         | Brown, fine to n   | nedium sand (topsoil fi  | 11)                  | Fill                 |                     |  |
| 2                |                 |                                 |         |         | 0.0      |                   |                   |                    |                          |                      | 1111                 |                     |  |
| _                | 1               | 4.0/3.0                         |         |         | 0.0      | ,                 | 21.40             | Ct - : 1/l         | 4:                       |                      |                      |                     |  |
| 3                |                 |                                 |         |         |          | Odor, stain,      | 2.1 - 4.0         | (gasoline) odor    | nedium sand, damp, ve    | ery strong petroleum | SP                   |                     |  |
|                  |                 |                                 |         |         | 120      | sheen             |                   | (8)                |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         | 330      |                   |                   |                    |                          |                      |                      |                     |  |
| 4                |                 |                                 |         |         | 111      |                   |                   |                    |                          |                      |                      | $\nabla$ 4.5 ft bgs |  |
|                  |                 |                                 |         |         | 350      |                   | 4.0 - 5.1         | No recovery, loc   | se wet sands fall out of | f macrocore          |                      | <u> </u>            |  |
| 5                |                 |                                 |         |         | 52.2     |                   | 5.1 - 8.0         | Stained medium     | to coarse sand, trace s  | ilt, appears to be   | SP                   |                     |  |
|                  |                 |                                 |         |         |          |                   |                   |                    | cts with depth starting  |                      | 31                   |                     |  |
| 6                |                 |                                 |         |         | 25.7     |                   |                   |                    |                          |                      |                      |                     |  |
|                  | 2               | 4.0/2.9                         |         |         | 10.6     |                   |                   |                    |                          |                      |                      |                     |  |
| 7                |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
| <i>'</i>         |                 |                                 |         |         | 8.2      |                   |                   |                    |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
| 8                |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         | 15.3     |                   | 8.0 - 12.0        | Likely cave-in fi  | om above (driller's rem  | nark: cave-in at 6'  |                      |                     |  |
| 9                |                 |                                 |         |         |          | 04                | 0.0 - 12.0        |                    | y medium sand with tra   | ace silt, slight     |                      |                     |  |
|                  |                 |                                 |         |         | 0.0      | Odor              |                   | gasoline odor      |                          |                      |                      |                     |  |
| 10               |                 |                                 |         |         | 14.7     |                   |                   |                    |                          |                      | SP                   |                     |  |
|                  | 3               | 4.0/3.9                         |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
| 11               |                 |                                 |         |         | 10.1     |                   |                   |                    |                          |                      |                      |                     |  |
| 11               |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         | 0.2      |                   |                   |                    |                          |                      |                      |                     |  |
| 12               |                 |                                 |         |         |          | $\downarrow$      |                   |                    |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         |          | ļ                 | 12.0 - 15.0       | Likely cave-in fr  | om above, brown/gray     | medium sand with     | SP                   |                     |  |
| 13               |                 |                                 |         |         | 4.1      | 0.1               |                   | trace silt, slight | gasoline odor, almost n  |                      | 51                   |                     |  |
|                  |                 |                                 |         |         | 4.1      | Odor              |                   | bgs (PID=0.1)      |                          |                      |                      |                     |  |
| 14               |                 |                                 |         |         | 0.3      |                   |                   |                    |                          |                      |                      |                     |  |
|                  | 4               | 3.0/3.0                         |         |         | 0.1      |                   |                   |                    |                          |                      |                      |                     |  |
| 15               | ,               | 5.0/5.0                         |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
| 15               |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
|                  |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
| 16               |                 |                                 |         |         |          |                   |                   |                    |                          |                      |                      |                     |  |
| NOT              | ES.             |                                 |         |         | l        |                   | l                 |                    |                          |                      |                      |                     |  |

NOTES:

|                  |               |                                 |          |        |          |                   | S0                | IL BORING          | G LOG  |                   |                      |                     |  |
|------------------|---------------|---------------------------------|----------|--------|----------|-------------------|-------------------|--------------------|--|-------------------|----------------------|---------------------|--|
| 1                | 11            | 1/1                             | Δ        | (      | Т        | EC                | Project Name:     | Saranac Lak        | e Gas Company                                    |                   | Boring II            | D: SB-609           |  |
|                  |               | TAT                             | 1        | 1      | L        |                   | Project Location: | Saranac Lake,      | NY   |                   | Page No.             | . 1                 |  |
|                  | 511 C         | Congress S                      | Street,  | Portla | nd Maine | 04101             | Project No.: 361  | 1161193            | Client: NYSDE                                    | EC                | of                   |                     |  |
| Borin            | ıg Lo         | cation:                         |          |        |          |                   | Refusal Depth:    | NA                 | Total Depth:                                     | 12' bgs           | Bore Hol             | le ID/OD: 2.25"     |  |
| Weat             | her:          | Overcas                         | st (35°  | ° F)   |          |                   | Soil Drilled:     | 12 '               | Method: Direct I                                 | Push              | Casing S             | lize: 2.25"         |  |
| Subc             | ontra         | ctor:                           | Preci    | sion 1 | Environn | nental            |                   |                    | Protection Level:                                | D                 | Sampler: Macrocore   |                     |  |
| Drille           | er:           | Mike D                          | udley    |        |          |                   | Date Started:     | 4/4/2017           | Date Completed:                                  | 4/4/2017          | Sampler              | ID/OD: 2.0"         |  |
| Rig T            | ype/.         | Model:                          | Geo      | probe  | /Bobcat  |                   | Logged By:        | D. Farrell         | Checked By:                                      | L. Tierney        |                      |                     |  |
| Refer            | ence          | Elevation                       | on:      |        |          |                   | Water Level:      | ~ 4.5 ft bgs       | Time: 900  |                   |                      |                     |  |
| 5                | Samp          | le Infort                       | nation   | 1      | M        | onitoring         |                   |                    |  |                   |                      |                     |  |
| Oppth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |          |        | ША       | Waste Encountered | :                 |                    | on and Classification                            | ı                 | USCS Group<br>Symbol | Remarks             |  |
|                  |               |                                 |          |        |          |                   | 0 - 0.2           | No recovery        |  |                   |                      |                     |  |
| 1                |               |                                 |          |        | 0.0      | NOI               | 0.2 - 2.6         | Brown, fine to n   | nedium sand, trace silt                          |                   | SP                   |                     |  |
| $\dashv$         |               |                                 |          |        | 0.6      |                   | 1                 |                    |  |                   |                      |                     |  |
| 2                |               |                                 |          |        | 76       |                   | 1                 |                    |  |                   |                      |                     |  |
| $\dashv$         | 1             | 4.0/3.8                         |          |        |          | Strong            | 2.6 - 4.0         | Dark oray ctain    | ed, medium sand, strong                          | g gasoline odor   | SP                   |                     |  |
| 3                |               |                                 |          |        | 455      | gasoline odor,    | 2.0 4.0           | Dark gray, stam    | ed, medium sand, sirong                          | g gasonne odor    | 51                   |                     |  |
|                  |               |                                 |          |        | 932      | stained soil,     |                   |                    |  |                   |                      |                     |  |
| 4                |               |                                 |          |        | 318      | sheen             |                   |                    |  |                   |                      | $\nabla$ 4.5 ft bgs |  |
|                  |               |                                 | <b>!</b> |        |          |                   | 4.0 - 8.0         | Dark gray, stain   | ed, medium sand, strong                          | g gasoline odor   | SP                   |                     |  |
| 5                |               |                                 |          |        | 157      |                   |                   |                    |  |                   |                      |                     |  |
| $\dashv$         |               |                                 |          |        | 760      |                   |                   |                    |  |                   |                      |                     |  |
| 6                |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
| _                | 2             | 4.0/4.0                         |          |        | 748      |                   |                   |                    |  |                   |                      |                     |  |
| 7                |               |                                 |          |        | 639      |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
| 0                |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
| 8                |               |                                 |          |        |          | <b>↓</b>          |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 | t        |        |          |                   | 8.0 - 12.0        | Poor recovery d    | ue to broken macrocore                           | sleeve, we hammer | SP                   |                     |  |
| 9                |               |                                 |          |        |          | Odor              |                   |                    | of core and observe sim                          |                   |                      |                     |  |
|                  |               |                                 |          |        |          | Odol              |                   |                    | seen 4.0 - 8.0' bgs. Toe<br>brown/gray medium sa | *                 |                      |                     |  |
| 10               |               |                                 |          |        |          |                   |                   | ppin and is right  | brown/gray medium sa                             | iliu              |                      |                     |  |
| _                | 3             | 4.0/4.0                         |          |        |          |                   | 1                 |                    |  |                   |                      |                     |  |
| 11               | -             |                                 |          |        |          |                   | 1                 |                    |  |                   |                      |                     |  |
| * 1              |               |                                 |          |        | 6.0      |                   | 1                 |                    |  |                   |                      |                     |  |
| 1.5              |               |                                 |          |        |          |                   | 1                 |                    |  |                   |                      |                     |  |
| 12               |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
| _                |               |                                 |          |        |          | 1                 | I                 | Bottom of Boring - | 12' bgs  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
| TO               | ES:           |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  | _             |                                 |          |        |          |                   |                   |                    |  |                   |                      |                     |  |
|                  |               |                                 |          |        |          |                   |                   |                    |  |                   |                      | SOIL BORING LOC     |  |

| SOIL BORING LOG  |                           |                    |                         |            |                      |                 |  |  |  |  |  |
|--|---------------------------|--------------------|-------------------------|------------|----------------------|-----------------|--|--|--|--|--|
| <b>MACTEC</b>  | Project Name:             |                    | e Gas Company           |            | Boring II            | D: SB-610       |  |  |  |  |  |
| <b>MIACIEC</b>   | Project Location: Sa      | aranac Lake,       | NY                      |            | Page No.             | . 1             |  |  |  |  |  |
| 511 Congress Street, Portland Maine 04101                        | Project No.: 3611161      | 193                | Client: NYSDE           | EC         | of                   | f: 1            |  |  |  |  |  |
| Boring Location:   | Refusal Depth: 10         | )'                 | Total Depth:            | 10' bgs    | Bore Hol             | le ID/OD: 2.25" |  |  |  |  |  |
| Weather: Overcast (35° F)  | Soil Drilled: 10          | )'                 | Method: Direct P        | Push       | Casing S             | lize: 2.25"     |  |  |  |  |  |
| Subcontractor: Precision Environmental                           |                           |                    | Protection Level:       | D          | Sampler:             | Macrocore       |  |  |  |  |  |
| Driller: Mike Dudley   | Date Started: 4/-         | 4/2017             | Date Completed:         | 4/4/2017   | Sampler              | ID/OD: 2.0"     |  |  |  |  |  |
| Rig Type/Model: Geoprobe/Bobcat                                  | Logged By: D.             | . Farrell          | Checked By:             | L. Tierney |                      |                 |  |  |  |  |  |
| Reference Elevation:   | Water Level: ~            | 4.5 ft bgs         | Time: 930               |            |                      |                 |  |  |  |  |  |
| Sample Information Monitoring                                    |                           |                    |                         |            |                      |                 |  |  |  |  |  |
| Sample Number Penetration/ Recovery (feet) PID Waste Encountered | Samp                      | ole Descriptio     | on and Classification   |            | USCS Group<br>Symbol | Remarks         |  |  |  |  |  |
|  | 0 - 0.8 No                | o recovery         |                         |            |                      |                 |  |  |  |  |  |
| 1 0.0 NOI  | 0.8 - 1.3 Br              | rown fine fill/to  | opsoil                  |            | Fill                 |                 |  |  |  |  |  |
|  | 0.3 - 2.3 Li <sub>2</sub> | ght brown med      | dium sand, trace silt   |            | SP                   |                 |  |  |  |  |  |
| 2  |                           |                    | •                       |            |                      |                 |  |  |  |  |  |
| 1 4.0/3.2  | 2.3 - 4.0 Da              | oult huorring fine | e to medium sand, trace | oilt.      |                      |                 |  |  |  |  |  |
| 3  | 2.3 - 4.0 Da              | ark brown, fine    | e to medium sand, trace | SIIt       |                      |                 |  |  |  |  |  |
| 4  |                           |                    |                         |            |                      | abla 4.5 ft bgs |  |  |  |  |  |
|  | 4.0 - 4.6 No              | o recovery         |                         |            |                      |                 |  |  |  |  |  |
| 5 0.0 NOI  | 4.6 - 5.6 Da              | ark brown, fine    | e to medium sand, trace | silt       | SP                   |                 |  |  |  |  |  |
| 2 4.0/3.4  | 5.6 - 8.0 Li <sub>2</sub> | ght brown, fin     | e sand with trace silt  |            |                      |                 |  |  |  |  |  |
| 7  |                           |                    |                         |            |                      |                 |  |  |  |  |  |
| 8  |                           |                    |                         |            |                      |                 |  |  |  |  |  |
|  | 8.0 - 8.2 Gr              | ray medium sa      | nd                      |            | SP                   |                 |  |  |  |  |  |
| 0.0 NOI  | 8.2 - 9.0 Lo              | oose brown san     | nds                     |            |                      |                 |  |  |  |  |  |
| 3 2.0/2.0  | 9.0 - 10.0 Gr             | ray, medium sa     | and with trace silts    |            |                      |                 |  |  |  |  |  |
|  |                           |                    |                         |            |                      |                 |  |  |  |  |  |
|  | Bottom of E               | Soring - Refuse    | al at 10' bgs           |            |                      |                 |  |  |  |  |  |
| NOTES:   |                           |                    |                         |            |                      | SOIL BORING LOG |  |  |  |  |  |

|  |                                       | SO                     | IL BORING                | G LOG                          |                  |                      |   |  |
|--|---------------------------------------|------------------------|--------------------------|--------------------------------|------------------|----------------------|---|--|
| <b>Ж</b> МД ДО                             | CTEC                                  | Project Name:          |                          | e Gas Company                  |                  | Boring I             | D: SB-611   |  |
| TATY I                                     |                                       |                        | Saranac Lake             |                                |                  | Page No              | ). 1  |  |
| 511 Congress Street, Por                   | tland Maine 04101                     | Project No.: 361       |                          | Client: NYSDEC                 |                  | 0                    |   |  |
| Boring Location:                           |                                       | Refusal Depth:         | 10'                      |                                | 10' bgs          | -                    | ole ID/OD: 2.25"  |  |
| Weather: Overcast (35° F)                  |                                       | Soil Drilled:          | 10'                      | Method: Direct Pu              |                  | Casing S             |   |  |
|  | n Environmental                       |                        |                          |                                | D                | Sampler<br>Sampler   |   |  |
| Driller: Mike Dudley                       | 1                                     |                        |                          |                                |                  |                      |   |  |
| Rig Type/Model: Geopro                     | be/Bobcat                             | Logged By:             | D. Farrell               |                                | L. Tierney       |                      |   |  |
| Reference Elevation:                       | 1 20 1                                | Water Level:           | ~ 4.0 ft bgs             | Time: 1000                     |                  |                      | 1   |  |
| Sample Information                         | Monitoring                            | 4                      |                          |                                |                  |                      |   |  |
| Sample Number Penetration/ Recovery (feet) | PID Waste Encountered                 |                        | Sample Descripti         | on and Classification          |                  | USCS Group<br>Symbol | Remarks   |  |
| 1  | 0.0 NOI                               | 0 - 2.0                | Light brown, to          | psoil/fill, medium sand w      | ith trace gravel | Fill                 |   |  |
| 2 1 4.0/4.0                                |                                       | 2.0 - 3.5              | Dark gray/brow           | n, stained medium sand, j      | petroleum odor   | SP                   |   |  |
| 3 4.0/4.0                                  | Strong odor<br>sheen, staine<br>soils | d                      |                          |                                |                  |                      |   |  |
| 4  | 562                                   | 3.5 - 3.8<br>3.8 - 4.0 | Concrete Same as 2.0 - 3 | 5                              |                  |                      |   |  |
|  | 999                                   | 4.0 - 7.5              |                          | impacted medium sand,          | strong odor      |                      | $\sqrt{4.0}$ ft bgs   |  |
| 6 2 4.0/3.4                                | 1350                                  |                        | sheen                    | ,                              | ,                | SP                   | Collect Sample (4-5') 516008SB61105 For t(34) PAH analysis 1010 |  |
| 8  | 1200<br>900<br>833                    | or 7.5 - 8.0           | Brown, mediun            | n sand, trace silt, less stain | ning             | SP                   |   |  |
| 9  | 238 Odor                              | 8.0 - 10               | Same as 7.5 - 8          | .0                             |                  | SP                   |   |  |
| 3 2.0/2.0                                  | 14.7                                  |                        |                          |                                |                  |                      |   |  |
|  |                                       | Botton                 | m of Boring - Refu       | sal at 10' bgs                 |                  | _                    |   |  |
|  |                                       |                        |                          |                                |                  |                      |   |  |
| NOTES:                                     |                                       |                        |                          |                                |                  |                      | SOIL BORING LOG   |  |

|                                |   |                 |                   | SO                | IL BORING           | GLOG                      |                    |                      |                     |
|--------------------------------|---|-----------------|-------------------|-------------------|---------------------|---------------------------|--------------------|----------------------|---------------------|
| 211                            | VΙΔ   | CT              | $\mathbf{F}C$     | Project Name:     |                     | e Gas Company             |                    | Boring ID            | SB-612              |
|                                | VII   | CI              | LC                | Project Location: | Saranac Lake,       |                           |                    | Page No.             | 1                   |
| 511 Cor                        | ngress Street, P  | ortland Maine ( | 04101             | Project No.: 361  | 1161193             | Client: NYSDE             | EC                 | of:                  |                     |
| Boring Loca                    | ation:  |                 |                   | Refusal Depth:    | 10'                 | Total Depth:              | 10' bgs            | Bore Hole            | e ID/OD: 2.25"      |
| Weather: O                     | Overcast (35°   | F)              |                   | Soil Drilled:     | 10'                 | Method: Direct I          | Push               | Casing Siz           | ze: 2.25"           |
| Subcontracto                   | or: Precis  | ion Environm    | ental             |                   |                     | Protection Level:         | D                  | Sampler:             | Macrocore           |
| Driller: M                     | Mike Dudley Date Started: 4/4/2017 Date Completed: 4/4/2017 |                 |                   |                   |                     |                           |                    | Sampler I            | D/OD: 2.0"          |
| Rig Type/Me                    | lodel: Geop   | robe/Bobcat     |                   | Logged By:        | D. Farrell          | Checked By:               | L. Tierney         |                      |                     |
| Reference E                    | llevation:  |                 |                   | Water Level:      | ~ 4.5 ft bgs        | Time: 1050                |                    |                      |                     |
| Sample                         | Information   | Mo              | onitoring         |                   |                     |                           |                    |                      |                     |
| Oppth (feet bgs) Sample Number | Penetration/<br>Recovery (feet)                             | PID             | Waste Encountered | S                 | Sample Descripti    | on and Classification     | ı                  | USCS Group<br>Symbol | Remarks             |
|                                |   | 0.0             |                   | 0 - 0.2           | No recovery         |                           |                    |                      |                     |
| 1                              |   | 0.0             | NOI               | 0.2 - 2.0         | Light brown, me     | edium sand with trace si  | ilts, topsoil/fill | Fill/SP              |                     |
| $\vdash \vdash \vdash$         |   | 0.0             |                   |                   |                     |                           |                    |                      |                     |
| 2                              |   | 0.1             |                   | 2.0 - 3.6         | Dark brown me       | edium sand with some g    | ravel and brick    | SP                   |                     |
| 1 4                            | 4.0/3.8   | 0.1             | \ \frac{\psi}{2}  | 2.0 - 3.0         | Dark DiOWII, IIIt   | and with some g           | raver and DHCK     | 51                   |                     |
| 3                              |   | 3.5             | Odor              |                   |                     |                           |                    |                      |                     |
|                                |   |                 |                   |                   |                     |                           |                    |                      |                     |
| 4                              |   | 4.6             |                   | 3.6 - 4.0         | Dark brown, me      | edium sand, slight petrol | leum odor          | SP                   | $\nabla$ 4.5 ft bgs |
| <del></del>                    |   | 1.7             |                   | 4.0 - 4.5         | No recovery         |                           |                    | 1                    | <u> </u>            |
| 5                              |   |                 |                   | 4.5 - 8.0         | Dark brown/gra      | y, medium sand with tra   | ace silts some     | CD                   |                     |
| _                              |   |                 |                   | 1.5 0.0           | wood fragments      |                           | ace sitts, some    | SP                   |                     |
| 6                              |   | 0.4             |                   |                   |                     |                           |                    |                      |                     |
|                                | 4.0/3.5   |                 | $\vee$            |                   |                     |                           |                    |                      |                     |
|                                | +.0/3.3   | 0.0             | NOI               |                   |                     |                           |                    |                      |                     |
| 7                              |   |                 |                   |                   |                     |                           |                    |                      |                     |
| 8                              |   | 0.0             |                   |                   |                     |                           |                    |                      |                     |
| <del></del>                    |   |                 |                   |                   |                     | y, fine to medium sand    |                    |                      |                     |
| 9                              |   | 0.0             |                   | 8.0 - 10.0        |                     | rved in coarser sand at 9 |                    | SP                   |                     |
| 3 2                            | 2.0/2.0   |                 |                   |                   | -                   |                           |                    |                      |                     |
|                                |   | 0.0             | $\downarrow$      |                   |                     |                           |                    |                      |                     |
| 10                             |   |                 | Slight odor       |                   |                     |                           |                    |                      |                     |
|                                |   | •               |                   | Botton            | n of Boring - Refus | al at 10' bgs             |                    |                      |                     |
|                                |   |                 |                   |                   |                     |                           |                    |                      |                     |
| NOTES:                         |   |                 |                   |                   |                     |                           |                    |                      | SOIL BORING LOG     |

| 211      | 77        | T A           |           |           |                   | Project Name:     | Sarango I al     | e Gas Company       | ,         |                  | Boring ID            | : SB-613            |
|----------|-----------|---------------|-----------|-----------|-------------------|-------------------|------------------|---------------------|-----------|------------------|----------------------|---------------------|
|          | IV        | $\mathbf{L}A$ | L         | L         | EC                | Project Location: |                  |                     | V         |                  | Page No.             | 1                   |
| 51       |           |               |           | d Maine ( |                   | Project No.: 36   |                  |                     | SDEC      | 7                | of:                  |                     |
|          | Location  |               | - 0111111 | u mumo (  | , 1101            | Refusal Depth:    | NA               | Total Depth:        |           | 12' bgs          | Bore Hole            |                     |
|          | r: Over   |               | ° F)      |           |                   | Soil Drilled:     | 12 '             |                     | rect Pu   |                  | Casing Siz           |                     |
|          | tractor:  |               |           | nvironm   | ental             | Boll Billied.     | 12               | Protection Lev      |           | D                | Sampler:             | Macrocore Macrocore |
| Driller: |           | Dudley        |           |           |                   | Date Started:     | 4/4/2017         | Date Complete       |           | 4/4/2017         | Sampler I            |                     |
|          | pe/Mode   |               |           | Bohcat    |                   | Logged By:        | D. Farrell       | Checked By:         |           | L. Tierney       | Jumpier              | 2.0                 |
|          | ice Eleva |               | proce     | Bootat    |                   | Water Level:      | ~ 4.0 ft bgs     | Time: 11            |           | z. Hemey         | †                    |                     |
|          | mple Inf  |               | 1         | Mo        | nitoring          | Water Beven       | no it ogs        | 111101              |           |                  | 1 1                  |                     |
|          |           |               |           | PID       | Waste Encountered |                   | Sample Descripti | on and Classifica   | ation     |                  | USCS Group<br>Symbol | Remarks             |
| 7.0      |           |               |           |           |                   | 0 - 1.9           | No recovery      |                     |           |                  | + +                  |                     |
| 2        |           |               |           | 0.0       | NOI               | 1.9 - 4.0         |                  | sand with trace gra | avel, wo  | ood and brick    | SP                   |                     |
| 3        | 1 4.0/2   | .1            |           |           |                   |                   |                  |                     |           |                  |                      |                     |
| 4        |           |               |           |           | $\downarrow$      |                   |                  |                     |           |                  |                      | V 4061              |
|          |           |               |           |           |                   | 4.0 - 4.6         | No recovery      |                     |           |                  | -                    | $\sqrt{4.0}$ ft bgs |
| 5        |           |               |           | 0.0       | NOI               | 4.6 - 6.7         | •                | nedium sand, trace  | silts     |                  | SP                   |                     |
| 6        | 2 4 0 //  |               |           |           |                   |                   |                  |                     |           |                  |                      |                     |
| 7        | 2   4.0/3 | .4            |           |           |                   | 6.7 - 8.0         | Brown medium     | sand, some organi   | cs, trace | e silts          | SP                   |                     |
| 8        |           |               |           |           | $\downarrow$      |                   |                  |                     |           |                  |                      |                     |
| <u> </u> |           |               | -         |           |                   |                   | Prown modium     |                     |           |                  | .  [                 |                     |
| 9        |           |               |           |           |                   | 8.0 - 10.2        | Diowii inedium   | sand, trace silts   |           |                  | SP                   |                     |
|          |           |               |           | 0.0       | NOI               |                   |                  |                     |           |                  |                      |                     |
| 10       |           |               |           |           |                   | 10.2 - 12.0       | Gray medium to   | o coarse sand, no o | dor, slig | ght PID response | SP                   |                     |
| $\dashv$ | 3 4.0/4   | .0            |           | 0.0       |                   |                   |                  |                     |           |                  |                      |                     |
| 11       |           |               |           |           |                   |                   |                  |                     |           |                  |                      |                     |
| _        |           |               |           | 0.4       |                   |                   |                  |                     |           |                  |                      |                     |
| 12       |           |               |           | 0.5       |                   |                   |                  |                     |           |                  |                      |                     |
| -        |           |               |           | 0.0       | $\downarrow$      |                   |                  |                     |           |                  |                      |                     |

|               |               |                                 |         |         |            |                   | SO                     | IL BORING          | G LOG   |                       |                      |                      |  |
|---------------|---------------|---------------------------------|---------|---------|------------|-------------------|------------------------|--------------------|---|-----------------------|----------------------|----------------------|--|
| 211           | 1             | NΛ                              | Λ       | -       | بلد        | EC                | Project Name:          | Saranac Lak        | te Gas Company  |                       | Boring II            | D: SB-614            |  |
|               | -             | LAT                             |         | 1       | JL.        | LC                | Project Location:      | Saranac Lake       | , NY  |                       | Page No.             | . 1                  |  |
| 51            | 11 C          | ongress S                       | Street, | Portlar | nd Maine ( | 04101             | Project No.: 361       | 1161193            | Client: NYSD  | EC                    | of                   | i: 1                 |  |
| oring         | Loc           | cation:                         |         |         |            |                   | Refusal Depth:         | NA                 | Total Depth:  | 12' bgs               | Bore Hol             | le ID/OD: 2.25"      |  |
|               |               | Overcas                         | t (35°  | ° F)    |            |                   | Soil Drilled:          | 12 '               | Method: Direct  |                       | Casing Size: 2.25"   |                      |  |
| ubcon         |               |                                 |         |         | Environm   | ental             |                        |                    | Protection Level:                                       | D                     | Sampler:             |                      |  |
| riller:       |               | Mike D                          |         |         |            |                   | Date Started:          | 4/4/2017           | Date Completed:   | 4/4/2017              | Sampler              |                      |  |
|               |               |                                 |         |         | /Bobcat    |                   | Logged By:             | D. Farrell         | Checked By:   | L. Tierney            | 1                    |                      |  |
|               | _             | Elevatio                        |         | F       |            |                   | Water Level:           | ~ 4.0 ft bgs       | Time: 1135  |                       |                      |                      |  |
|               |               | le Inforn                       |         | ,       | Mo         | nitoring          | Water Bover            | 11 0 65            | 11110   |                       |                      |                      |  |
| <u> </u>      | Ť             | ic inform                       | natioi  |         | 1110       |                   | -                      |                    |   |                       |                      |                      |  |
| Cample Number | Sample Number | Penetration/<br>Recovery (feet) |         |         | OII        | Waste Encountered | S                      | Sample Descript    | ion and Classification                                  | 1                     | USCS Group<br>Symbol | Remarks              |  |
| $\top$        | $\Box$        |                                 |         |         |            |                   | 0 - 2.0                | No recovery        |   |                       |                      |                      |  |
| 1             |               |                                 |         |         | 0.0        | NOI               |                        |                    |   |                       |                      |                      |  |
|               | 1             | 4.0/2.0                         |         |         | 0.0        |                   | 2.0 - 2.2<br>2.2 - 2.6 | Brown, medium      | n sand (topsoil/fill)                                   |                       | SP/Fill<br>Fill      |                      |  |
| 3             |               |                                 |         |         | 1.1        |                   | 2.6 - 4.0              | Light brown me     | edium sand with fill mat                                | erials (metal, brick, | SP/Fill              |                      |  |
| -             |               |                                 |         |         | 0.9        |                   |                        | stone), no odor    | but slight PID response                                 |                       |                      |                      |  |
| 4             |               |                                 |         |         |            | $\downarrow$      |                        |                    |   |                       |                      |                      |  |
| <b>—</b>      |               |                                 | ļ       |         | 0.6        |                   |                        |                    |   |                       |                      | $\sqrt{}$ 4.0 ft bgs |  |
| 5             |               |                                 |         |         | 0.4        |                   |                        |                    | very, toe of sampler reve<br>race silts, trace organics |                       | SP                   |                      |  |
|               |               |                                 |         |         | 0.0        | NOI               |                        | medium sand, t     | race sitts, trace organics                              |                       |                      |                      |  |
| 6             | 2             | 4.0/0.9                         |         |         | 0.0        |                   |                        |                    |   |                       |                      |                      |  |
| 7             |               |                                 |         |         | 0.0        |                   |                        |                    |   |                       |                      |                      |  |
| 8             |               |                                 |         |         | 0.0        |                   |                        |                    |   |                       |                      |                      |  |
| 9             |               |                                 |         |         |            | •••••             | 8.0 - 11.8             | Brown, fine to     | medium sand, trace silts                                |                       | SP                   |                      |  |
| ´             |               |                                 |         |         | 0.0        | NOI               |                        |                    |   |                       |                      |                      |  |
| $\neg$        |               |                                 |         |         |            |                   |                        |                    |   |                       |                      |                      |  |
| 0             |               |                                 |         |         |            |                   |                        |                    |   |                       |                      |                      |  |
| <b>—</b> 3    | 3             | 4.0/4.0                         |         |         | 0.0        |                   |                        |                    |   |                       |                      |                      |  |
| 11            |               |                                 |         |         | 0.0        |                   |                        |                    |   |                       |                      |                      |  |
|               |               |                                 |         |         |            |                   |                        |                    |   |                       |                      |                      |  |
| 12            |               |                                 |         |         |            |                   | 11.8 - 12.0            | Dark gray, med     | lium sand   |                       | SP                   |                      |  |
|               |               |                                 |         |         |            |                   | E                      | Bottom of Boring - | 12' bgs   |                       |                      |                      |  |
|               |               |                                 |         |         |            |                   |                        |                    |   |                       |                      |                      |  |

|                  |               |                                 |                |         |           |                   | SC               | OIL BORING         | G LOG   |                       |                      |                     |
|------------------|---------------|---------------------------------|----------------|---------|-----------|-------------------|------------------|--------------------|---|-----------------------|----------------------|---------------------|
| 1                | 107           | <b>λ</b> /Ι                     | Λ              | (       | ידיר      | EC                | Project Name:    |                    | e Gas Company                                     |                       | Boring II            | D: SB-615           |
|                  | 4             | IAT                             | $\Gamma$       | 76      | L         | LU                | Project Location | : Saranac Lake     | , NY  |                       | Page No.             | 1                   |
|                  | 511 (         | Congress S                      | Street,        | Portla  | nd Maine  | 04101             | Project No.: 36  | 11161193           | Client: NYSDI                                     | EC                    | of                   | : 1                 |
|                  |               | cation:                         |                |         |           |                   | Refusal Depth:   | NA                 | Total Depth:                                      | 12' bgs               | Bore Hole            | e ID/OD: 2.25"      |
|                  | _             | Overcas                         | st (35         | ° F)    |           |                   | Soil Drilled:    | 12 '               | Method: Direct                                    |                       | Casing Si            |                     |
|                  | ontra         |                                 |                |         | Environn  | nental            |                  |                    | Protection Level:                                 | D                     | Sampler:             |                     |
| Drill            |               | Mike D                          |                |         |           |                   | Date Started:    | 4/4/2017           | Date Completed:                                   | 4/4/2017              | Sampler l            |                     |
|                  |               | Model:                          |                |         | e/Bobcat  |                   | Logged By:       | D. Farrell         | Checked By:                                       | L. Tierney            | Jumprer              | 2.0                 |
|                  |               | Elevation                       |                | ргооч   | 2, Boocut |                   | Water Level:     | ~ 4.0 ft bgs       | Time: 1210  | L. Hemey              |                      |                     |
|                  |               | ole Inform                      |                | n       | Mo        | onitoring         | water Level.     | 4.0 11 0g3         | Time. 1210  |                       |                      |                     |
| _                |               |                                 | natio          |         | 1410      |                   | -                |                    |   |                       |                      |                     |
| Depth (feet bgs) | Sample Number | Penetration/<br>Recovery (feet) |                |         | PID       | Waste Encountered |                  | Sample Descript    | ion and Classificatior                            | 1                     | USCS Group<br>Symbol | Remarks             |
|                  |               |                                 |                |         |           |                   | 0 - 0.8          | No recovery        |   |                       |                      |                     |
| 1                |               |                                 | 1              |         | 0.0       | NOI               | 0.8 - 4.0        | Brown/light bro    | own, medium to coarse s                           | sand with trace silts | SP/Fill              |                     |
| 2                |               |                                 |                |         | 0.0       |                   |                  | and some fill de   | ebris (ash, brick, gravel)                        |                       |                      |                     |
|                  | 1             | 4.0/3.2                         |                |         |           |                   |                  |                    |   |                       |                      |                     |
| 3                |               |                                 | 1              |         |           |                   |                  |                    |   |                       |                      |                     |
|                  |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
| 4                |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
|                  |               |                                 | ļ              | ļ       |           |                   |                  |                    |   |                       |                      | $\nabla$ 4.0 ft bgs |
| 5                |               |                                 |                |         | 0.0       | NOI               |                  | sampler is a bro   | what does get hammered<br>own, fine to medium san |                       | CD.                  |                     |
|                  |               |                                 |                |         | 0.0       | 1101              |                  | materials as abo   | ove   |                       | SP                   |                     |
| 6                |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
|                  | 2             | 4.0/1.2                         |                |         |           |                   |                  |                    |   |                       |                      |                     |
| 7                |               | ,                               |                |         |           |                   |                  |                    |   |                       |                      |                     |
|                  |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
| 8                |               |                                 |                |         |           | $\downarrow$      |                  |                    |   |                       |                      |                     |
|                  |               |                                 | <del> </del> - | <b></b> |           |                   | 8.0 - 8.9        | Coarse fill mate   | erial, likely cave in from                        | above                 | SP                   |                     |
| 9                |               |                                 |                |         | 0.0       | NOI               | 8.9 - 12.0       | Gray, medium       | sand  |                       |                      |                     |
|                  |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
| 10               |               | 40/05                           |                |         |           |                   |                  |                    |   |                       |                      |                     |
| 11               | 3             | 4.0/3.6                         |                |         |           |                   |                  |                    |   |                       |                      |                     |
|                  |               |                                 | 1              |         |           |                   |                  |                    |   |                       |                      |                     |
| 12               |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
|                  |               |                                 |                |         | <u> </u>  |                   |                  | D " CF '           | 1011  |                       |                      |                     |
|                  |               |                                 |                |         |           |                   |                  | Bottom of Boring - | 12 bgs  |                       |                      |                     |
|                  | _             |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |
| TOI              | ES:           | No obser                        | rvable         | impac   | ets       |                   |                  |                    |   |                       |                      | SOIL BORING LOG     |
|                  |               |                                 |                |         |           |                   |                  |                    |   |                       |                      |                     |

| WELL/PIEZOM              | ETER CONSTR          | UCTION DIAGRA   | AM STICKUP      | LOCATIO        |                | -301               |            |
|--------------------------|----------------------|-----------------|-----------------|----------------|----------------|--------------------|------------|
| Project Name:            | Saranac Lake Gas Co  | ompany          |                 | Date Started:  | 11/17/2016     | Date Completed:    | 11/17/2016 |
| Project Location:        | Saranac Lake, NY     |                 |                 | Logged By:     | D. Farrell     | -                  |            |
| Project Number:          | 3611161193           | Task Number     | .03             | Checked By:    | B. Havens      | Checked Date:      | 1/5/2017   |
| Subcontractor:           | Precision Environmen | Drilling Method | : Direct Push   |                |                |                    |            |
| Development Method:      | Low Flow / Purge     | Development Da  | ate: 01/20/2017 |                | Measuring P    | oint Information   |            |
| Bucking Posts/Ballards:  | NA                   |                 |                 |                |                |                    |            |
| Notes:                   |                      |                 |                 |                | oint (MP) Type | e Top Of I         | Riser      |
|                          |                      |                 |                 | MP Elevation   | ı (ft):        |                    |            |
| Item                     | Depth BMP (ft)       | Elevation (ft)  |                 |                | Desc           | ription            |            |
| Cristan                  |                      |                 |                 | Lock Identific | ation          | NA                 |            |
| Stickup                  |                      |                 |                 |                |                |                    |            |
| Riser Pipe (Top)         |                      |                 | <b>-</b> ∕∏     | Stickup Casing | g Type:        | NA                 |            |
| Ground Surface Elevation | on                   |                 |                 | Stickup Casing | g Diameter:    | NA                 |            |
|                          |                      |                 |                 | Surface Seal T | Type:          | Hydrated 3/8 Ben   | tonite     |
|                          |                      | '               |                 |                |                |                    |            |
|                          |                      |                 |                 | Backfill/Grout | Type:          | Hydrated 3/8 Ben   | tonite     |
|                          |                      |                 |                 | Riser Pipe Typ | pe:            | 1 3/8 Sch. 40 PVC  | 2          |
|                          |                      |                 |                 | Riser Pipe ID: |                | 1"                 |            |
| Top of Well Seal         | 0.0                  |                 |                 | Borehole Dian  | neter:         | 2.25"              |            |
|                          |                      |                 | <b>←</b>        | Type of Seal:  |                | Hydrated 3/8 Ben   | tonite     |
| Top of Sand Pack         | 1.0 ft bgs           |                 |                 |                |                |                    |            |
| Top of Screen            | 2.0 ft bgs           |                 |                 |                |                |                    |            |
| · ·                      |                      |                 |                 | Screen Type:   |                | Slotted 1 3/8 Sch. | 40 PVC     |
|                          |                      |                 |                 | Screen ID:     |                | 1"                 |            |
|                          |                      |                 |                 | Screen Slot Si | ze:            | 0.010"             |            |
|                          |                      |                 |                 | Screen Length  | :              | 10'                |            |
|                          |                      |                 | 4-              | Filter/Sand Pa | ck             |                    |            |
| Base of Screen           | 12.0 ft bgs          |                 |                 | Type:          |                | #1 Sand (Filpro Q  | uartz)     |
| End Cap                  | 12.0 ft bgs          |                 |                 | Sump:          |                |                    |            |
| Drilled Depth            | 12.0 ft bgs          |                 |                 | Fallback/Back  | fill:          | NA                 |            |
| Bottom of Exploration    | 12.0 ft bgs          |                 |                 |                |                |                    |            |
| Bedrock Surface          | NA                   | V               |                 |                |                | NO.                | TO SCALE   |



FIGURE 4.7 WELL/PIEZOMETER CONSTRUCTION DIAGRAM - STICKUP NYSDEC QUALITY ASSURANCE PROJECT PLAN

## LOCATION ID: WELL/PIEZOMETER CONSTRUCTION DIAGRAM STICKUP PZ-302 11/9/2016 11/9/2016 Project Name: Date Started: Date Completed: Saranac Lake Gas Company Project Location: Saranac Lake, NY Logged By: D. Farrell Project Number: 3611161193 Task Number .03 Checked By: B. Havens Checked Date: 1/5/2017 Subcontractor: Precision Environmental Drilling Method: Direct Push **Measuring Point Information** Development Date: 11/18/2016 Development Method: Low Flow / Purge Bucking Posts/Ballards: NA Top Of Riser Notes: Measuring Point (MP) Type MP Elevation (ft): Item Depth BMP (ft) Elevation (ft) Description Lock Identification NA Stickup Riser Pipe (Top) Stickup Casing Type: Stickup Casing Diameter: Ground Surface Elevation NA Surface Seal Type: Hydrated 3/8 Bentonite Backfill/Grout Type: Hydrated 3/8 Bentonite Riser Pipe Type: 1 3/8 Sch. 40 PVC Riser Pipe ID: Borehole Diameter: 2.25" Top of Well Seal 0.0 Type of Seal: Hydrated 3/8 Bentonite Top of Sand Pack 3.0 ft bgs Top of Screen 6.0 ft bgs Screen Type: Slotted 1 3/8 Sch. 40 PVC Screen ID: 0.010" Screen Slot Size: Screen Length: 10' Filter/Sand Pack #1 Sand (Filpro Quartz) Type: Base of Screen 16.0 ft bgs End Cap 16.0 ft bgs Sump: Drilled Depth Fallback/Backfill: 16.0 ft bgs NA 16.0 ft bgs Bottom of Exploration



NA

Bedrock Surface

FIGURE 4.7
WELL/PIEZOMETER CONSTRUCTION DIAGRAM - STICKUP
NYSDEC QUALITY ASSURANCE PROJECT PLAN

NOT TO SCALE

|                          |                      |                       |              | LOCATIO                 |             |                    |           |
|--------------------------|----------------------|-----------------------|--------------|-------------------------|-------------|--------------------|-----------|
| WELL/PIEZOM              | ETER CONSTR          | UCTION DIAGRAM        | M STICKUP    |                         | P           | Z-303              |           |
| Project Name:            | Saranac Lake Gas Co  | ompany                |              | Date Started:           | 11/9/2016   | Date Completed:    | 11/9/2016 |
| Project Location:        | Saranac Lake, NY     |                       |              | Logged By:              | D. Farrell  |                    |           |
| Project Number:          | 3611161193           | Task Number           | .03          | Checked By:             | B. Havens   | Checked Date:      | 1/5/2017  |
| Subcontractor:           | Precision Environmen | ntal Drilling Method: | Direct Push  |                         |             |                    |           |
| Development Method:      | Low Flow / Purge     | Development Date      | : 11/18/2016 |                         | Measuring   | Point Information  |           |
| Bucking Posts/Ballards:  | NA                   |                       |              |                         |             |                    |           |
| Notes:                   |                      |                       |              | Measuring Po            |             | Top Of R           | liser     |
|                          |                      |                       |              | MP Elevation            | ı (ft):     |                    |           |
| Item                     | Depth BMP (ft)       | Elevation (ft)        |              |                         | Des         | scription          |           |
|                          |                      | <u>.</u>              |              | Lock Identific          | ation       | NA                 |           |
| Stickup                  |                      |                       | *            |                         |             |                    |           |
| Riser Pipe (Top)         | 1.92                 |                       |              | Stickup Casin           | g Type:     | NA                 |           |
| Ground Surface Elevation | on                   |                       |              | Stickup Casing          | g Diameter: | NA                 |           |
|                          |                      |                       |              | Surface Seal T          | 'ype:       | Hydrated 3/8 Bent  | onite     |
|                          |                      | 1                     |              |                         |             |                    |           |
|                          |                      |                       | -            | Backfill/Grout          | Type:       | Hydrated 3/8 Bent  | onite     |
|                          |                      |                       |              | Riser Pipe Typ          | pe:         | 1 3/8 Sch. 40 PVC  | !         |
|                          |                      |                       |              | Riser Pipe ID:          |             | 1 "                |           |
|                          |                      |                       |              | Borehole Dian           | neter:      | 2.25"              |           |
| Top of Well Seal         | 0.0                  |                       |              |                         |             |                    |           |
| T 60 10 1                | 1.5.6.1              |                       |              | Type of Seal:           |             | Hydrated 3/8 Bent  | onite     |
| Top of Sand Pack         | 1.5 ft bgs           |                       |              |                         |             |                    |           |
| Top of Screen            | 3.0 ft bgs           |                       |              |                         |             |                    |           |
| 1                        |                      |                       |              | Screen Type:            |             | Slotted 1 3/8 Sch. | 40 PVC    |
|                          |                      |                       |              | Screen ID:              |             | 1"                 |           |
|                          |                      |                       |              | Screen Slot Si          | ze:         | 0.010"             |           |
|                          |                      |                       |              | Screen Length           | :           | 5'                 |           |
|                          |                      |                       |              |                         |             |                    |           |
|                          |                      |                       |              | Filter/Sand Pa<br>Type: | ck          | #1 Sand (Filpro Q  | uartz)    |
| Base of Screen           | 8.0 ft bgs           |                       |              |                         |             |                    |           |
| End Cap                  | 8.0 ft bgs           |                       |              | Sump:                   |             |                    |           |
| Drilled Depth            | 8.0 ft bgs           |                       |              | Fallback/Back           | fill:       | NA                 |           |
| Bottom of Exploration    | 8.0 ft bgs           |                       |              |                         |             |                    |           |



NA

Bedrock Surface

FIGURE 4.7 WELL/PIEZOMETER CONSTRUCTION DIAGRAM - STICKUP NYSDEC QUALITY ASSURANCE PROJECT PLAN

NOT TO SCALE

|                          |                      |                       |               | LOCATIO                 | N ID:       |                     |           |
|--------------------------|----------------------|-----------------------|---------------|-------------------------|-------------|---------------------|-----------|
| WELL/PIEZOM              | ETER CONSTR          | UCTION DIAGRA         | M STICKUP     |                         |             | Z-304               |           |
| Project Name:            | Saranac Lake Gas C   | ompany                |               | Date Started:           | 11/9/2016   | Date Completed:     | 11/9/2016 |
| Project Location:        | Saranac Lake, NY     |                       |               | Logged By:              | D. Farrell  |                     |           |
| Project Number:          | 3611161193           | Task Number           | .03           | Checked By:             | B. Havens   | Checked Date:       | 1/5/2017  |
| Subcontractor:           | Precision Environmen | ntal Drilling Method: | Direct Push   |                         |             |                     |           |
| Development Method:      | Low Flow / Purge     | Development Date      | e: 11/18/2016 |                         | Measuring   | Point Information   |           |
| Bucking Posts/Ballards:  | NA                   |                       |               |                         |             |                     |           |
| Notes:                   |                      |                       |               | Measuring Po            |             | pe Top Of R         | liser     |
|                          |                      |                       |               | MP Elevation            | ı (ft):     |                     |           |
| Item                     | Depth BMP (ft)       | Elevation (ft)        |               |                         | Des         | scription           |           |
| C4: alarm                |                      | <u></u>               |               | _Lock Identific         | ation       | NA                  |           |
| Stickup                  |                      | T                     |               |                         |             |                     |           |
| Riser Pipe (Top)         | 2.85                 |                       | /             | Stickup Casin           | g Type:     | NA                  |           |
| Ground Surface Elevation | on                   |                       | IF            | Stickup Casin           | g Diameter: | NA                  |           |
|                          |                      |                       |               | Surface Seal T          | Type:       | Hydrated 3/8 Bent   | onite     |
|                          |                      |                       |               |                         |             |                     |           |
|                          |                      |                       |               | Backfill/Grout          | t Type:     | Hydrated 3/8 Bent   | onite     |
|                          |                      |                       |               | Riser Pipe Typ          | pe:         | 1 3/8 Sch. 40 PVC   |           |
|                          |                      |                       |               | Riser Pipe ID:          |             | 1 "                 |           |
|                          |                      |                       |               | Borehole Dian           | neter:      | 2.25"               |           |
| Top of Well Seal         | 0.0                  |                       |               |                         |             |                     |           |
| Top of Sand Pack         | 1.0 ft bgs           |                       |               | Type of Seal:           |             | Hydrated 3/8 Bent   | onite     |
| Top of Sand Taos         |                      |                       |               |                         |             |                     |           |
| Top of Screen            | 1.0 ft bgs           |                       |               | Screen Type:            |             | Slotted 1 3/8 Sch.  | 40 DVC    |
|                          |                      |                       |               |                         |             | Stotted 1 3/6 Bell. | 401 VC    |
|                          |                      |                       |               | Screen ID:              |             | 1"                  |           |
|                          |                      |                       |               | Screen Slot Si          | ze:         | 0.010"              |           |
|                          |                      |                       |               | Screen Length           | :           | 10'                 |           |
|                          |                      |                       |               |                         |             |                     |           |
|                          |                      |                       |               | Filter/Sand Pa<br>Type: | ck          | #1 Sand (Filpro Q   | uartz)    |
| Base of Screen           | 11.0 ft bgs          |                       |               |                         |             |                     | -         |
| End Cap                  | 11.0 ft bgs          |                       |               | Sump:                   |             |                     |           |
| Drilled Depth            | 12.0 ft bgs          |                       |               | Fallback/Back           | fill:       | 1.0'                |           |
| Bottom of Exploration    | 12.0 ft bgs          |                       |               |                         |             |                     |           |
|                          |                      |                       |               |                         |             |                     |           |



Bedrock Surface

NA

NOT TO SCALE

|  |                      |   |                  |          | LOCATIO        | N ID:       |                    |            |
|--|----------------------|---|------------------|----------|----------------|-------------|--------------------|------------|
| WELL/PIEZOM  | ETER CONSTR          | UCTION DIAGR                                  | RAM STICK        | UP       |                | PZ          | -311               |            |
| Project Name:  | Saranac Lake Gas C   | ompany  |                  |          | Date Started:  | 11/17/2016  | Date Completed:    | 11/17/2016 |
| Project Location:  | Saranac Lake, NY     | <u>, , , , , , , , , , , , , , , , , , , </u> |                  | _        | Logged By:     | D. Farrell  |                    |            |
| Project Number:  | 3611161193           | Task Number                                   | .03              |          | Checked By:    | B. Havens   | Checked Date:      | 1/5/2017   |
| Subcontractor:   | Precision Environmen | ntal Drilling Metho                           | od: Direct Pus   | h        |                |             |                    |            |
| Development Method:  | Low Flow / Purge     | Development I                                 | Date: 01/20/2017 | 7        |                | Measuring P | oint Information   |            |
| Bucking Posts/Ballards:  | NA                   |   |                  |          |                |             |                    |            |
| Notes:   |                      |   |                  |          |                |             | Top Of l           | Riser      |
|  |                      |   |                  |          | MP Elevation   | (ft):       |                    |            |
| Item   | Depth BMP (ft)       | Elevation (ft)                                |                  |          |                | Desc        | ription            |            |
|  |                      | ,   |                  |          | Lock Identific |             |                    |            |
| Stickup  |                      |   |                  | 1        | Lock Identifie | ution       | 1471               |            |
| Riser Pipe (Top)   |                      |   |                  |          | Stickup Casing | g Type:     | NA                 |            |
| Project Location: Surmure Lake, NY Project Number: 36116198 36116198 36116198 378 Number: 0.33 388 Number: 0.35 389 Development Method: Precision Environmental Drilling Method: Direct Push Development Method: Low Flow Purge Development Date: 01/20/2017 Bucking Posts-Ballards: NA Notes: |                      |   |                  |          |                |             |                    |            |
|  |                      |   |                  | \        | Surface Seal T | 'ype:       | Hydrated 3/8 Ben   | tonite     |
|  |                      |   |                  |          |                |             |                    |            |
|  |                      |   |                  | _        | Backfill/Grout | Type:       | Hydrated 3/8 Ben   | tonite     |
|  |                      |   |                  |          | Riser Pipe Typ | pe:         | 1 3/8 Sch. 40 PV   | <u> </u>   |
|  |                      |   |                  |          | Riser Pipe ID: |             | 1 "                |            |
| Top of Well Seal   | 0.0                  |   |                  | <b>—</b> | Borehole Dian  | neter:      | 2.25"              |            |
|  |                      |   |                  | <b>—</b> | Type of Seal:  |             | Hydrated 3/8 Ben   | tonite     |
| Top of Sand Pack   | 1.0 ft bgs           |   |                  |          |                |             |                    |            |
| Top of Screen  | 2.0 ft bgs           |   |                  |          |                |             |                    |            |
|  |                      |   | <b>—</b>         | _        | Screen Type:   |             | Slotted 1 3/8 Sch. | 40 PVC     |
|  |                      |   |                  |          | Screen ID:     |             | 1"                 |            |
|  |                      |   |                  |          | Screen Slot Si | ze:         | 0.010"             |            |
|  |                      |   |                  |          | Screen Length  | :           | 10'                |            |
|  |                      |   | -                |          | Filter/Sand Pa | ck          |                    |            |
| Base of Screen   | 12.0 ft bgs          |   |                  |          | Type:          |             | #1 Sand (Filpro C  | uartz)     |
| End Cap  | 12.0 ft bgs          |   |                  | _        | Sump:          |             |                    |            |
| Drilled Depth  | 12.0 ft bgs          |   |                  | <b>—</b> | Fallback/Back  | fill:       | NA                 |            |
| Bottom of Exploration  | 12.0 ft bgs          | . ———   |                  |          |                |             |                    |            |
| Dadraak Curfaaa  | N/A                  |   |                  |          |                |             | NO                 | TTOSCALE   |



FIGURE 4.7 WELL/PIEZOMETER CONSTRUCTION DIAGRAM - STICKUP NYSDEC QUALITY ASSURANCE PROJECT PLAN

| WELL/PIE                 | ZOMETER CON<br>FLUSHM | STRUCTION DIAG      | RAM         | LOCATION              | ID:         | -317              |             |
|--------------------------|-----------------------|---------------------|-------------|-----------------------|-------------|-------------------|-------------|
| Project Name:            | Saranac Lake Gas Co   | mpany               |             | Date Started:         | 11/9/2016   | Date Completed:   | 11/9/2016   |
| Project Location:        | Saranac Lake, NY      |                     |             | Logged By:            | D. Farrell  |                   |             |
| Project Number:          | 3611161193            | Task Number         | .03         | Checked By:           | B. Havens   | Checked Date:     | 1/5/2017    |
| Subcontractor:           | Precision Environment | al Drilling Method: | Direct Push |                       |             |                   |             |
| Development Method:      | Low Flow / Purge      | Development Date:   | 11/18/2016  |                       | Measuring P | oint Information  |             |
| Bucking Posts/Ballards:  | NA                    |                     |             |                       |             |                   |             |
| Notes:                   |                       |                     |             | Measuring Poin        |             | Top Of            | Riser       |
|                          |                       |                     |             | MP Elevation (1       | ft):        |                   |             |
| Item                     | Depth BMP (ft)        | Elevation (ft)      |             |                       | Descr       | ription           |             |
| Surface Casing Elevation |                       |                     | Slop        | oe Away               |             |                   |             |
| Ground Surface Elevation | 1                     |                     |             | -<br>Surface Seal Typ | ne.         | Concrete          |             |
| Riser Pipe (Top)         |                       |                     |             |                       |             |                   |             |
|                          |                       |                     |             | Lock Identification   | on          | NA                |             |
|                          |                       |                     |             | Stickup Casing I      | Diameter:   |                   |             |
|                          |                       |                     |             | Backfill/Grout T      | ype:        | Hydrated 3/8 Ber  | atonite     |
|                          |                       |                     |             | Riser Pipe Type:      | :           | 1 3/8 Sch. 40 PV  | С           |
|                          |                       |                     |             | Riser Pipe ID:        |             | 1 "               |             |
| Top of Well Seal         | 0.0                   |                     |             | Borehole Diame        | ter:        | 2.25"             |             |
|                          |                       |                     |             | Type of Seal:         |             | Hydrated 3/8 Ber  | tonite      |
| Top of Sand Pack         | 2.0 ft bgs            |                     |             |                       |             |                   |             |
| Top of Screen            | 3.0 ft bgs            |                     |             |                       |             |                   |             |
|                          |                       |                     |             | Screen Type:          |             | Slotted 1 3/8 Sch | . 40 PVC    |
|                          |                       |                     |             | Screen ID:            |             | 1"                |             |
|                          |                       |                     |             | Screen Slot Size      | :           | 0.010"            |             |
|                          |                       |                     |             | Screen Length:        |             | 5'                |             |
|                          |                       |                     |             | Filter/Sand Pack      |             |                   |             |
| Base of Screen           | 8.0 ft bgs            |                     |             | Type:                 |             | #1 Sand (Filpro C | (uartz)     |
| End Cap                  | 8.0 ft bgs            |                     |             | Sump:                 |             |                   |             |
| Drilled Depth            | 9.5 ft bgs            |                     |             | Fallback/Backfil      | 1:          | 1.5 '             |             |
| Bottom of Exploration    | 9.5 ft bgs            |                     |             |                       |             |                   |             |
| Bedrock Surface          | NA                    |                     |             |                       |             | NO                | OT TO SCALE |



| WELL/PIE                            | ZOMETER CON<br>FLUSHM                    | STRUCTION DIAGRAM<br>OUNT                                 | LOCATION ID:                                  | 2-318                     |
|-------------------------------------|--|---|---|---------------------------|
| Project Name: Project Location:     | Saranac Lake Gas Con<br>Saranac Lake, NY |   | Date Started: 11/9/2016 Logged By: D. Farrell | Date Completed: 11/9/2016 |
| Project Number:                     | 3611161193                               | Task Number .03   | Checked By: B. Havens                         | Checked Date: 1/5/2017    |
| Subcontractor:  Development Method: | Precision Environment  Low Flow / Purge  | Drilling Method: Direct Push Development Date: 11/18/2016 | Measuring I                                   | Point Information         |
| Bucking Posts/Ballards:             | NA                                       |   |   |                           |
| Notes:                              |  |   | Measuring Point (MP) Type:                    | Top Of Riser              |
|                                     |  |   | MP Elevation (ft):                            |                           |
| Item                                | Depth BMP (ft)                           | Elevation (ft)  | Desc  | cription                  |
| Surface Casing Elevation            |  | Slo   | ope Away                                      |                           |
| Ground Surface Elevation            |  |   | Surface Seal Type:                            | Concrete                  |
| Riser Pipe (Top)                    |  |   | Lock Identification                           | NA                        |
|                                     |  |   | Stickup Casing Diameter:                      |                           |
|                                     |  |   | Backfill/Grout Type:                          | Hydrated 3/8 Bentonite    |
|                                     |  |   | Riser Pipe Type:                              | 1 3/8 Sch. 40 PVC         |
|                                     |  |   | Riser Pipe ID:                                | 1 "                       |
| Top of Well Seal                    | 0.0                                      |   | Borehole Diameter:                            | 2.25"                     |
| Top of well seal                    |  | <b>————————————————————————————————————</b>               | Type of Seal:                                 | Hydrated 3/8 Bentonite    |
| Top of Sand Pack                    | 1.5 ft bgs                               |   |   |                           |
| Top of Screen                       | 3.0 ft bgs                               |   |   |                           |
|                                     |  |   | Screen Type:                                  | Slotted 1 3/8 Sch. 40 PVC |
|                                     |  |   | Screen ID:                                    |                           |
|                                     |  |   | Screen Slot Size:                             | 0.010"                    |
|                                     |  |   | Screen Length:                                | 5'                        |
| D 40                                | 0.001                                    |   | Filter/Sand Pack<br>Type:                     | #1 Sand (Filpro Quartz)   |
| Base of Screen                      | 8.0 ft bgs                               |   |   |                           |
| End Cap                             | 8.0 ft bgs                               |   | Sump:   |                           |
| Drilled Depth                       | 12.0 ft bgs                              |   | Fallback/Backfill:                            | 4.0 '                     |
| Bottom of Exploration               | 12.0 ft bgs                              |   |   |                           |
| Bedrock Surface                     | NA                                       |   |   | NOT TO SCALE              |



| WELL/PIE                 | ZOMETER CON<br>FLUSHM | STRUCTION DIAGR   | RAM         | LOCATION ID: PZ                                  | -328                       |
|--------------------------|-----------------------|-------------------|-------------|--|----------------------------|
| Project Name:            | Saranac Lake Gas Co   | npany             |             | Date Started: 11/10/2016                         | Date Completed: 11/10/2016 |
| Project Location:        | Saranac Lake, NY      |                   |             | Logged By: D. Farrell                            |                            |
| Project Number:          | 3611161193            | Task Number       | .03         | Checked By: B. Havens                            | Checked Date: 1/5/2017     |
| Subcontractor:           | Precision Environment | <u> </u>          | Direct Push |  |                            |
| Development Method:      | Low Flow / Purge      | Development Date: | 11/18/2016  | Measuring P                                      | oint Information           |
| Bucking Posts/Ballards:  | NA                    |                   |             | N  | T. OCD.                    |
| Notes:                   |                       |                   |             | Measuring Point (MP) Type:<br>MP Elevation (ft): | Top Of Riser               |
|                          |                       |                   |             | MF Elevation (it):                               |                            |
| Item                     | Depth BMP (ft)        | Elevation (ft)    |             | Desc   | ription                    |
| Surface Casing Elevation |                       |                   | Slop        | e Away   |                            |
| Ground Surface Elevation |                       |                   |             | Surface Seal Type:                               | Concrete                   |
| Riser Pipe (Top)         |                       |                   |             | Lock Identification                              | NA                         |
|                          |                       |                   |             | Stickup Casing Diameter:                         |                            |
|                          |                       |                   | -           | Backfill/Grout Type:                             | Hydrated 3/8 Bentonite     |
|                          |                       |                   |             | Riser Pipe Type:                                 | 1 3/8 Sch. 40 PVC          |
|                          |                       |                   |             | Riser Pipe ID:                                   | 1 "                        |
| Top of Well Seal         | 0.0                   |                   |             | Borehole Diameter:                               | 2.25"                      |
|                          |                       |                   | <b>←</b>    | Type of Seal:                                    | Hydrated 3/8 Bentonite     |
| Top of Sand Pack         | 2.0 ft bgs            |                   |             |  |                            |
| Top of Screen            | 3.0 ft bgs            |                   |             | Screen Type:                                     | Slotted 1 3/8 Sch. 40 PVC  |
|                          |                       |                   |             | Screen ID:                                       | 1"                         |
|                          |                       |                   |             | Screen Slot Size:                                | 0.010"                     |
|                          |                       |                   |             | Screen Length:                                   | 5'                         |
|                          |                       |                   | -           | Filter/Sand Pack<br>Type:                        | #1 Sand (Filpro Quartz)    |
| Base of Screen           |                       |                   |             |  |                            |
| End Cap                  |                       |                   |             | Sump:  |                            |
| Drilled Depth            | 15.0 ft bgs           |                   |             | Fallback/Backfill:                               |                            |
| Bottom of Exploration    | 15.0 ft bgs           |                   |             |  |                            |
| Bedrock Surface          | NA                    |                   |             |  | NOT TO SCALE               |



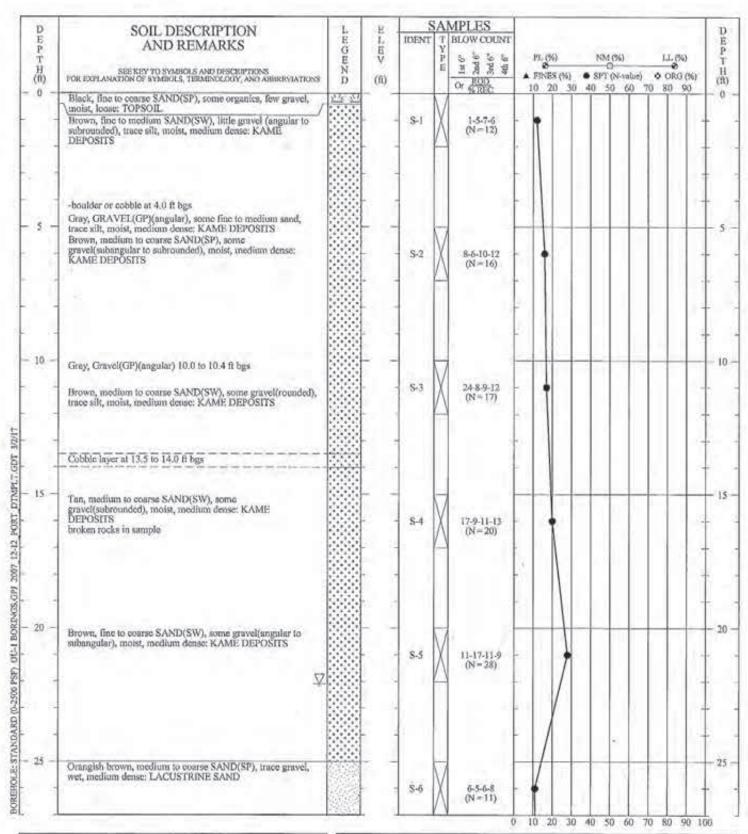
| WELL/PIE                 | ZOMETER CON<br>FLUSHM | STRUCTION DIAG      | RAM         | LOCATION I                |             | -332              |             |
|--------------------------|-----------------------|---------------------|-------------|---------------------------|-------------|-------------------|-------------|
| Project Name:            | Saranac Lake Gas Co.  | mpany               |             | Date Started: 1           | 11/10/2016  | Date Completed:   | 11/10/2016  |
| Project Location:        | Saranac Lake, NY      |                     |             | Logged By:                | D. Farrell  | =                 |             |
| Project Number:          | 3611161193            | Task Number         | .03         | Checked By:               | B. Havens   | Checked Date:     | 1/5/2017    |
| Subcontractor:           | Precision Environment | al Drilling Method: | Direct Push |                           |             |                   |             |
| Development Method:      | Low Flow / Purge      | Development Date:   | 11/18/2016  |                           | Measuring P | oint Information  |             |
| Bucking Posts/Ballards:  | NA                    |                     |             |                           |             |                   |             |
| Notes:                   |                       |                     |             | Measuring Point           |             | Top Of            | Riser       |
|                          |                       |                     |             | MP Elevation (ft          | ī) <b>:</b> |                   |             |
| Item                     | Depth BMP (ft)        | Elevation (ft)      |             |                           | Descr       | ription           |             |
| Surface Casing Elevation |                       |                     | Slop        | e Away                    |             |                   |             |
| Ground Surface Elevation | 1                     |                     |             | Surface Seal Type         | e:          | Concrete          |             |
| Riser Pipe (Top)         |                       |                     |             | Lock Identificatio        | n           | NA                |             |
|                          |                       | I                   |             | Stickup Casing D          | iameter:    |                   |             |
|                          |                       |                     |             | Backfill/Grout Ty         | rpe:        | Hydrated 3/8 Ber  | tonite      |
|                          |                       |                     |             | Riser Pipe Type:          |             | 1 3/8 Sch. 40 PV  | С           |
|                          |                       |                     |             | Riser Pipe ID:            |             | 1 "               |             |
| Top of Well Seal         | 0.0                   |                     |             | Borehole Diamete          | er:         | 2.25"             |             |
| Top of Sand Pack         | 2.0 ft bgs            |                     | <b>←</b>    | Type of Seal:             |             | Hydrated 3/8 Ber  | tonite      |
| Top of Sand Lack         | 2.0 ft 0gs            |                     |             |                           |             |                   |             |
| Top of Screen            | 4.0 ft bgs            |                     | -           | Screen Type:              |             | Slotted 1 3/8 Sch | . 40 PVC    |
|                          |                       |                     |             | Screen ID:                |             | 1"                |             |
|                          |                       |                     |             | Screen Slot Size:         |             | 0.010"            |             |
|                          |                       |                     |             | Screen Length:            |             | 5'                |             |
|                          |                       |                     |             | Filter/Sand Pack<br>Type: |             | #1 Sand (Filpro ( | Quartz)     |
| Base of Screen           | 9.0 ft bgs            |                     |             |                           |             |                   |             |
| End Cap                  | 9.0 ft bgs            |                     |             | Sump:                     |             |                   |             |
| Drilled Depth            | 9.0 ft bgs            |                     |             | Fallback/Backfill:        |             | NA                |             |
| Bottom of Exploration    | 9.0 ft bgs            |                     |             |                           |             |                   |             |
| Bedrock Surface          | NA                    |                     |             |                           |             | NO                | OT TO SCALE |



|   |                      |                                       |                  |          | LOCATIO        | N ID:       |                    |            |
|---|----------------------|---------------------------------------|------------------|----------|----------------|-------------|--------------------|------------|
| WELL/PIEZOM   | ETER CONSTR          | UCTION DIAGR                          | AM STICK         | UP       |                | PZ          | -337               |            |
| Project Name:   | Saranac Lake Gas Co  | ompany                                |                  |          | Date Started:  | 11/17/2016  | Date Completed:    | 11/17/2016 |
| Project Location:   | Saranac Lake, NY     | · · · · · · · · · · · · · · · · · · · |                  |          | Logged By:     | D. Farrell  | -                  |            |
| Project Number:   | 3611161193           | Task Number                           | .03              |          | Checked By:    | B. Havens   | Checked Date:      | 1/5/2017   |
| Subcontractor:  | Precision Environmen | ntal Drilling Metho                   | d: Direct Pus    | h        |                |             | •                  |            |
| Development Method:   | Low Flow / Purge     | Development I                         | Date: 01/20/2017 | 7        |                | Measuring P | oint Information   |            |
| Bucking Posts/Ballards:   | NA                   |                                       |                  |          |                |             |                    |            |
| Notes:  |                      |                                       |                  |          |                |             | Top Of I           | Riser      |
|   |                      |                                       |                  |          | MP Elevation   | ı (ft):     |                    |            |
| Item  | Depth BMP (ft)       | Elevation (ft)                        |                  |          |                | Desc        | ription            |            |
|   |                      |                                       |                  |          | Lock Identific |             |                    |            |
| Stickup   |                      | <u></u>                               |                  | 2        | Lock Identifie | ation       | 1471               |            |
| Riser Pipe (Top)  |                      |                                       |                  |          | Stickup Casing | g Type:     | NA                 |            |
| Project Name:   Survanae Lake Gas Company   Dase Startest   11/17/2016   Dase Completed:                        |                                       |                  |          |                |             |                    |            |
|   |                      |                                       |                  | \        | Surface Seal T | 'ype:       | Hydrated 3/8 Ben   | tonite     |
|   |                      |                                       | '     '          |          |                |             |                    |            |
|   |                      |                                       |                  |          | Backfill/Grout | Туре:       | Hydrated 3/8 Ben   | tonite     |
|   |                      |                                       |                  |          | Riser Pipe Typ | pe:         | 1 3/8 Sch. 40 PV   | <u> </u>   |
|   |                      |                                       |                  |          | Riser Pipe ID: |             | 1 "                |            |
| Top of Well Seal  | 0.0                  |                                       |                  | <b>←</b> | Borehole Dian  | neter:      | 2.25"              |            |
|   |                      |                                       |                  | <b>—</b> | Type of Seal:  |             | Hydrated 3/8 Ben   | tonite     |
| Top of Sand Pack  | 3.5 ft bgs           |                                       |                  |          |                |             |                    |            |
|   |                      |                                       |                  |          |                |             |                    |            |
| Top of Screen   | 7.0 ft bgs           | -                                     |                  |          | Screen Type:   |             | Slotted 1 3/8 Sch. | 40 PVC     |
|   |                      |                                       |                  |          | Screen ID:     |             | 1"                 |            |
|   |                      |                                       |                  |          | Screen Slot Si | ze:         | 0.010"             |            |
|   |                      |                                       |                  |          | Screen Length  | :           | 10'                |            |
|   |                      |                                       |                  |          |                | ck          |                    |            |
| Base of Screen  | 17.0 ft bgs          |                                       |                  |          | Type:          |             | #1 Sand (Filpro C  | (uartz)    |
| End Cap   | 17.0 ft bgs          |                                       |                  |          | Sump:          |             |                    |            |
| Drilled Depth   | 20.0 ft bgs          |                                       |                  | <b>—</b> | Fallback/Back  | fill:       | 3'                 |            |
| Bottom of Exploration   | 20.0 ft bgs          |                                       |                  |          |                |             |                    |            |
| Dadraals Curfosa  | NIA                  |                                       |                  |          |                |             | MO                 | TTOSCALE   |



FIGURE 4.7 WELL/PIEZOMETER CONSTRUCTION DIAGRAM - STICKUP NYSDEC QUALITY ASSURANCE PROJECT PLAN



DRILLER: Aztech Environmental Technologies

RIG TYPE: Geo Probe 3230DT

METHOD: Hollow-Stem Augers

HOLE DIAM .: 4.25° ID

SPTs: 140 lb auto hummer

REMARKS: Boring was backfilled with cement grout. Soil and water

cutting were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

## GEOTECHNICAL BORING RECORD

BORING NO.:

SB-309

DRILLED:

12/1/2016

3611161193.03

PROJECT:

Saranac Lake Gas Company

LOCATION: PROJECT NO.: Saranac Lake, NY

PAGE 1 OF 2



| DE                  | SOIL DESCRIPTION  | L<br>E                     | E                | IDENT |    | MPLES<br>BLOW COUNT  |                            |   |        | D                      |
|---------------------|---|----------------------------|------------------|-------|----|----------------------|----------------------------|---|--------|------------------------|
| P<br>T<br>H<br>(ft) | AND REMARKS  SEE KEY TO SYMBOLS AND DESCRIPTIONS FOR EXPLANATION OF SYMBOLS, TERMINOLOGY, AND ABBREVIATIONS | L<br>E<br>G<br>E<br>N<br>D | E<br>L<br>E<br>V |       | PE | Or ROO<br>September  | PL (%)  FINES (%)  10 20 3 |   | LL (%) | I<br>I<br>I<br>I<br>(f |
|                     | Orangish brown, medium to course SAND(SP), trace gravel, wet, medium donse: LACUSTRINE SAND                 |                            |                  |       |    | 0.000                |                            |   |        |                        |
| 30 -                | Running sands came up into auger when plug was pulled. Not able to sample.                                  |                            |                  |       |    |                      |                            |   |        | 30                     |
| 35 -                | Brown, fine to coarse SAND(SW), trace gravel(subangular), wet, medium densee LACUSTRINE SAND                |                            |                  | S-3   | X  | 2-5-7-13<br>(N = 12) |                            |   |        | - 30                   |
| 1                   |   |                            |                  |       |    |                      |                            |   |        |                        |
| 40 -                | Brown, fine SAND(SP), wer, medium dense: LACUSTRINE SAND  |                            |                  | S-9   | X  | 4-8-7-7<br>(N = 15)  | ŀ                          |   |        | - 4                    |
| 45                  | End of Exploration at 45 ft bgs   |                            |                  |       |    |                      |                            | 7 |        | 4                      |
|                     |   |                            |                  |       |    |                      |                            |   |        |                        |
| 50 —                |   |                            |                  |       |    |                      |                            |   |        | - 50                   |
|                     |   |                            |                  |       |    |                      |                            |   | FE 13  |                        |

DRILLER: Azzech Environental Technologies

RIG TYPE: Geo Probe 3230DT METHOD: Hollow-Stem Augers

HOLE DIAM .: 4,25° ID

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soll and water

cutting were placed in drums.

## GEOTECHNICAL BORING RECORD

BORING NO.: SB-309 DRILLED: 12/1/2016

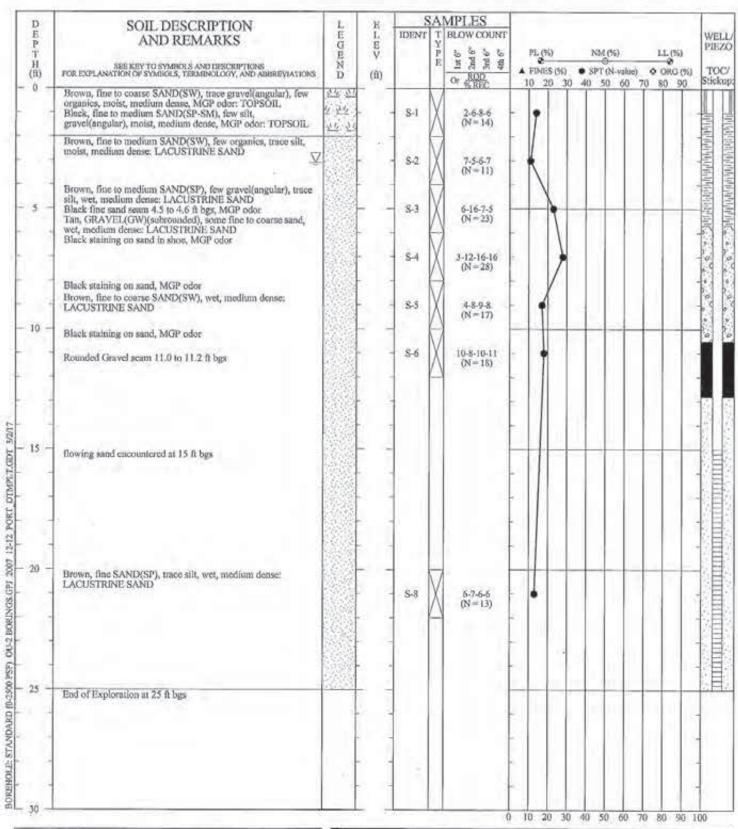
PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY PROJECT NO.: 3611161193.03

PAGE 2 OF 2

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFEL STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.





DRILLER: Aztach Environmental Technologies

RIG TYPE: Geo Probe 3230DT METHOD: Hollow-Stem Augers

HOLE DIAM.: 4.25° ID

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERPACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

#### GEOTECHNICAL BORING RECORD

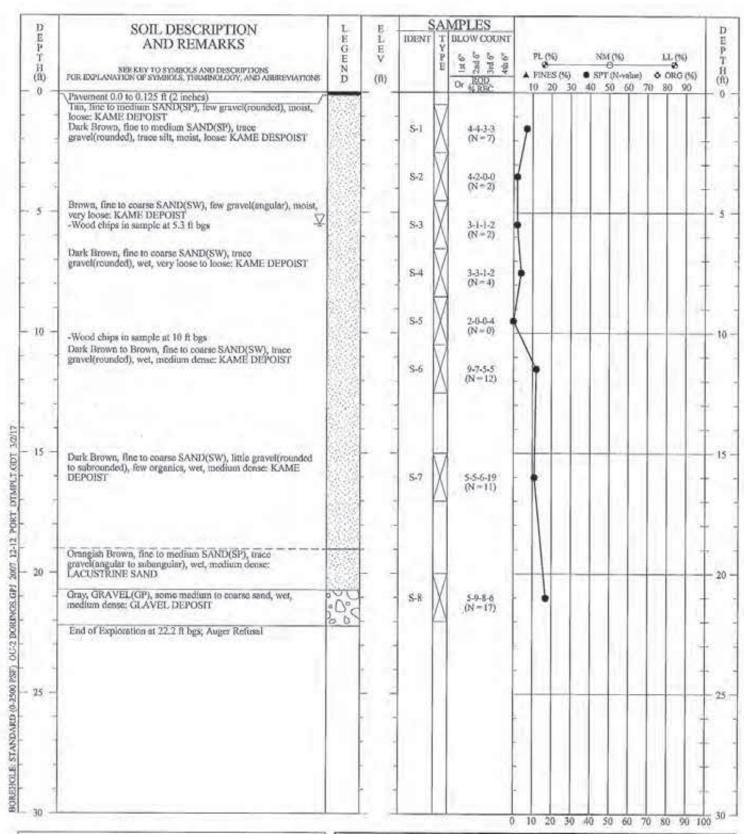
BORING NO.: SB/PZ-328 DRILLED: 11/29/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





DRILLER: Aziech Environmental Technologies

RIG TYPE: Goo Probe 3230DT METHOD: Hollow-Stem Augers

HOLE DIAM .: 4,25" ID

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERPACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BITWEEN STRATA MAY BE GRADUAL.

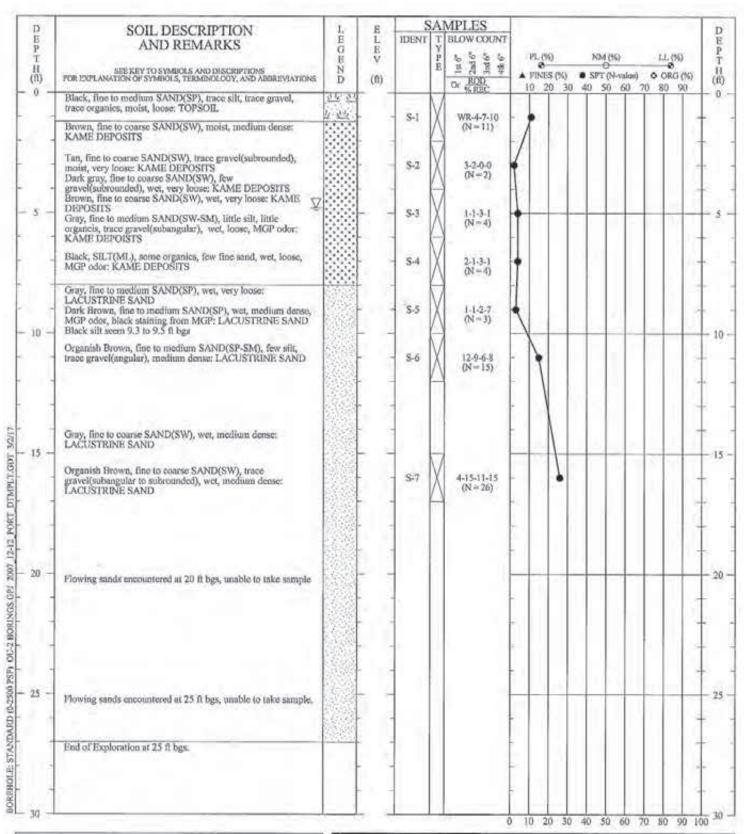
#### GEOTECHNICAL BORING RECORD

BORING NO.: SB-322 DRILLED: 11/30/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY PROJECT NO.: 3611161193.03





DRILLER: Aztech Environmental Technologies

RIG TYPE: Geo Probe 3230DT METHOD: Hollow-Stem Augers

HOLE DIAM: 4.25" ID

SPTx: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

.OGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

#### GEOTECHNICAL BORING RECORD

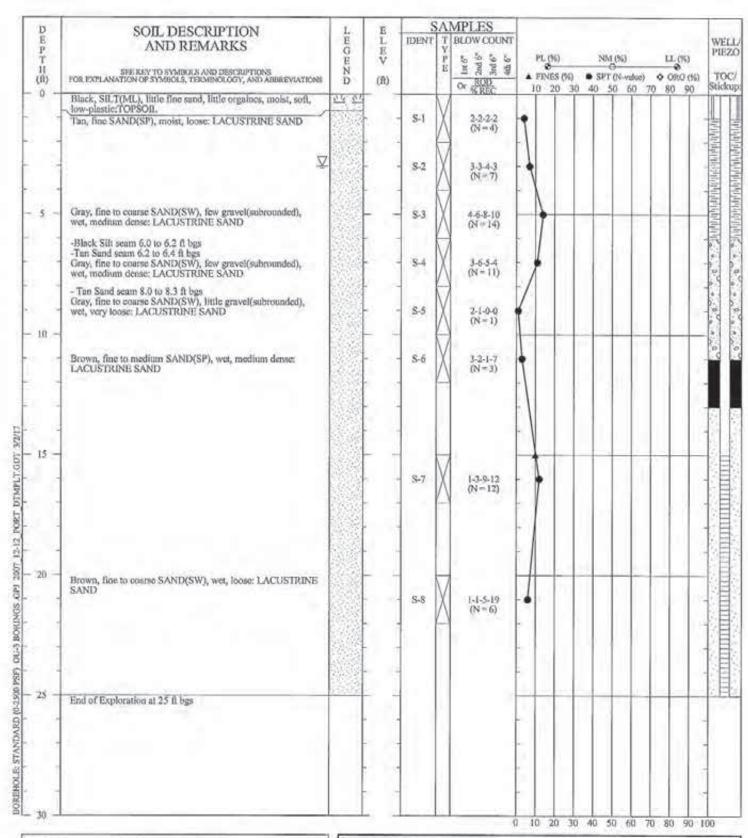
BORING NO.: SB-327

DRILLED: 11/29/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY PROJECT NO.: 3611161193.03





DRILLER: Aztech Environmental Technologies

RIG TYPE: Geo Probe 3230DT METHOD: Hollow-Stem Augers

HOLE DIAM .: 4,25" ID

SPTs: 140 lb auto hummer

REMARKS: Boring was buckfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERPACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADIKAL.

# GEOTECHNICAL BORING RECORD

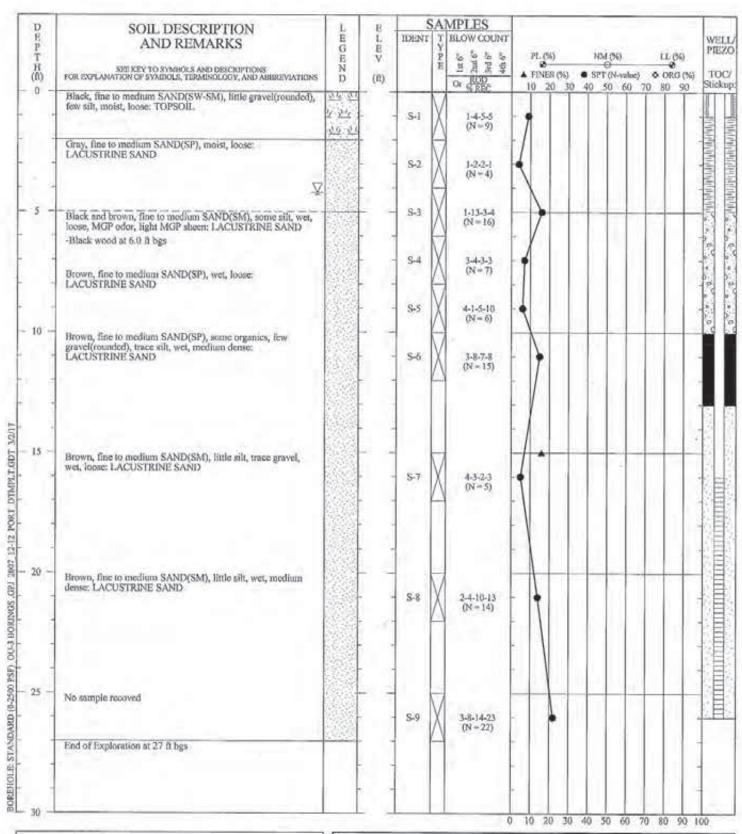
BORING NO.: SB/PZ-331 DRILLED: 11/28/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





DRILLER: Aztech Environental Technologies

RIG TYPE: Geo Probe 3230DT

Hollow-Stem Augers METHOD:

HOLE DIAM .: 4,25" ID

140 lb auto hammer SPISE

REMARKS: Boring was backfilled with coment grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION, SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS HETWEEN STRATA MAY BE OR ANNAMED. MAY BE GRADUAL.

#### GEOTECHNICAL BORING RECORD

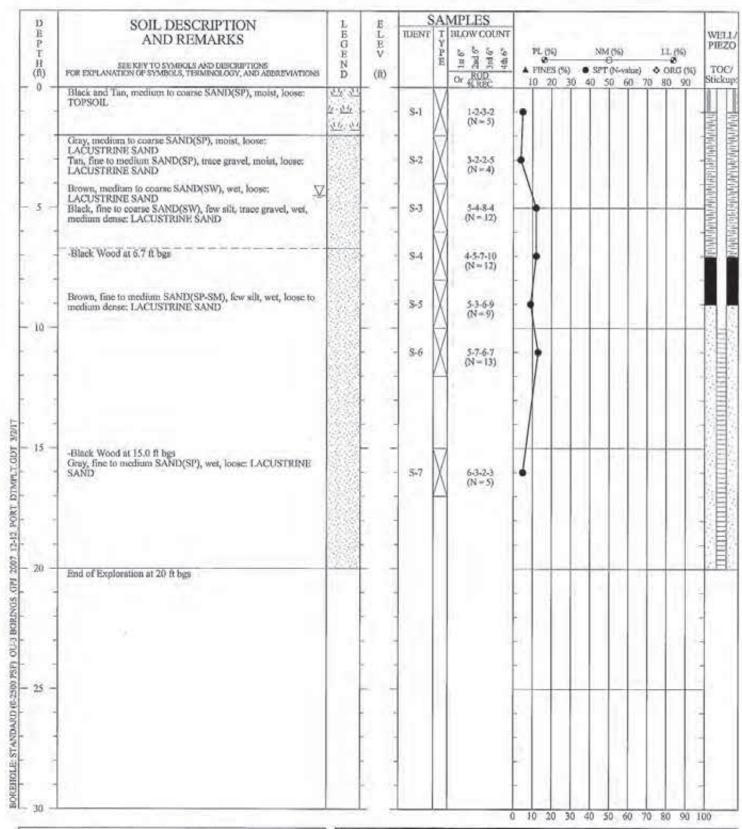
BORING NO .: SB/PZ-335 DRILLED: 11/23/2016

PROJECT:

Saranac Lake Gas Company

LOCATION: Saranac Lake, NY PROJECT NO.: 3611161193.03





DRILLER: Aztech Environental Technologies

RIG TYPE: Geo Probe 3230DT METHOD: Hollow-Stem Augers

HOLE DIAM .: 4,25" ID

SPTs: 140 lb auto hamsser

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB/

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSTREACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSTREACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

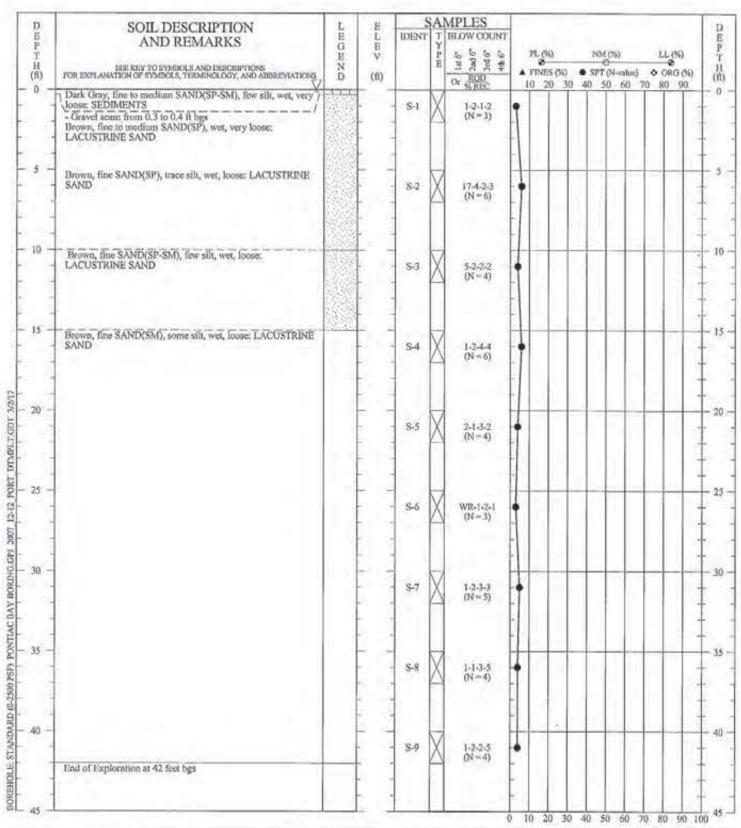
#### GEOTECHNICAL BORING RECORD

BORING NO.: SB/PZ-336 DRILLED: 11/22/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY PROJECT NO.: 3611161193.03





Barge CME-450 RIG TYPE:

METHOD: Rotary Wash with Water (Cased)

HOLE DIAM :

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE:

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

# GEOTECHNICAL BORING RECORD

BORING NO.: SB-501

DRILLED: 11/10/2016 to 11/11/2016

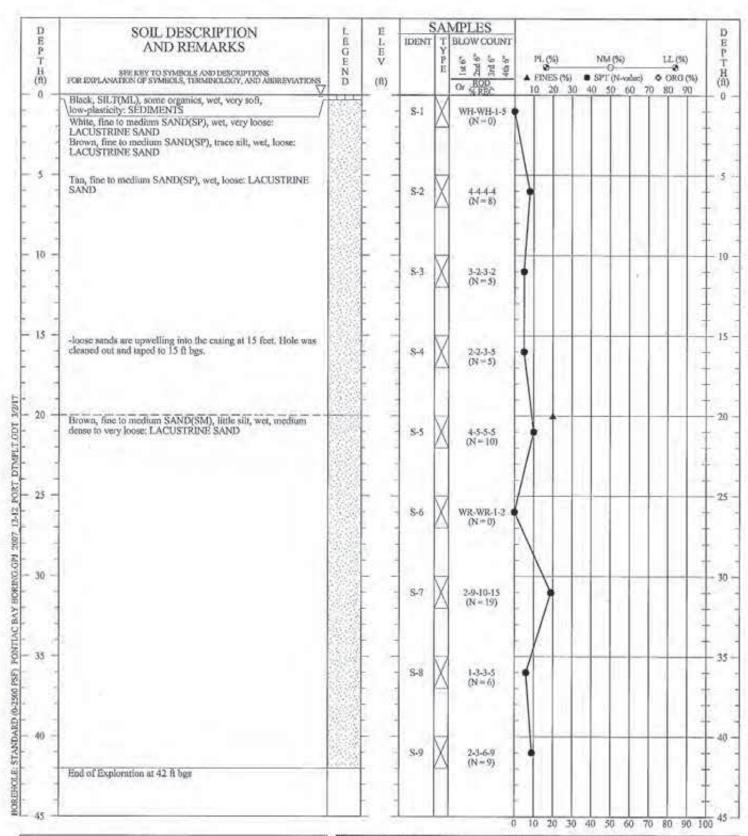
PROJECT: Saranac Lake Gas Company

LOCATION:

Saranac Lake, NY

PROJECT NO .: 3611161193.03





RIG TYPE: Barge CME-450

METHOD: Rotary Wash with Water (Cased)

HOLE DIAM .: 4"

SPTs: 140 lb auto hammer

REMARKS: Boring was buckfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERPACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

#### GEOTECHNICAL BORING RECORD

BORING NO.: SB-502

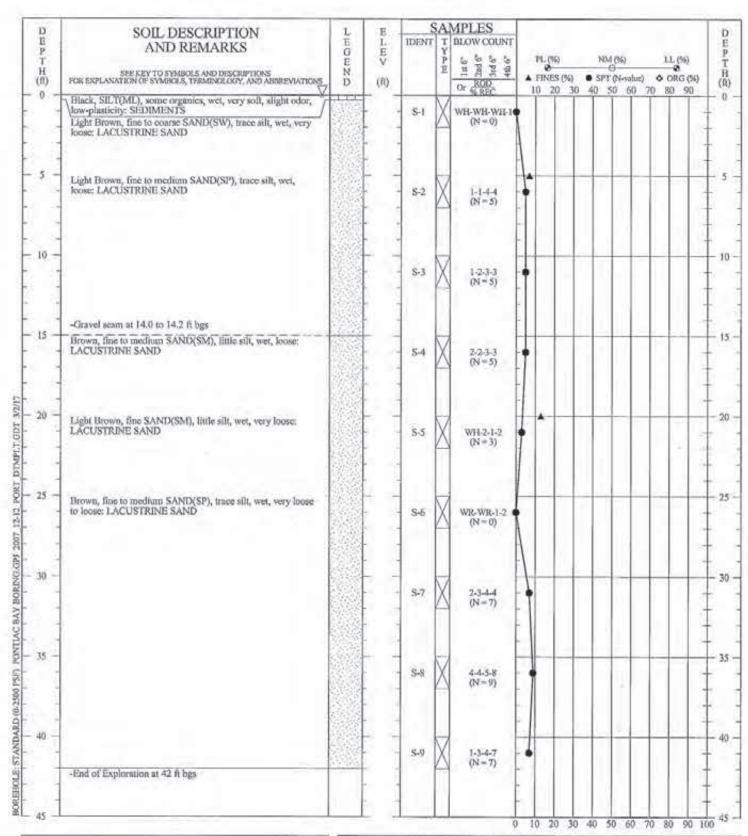
DRILLED: 11/12/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





RIG TYPE: Barge CME-450

METHOD: Rotary Wash with Water (Cased)

HOLE DIAM .: 4"

SPTs: 140 lb auto hummer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB/

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURPACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURPACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERPACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

#### GEOTECHNICAL BORING RECORD

BORING NO.: SB-503

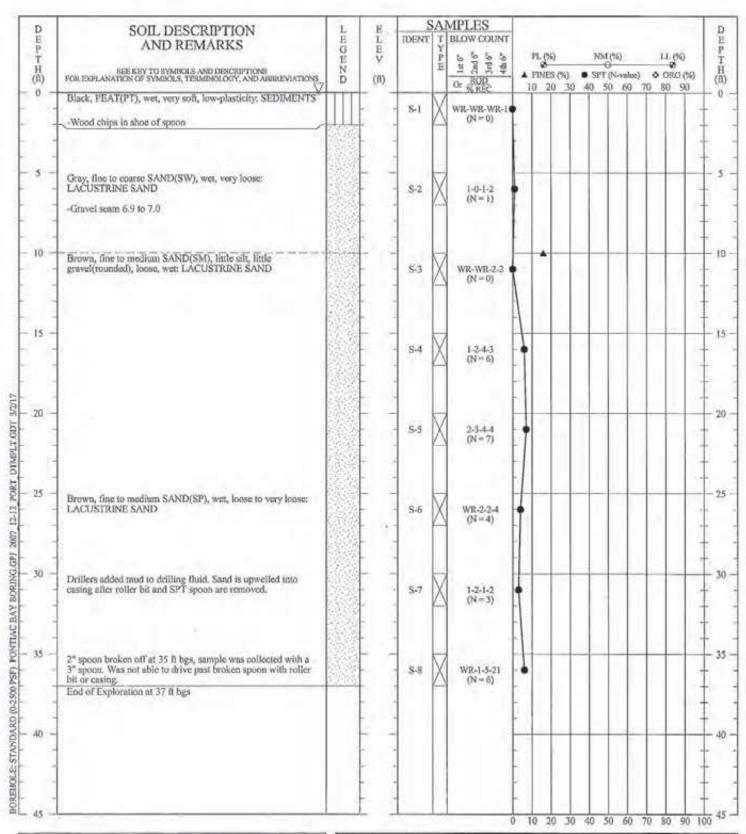
DRILLED: 11/12/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





RIG TYPE: Burge CME-450

METHOD: Rotary Wash with Water (Cased)

HOLE DIAM : 4°

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with coment grout. Soil cuttings

and water were placed in drums.

LOGGED BY; JC CHECKED BY/DATE: JB /

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#### GEOTECHNICAL BORING RECORD

BORING NO.: SB-504

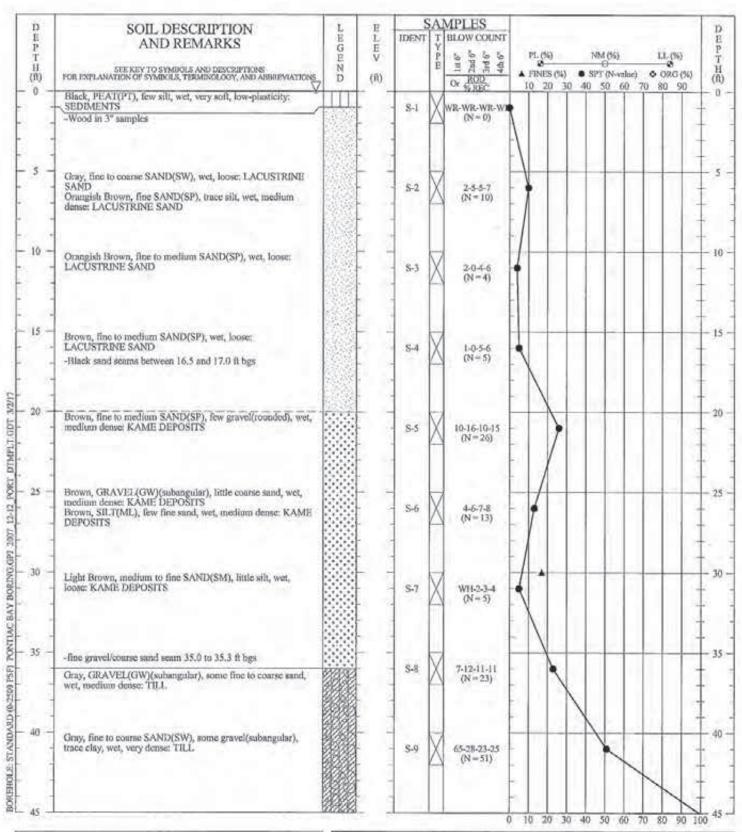
DRILLED: 11/13/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





RIG TYPE: Barge CME-450

METHOD: Rotary Wash with Water (Cased)

HOLE DIAM .: 4"

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB /

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. SYRATA INTERPACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

#### GEOTECHNICAL BORING RECORD

BORING NO.: SB-505

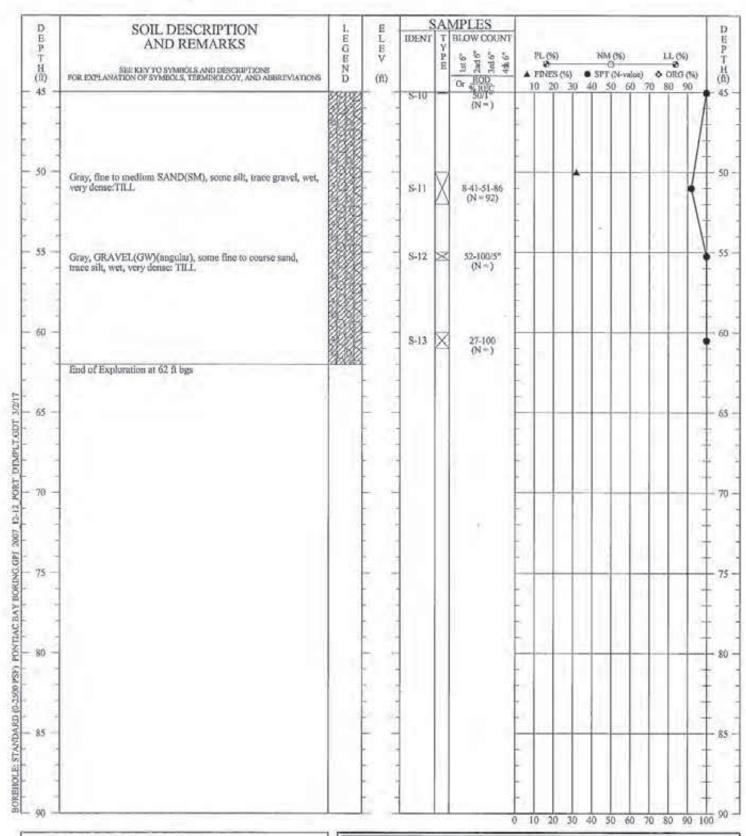
DRILLED: 11/13/2016 to 11/14/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





Barge CME-450 RIG TYPE:

METHOD: Rotary Wash with Water (Cased)

HOLE DIAM .:

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

# GEOTECHNICAL BORING RECORD

BORING NO .: SB-505

DRILLED: 11/13/2016 to 11/14/2016

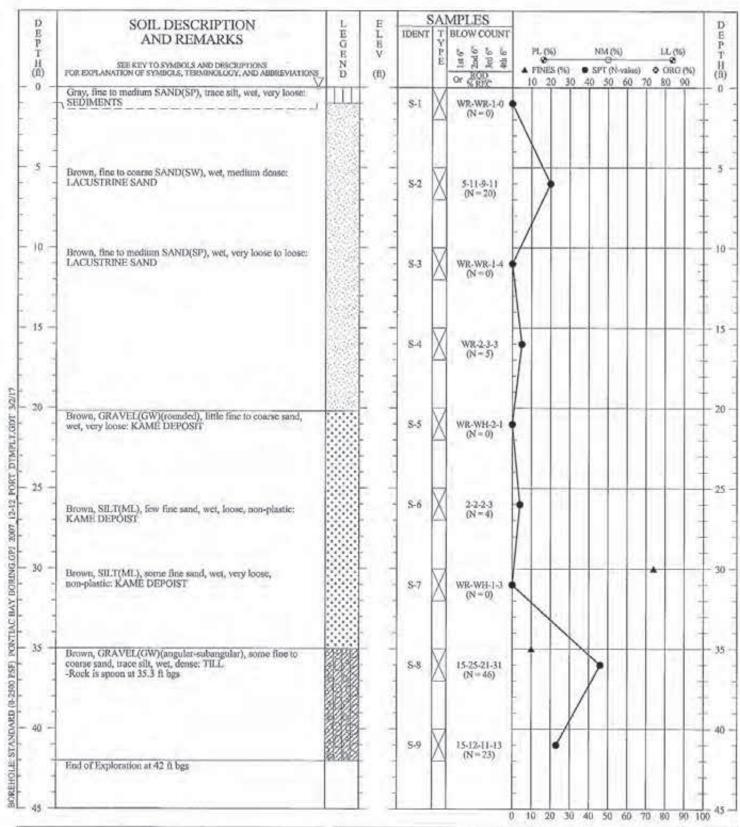
PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY PROJECT NO .: 3611161193.03

PAGE 2 OF 2

THIS BORING RECORD PRESENTS A REASONABLE INTERPRETATION OF THE SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS MAY DIFFER. STRATA INTERFACES (AS SHOWN) ARE APPROXIMATE. ACTUAL TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.





RIG TYPE: Barge CME-450
METHOD: Rotary Wash with Water (Cased)

HOLE DIAM: 4"

SPTs: 140 lb auto hammer

REMARKS: Boring was backfilled with cement grout. Soil cuttings

and water were placed in drums.

LOGGED BY: JC CHECKED BY/DATE: JB/

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#### GEOTECHNICAL BORING RECORD

BORING NO.: SB-506

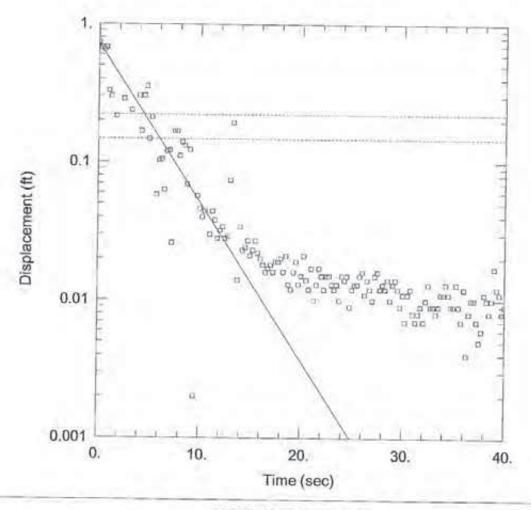
DRILLED: 11/15/2016

PROJECT: Saranac Lake Gas Company

LOCATION: Saranac Lake, NY

PROJECT NO.: 3611161193.03





Data Set: P:\...\MW-104 Br RAL.agt

Date: 04/12/17

Time: 09:08:47

# PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: MW-104 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

# WELL DATA (MW-104)

Initial Displacement: 0.736 ft

Total Well Penetration Depth: 12.88 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 12.88 ft

Screen Length: 10. ft Well Radius: 0.09375 ft

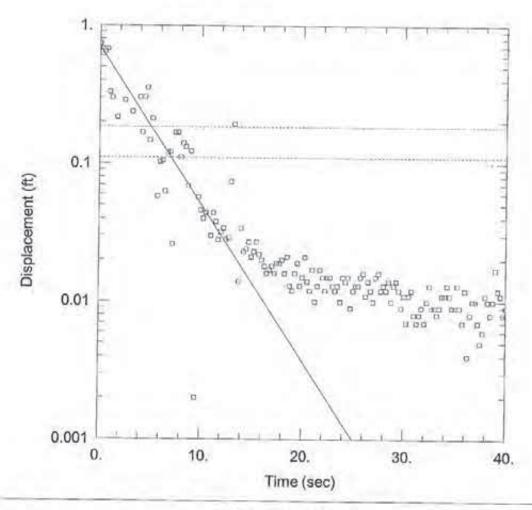
# SOLUTION

Aquifer Model: Unconfined

K = 6.063 ft/day

Solution Method: Bouwer-Rice

y0 = 0.72 ft



Data Set: P:\...\MW-104 Hv\_RAL.aqt

Date: 04/12/17

Time: 09:09:42

# PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: MW-104 Test Date: 04/04/2017

# AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

# WELL DATA (MW-104)

Initial Displacement: 0.736 ft

Total Well Penetration Depth: 12.88 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 12.88 ft

Screen Length: 10. ft Well Radius: 0.09375 ft

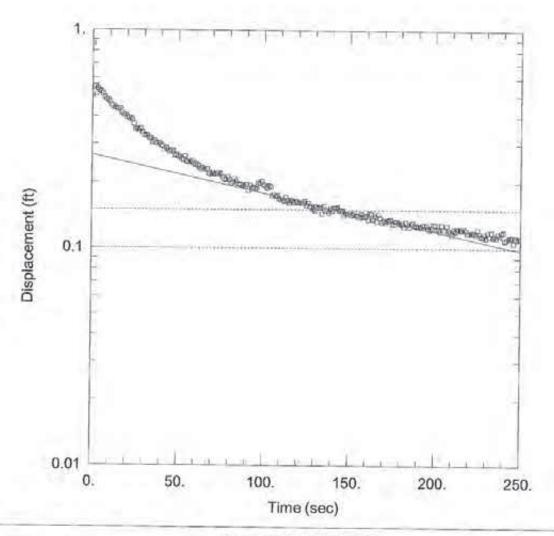
#### SOLUTION

Aquifer Model: Unconfined

K = 8.64 ft/day

Solution Method: Hvorslev

y0 = 0.6981 ft



Data Set: P:\...\MW-106 Br\_RAL.aqt

Date: 04/12/17

Time: 09:10:08

# PROJECT INFORMATION

Company: Amec FW

Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: MW-106 Test Date: 1/22/2017

# AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (MW-106)

Initial Displacement: 0.5 ft

Total Well Penetration Depth: 12.98 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 12.98 ft

Screen Length: 10. ft Well Radius: 0.09375 ft

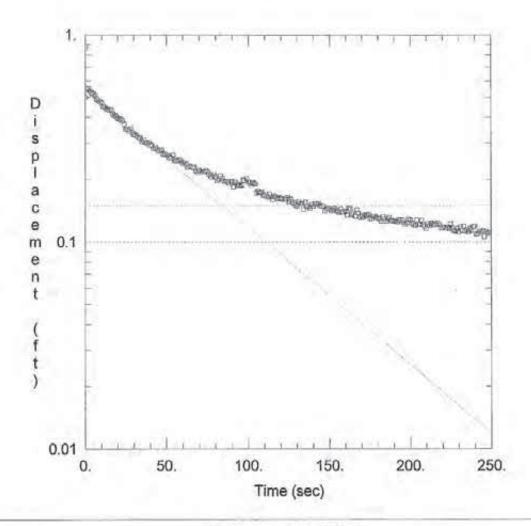
# SOLUTION

Aquifer Model: Unconfined

 $K = 0.09776 \, \text{ft/day}$ 

Solution Method: Bouwer-Rice

y0 = 0.2666 ft



Data Set: J:\...\MW-106 Br\_RAL.aqt

Date: 04/11/17

Time: 17:00:05

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: MW-106 Test Date: 1/22/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (MW-106)

Initial Displacement: 0.5 ft

Total Well Penetration Depth: 12.98 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 12.98 ft

Screen Length: 10. ft Well Radius: 0.09375 ft

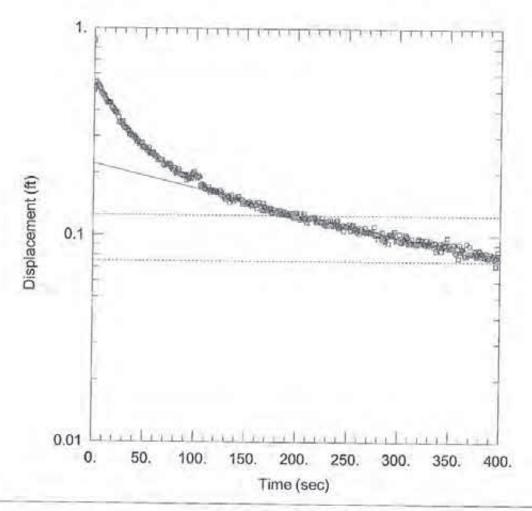
#### SOLUTION

Aquifer Model: Unconfined

K = 0.3712 ft/day

Solution Method: Bouwer-Rice

y0 = 0.5412 ft



Data Set: P:\...\MW-106 Hv RAL.agt

Date: 04/12/17

Time: 09:10:36

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: MW-106 Test Date: 1/22/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

# WELL DATA (MW-106)

Initial Displacement: 0.5 ft

Total Well Penetration Depth: 12.98 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 12.98 ft

Screen Length: 10. ft Well Radius: 0.09375 ft

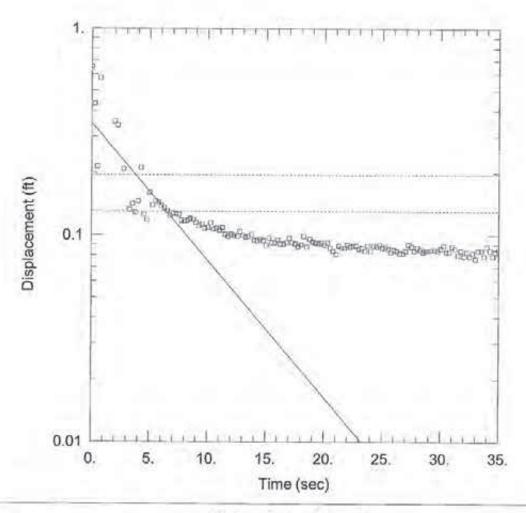
#### SOLUTION

Aquifer Model: Unconfined

K = 0.09551 ft/day

Solution Method: Hvorslev

y0 = 0.222 ft



Data Set: P:\...\PZ-301 Br RAL.aqt

Date: 04/12/17

Time: 09:11:02

# PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: PZ-301 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (PZ-301)

Initial Displacement: 0.652 ft

Total Well Penetration Depth: 8.87 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 8.87 ft

Screen Length: 8.87 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

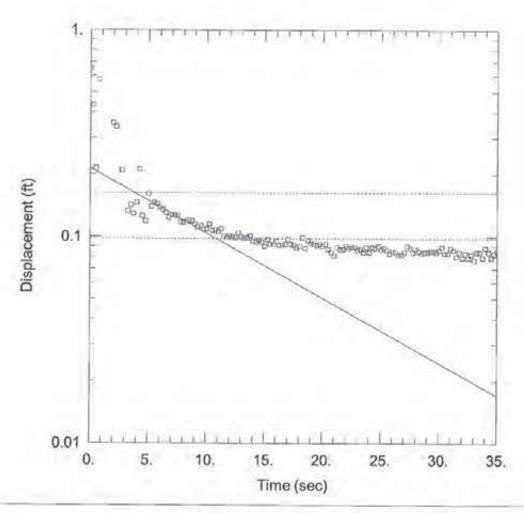
#### SOLUTION

Aquifer Model: Unconfined

K = 8.654 ft/day

Solution Method: Bouwer-Rice

y0 = 0.3485 ft



Data Set: P:\...\PZ-301 Hv RAL.agt

Date: 04/12/17

Time: 09:11:32

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03

Location: Saranac Lake, NY

Test Well: PZ-301 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (PZ-301)

Initial Displacement: 0.652 ft

Total Well Penetration Depth: 8.87 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 8.87 ft

Screen Length: 8.87 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

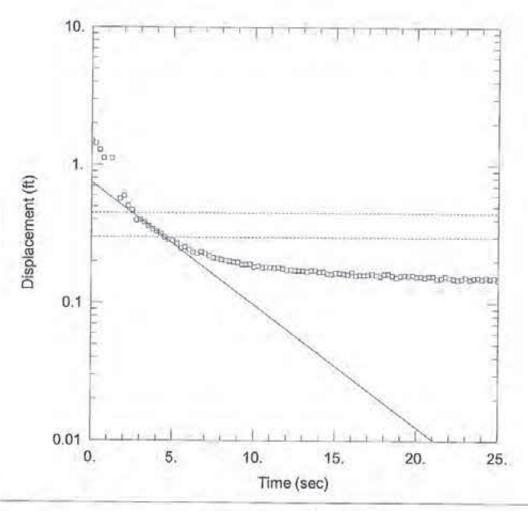
#### SOLUTION

Aquifer Model: Unconfined

K = 6.181 ft/day

Solution Method: Hvorslev

y0 = 0.2147 ft



Data Set: P:\...\PZ-301 Rising Br\_RAL.aqt

Date: 04/12/17

Time: 09:11:56

## PROJECT INFORMATION

Company: Amec FW

Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY Test Well: PZ-301 Rising Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (PZ-301)

Initial Displacement: 1.496 ft

Total Well Penetration Depth: 8.87 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 8.87 ft

Screen Length: 8.87 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

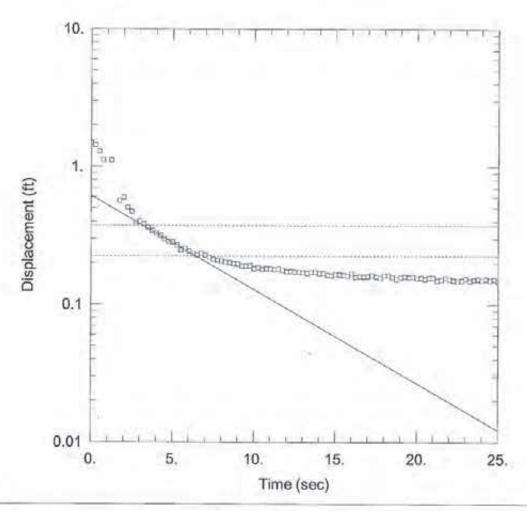
#### SOLUTION

Aquifer Model: Unconfined

K = 11.59 ft/day

Solution Method: Bouwer-Rice

y0 = 0.7478 ft



Data Set: P:\...\PZ-301 Rising Hv RAL.aqt

Date: 04/12/17 Time: 09:12:36

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY Test Well: PZ-301 Rising Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (PZ-301)

Initial Displacement: 1.496 ft

Total Well Penetration Depth: 8.87 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 8.87 ft

Screen Length: 8.87 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

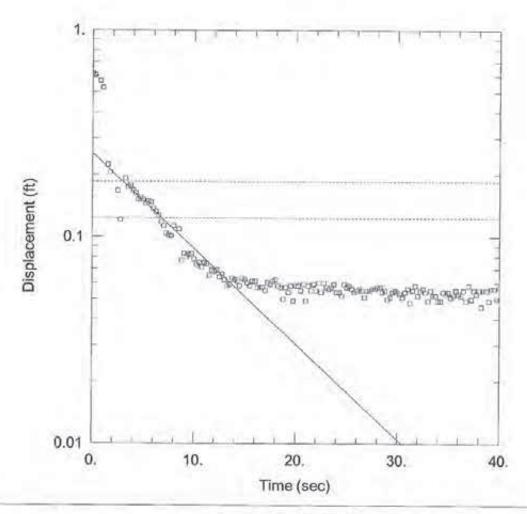
#### SOLUTION

Aquifer Model: Unconfined

K = 13.38 ft/day

Solution Method: Hvorslev

y0 = 0.6149 ft



Data Set: P:\...\PZ-302 Br RAL.agt

Date: 04/12/17

Time: 09:13:02

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: PZ-302 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

# WELL DATA (PZ-302)

Initial Displacement: 0.616 ft

Total Well Penetration Depth: 6.75 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 6.75 ft

Screen Length: 6.75 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

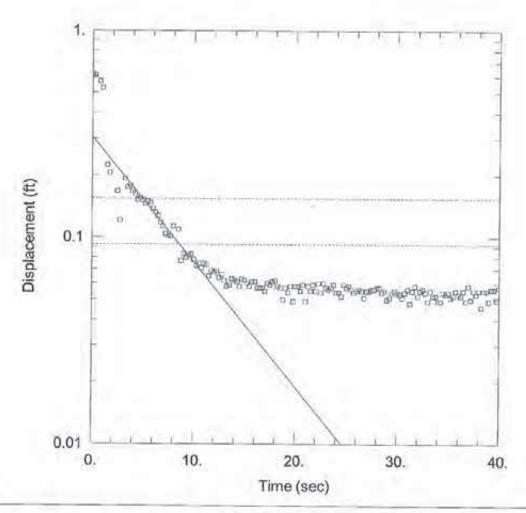
#### SOLUTION

Aquifer Model: Unconfined

K = 7.316 ft/day

Solution Method: Bouwer-Rice

y0 = 0.2537 ft



Data Set: P:\...\PZ-302 Hv\_RAL.aqt

Date: 04/12/17

Time: 09:13:25

#### PROJECT INFORMATION

Company: Amec FW

Client: NYSDEC Project: 3611161193.03

Location: Saranac Lake, NY

Test Well: PZ-302 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (PZ-302)

Initial Displacement: 0.616 ft

Total Well Penetration Depth: 6.75 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 6.75 ft

Screen Length: 6.75 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

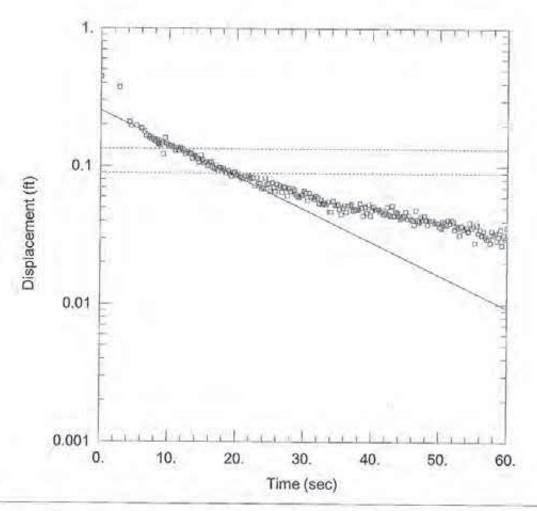
#### SOLUTION

Aquifer Model: Unconfined

K = 14.7 ft/day

Solution Method: Hvorslev

y0 = 0.3068 ft



Data Set: P:\...\PZ-304 Br RAL.agt

Date: 04/12/17

Time: 09:13:49

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: PZ-304 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

# WELL DATA (PZ-304)

Initial Displacement: 0.445 ft

Total Well Penetration Depth: 6.96 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 6.96 ft

Screen Length: 6.96 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

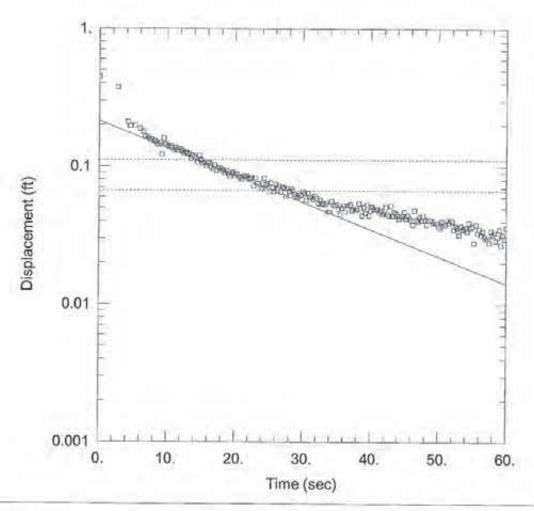
# SOLUTION

Aquifer Model: Unconfined

K = 3.707 ft/day

Solution Method: Bouwer-Rice

y0 = 0.2539 ft



Data Set: P:\...\PZ-304 Hv RAL.agt

Date: 04/12/17

Time: 09:14:14

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: PZ-304 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (PZ-304)

Initial Displacement: 0.445 ft

Total Well Penetration Depth: 6.96 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 6.96 ft

Screen Length: 6.96 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

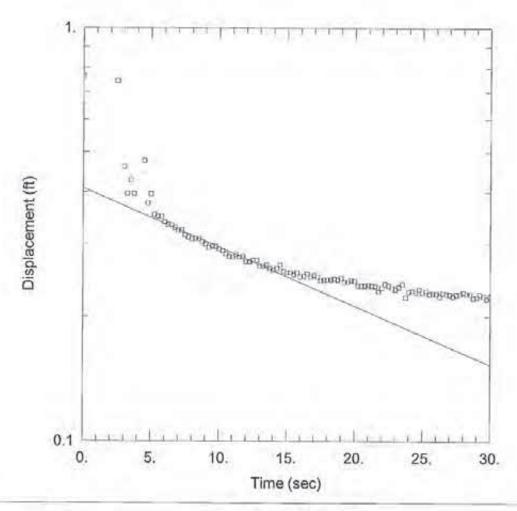
#### SOLUTION

Aquifer Model: Unconfined

K = 4.659 ft/day

Solution Method: Hvorslev

y0 = 0.2132 ft



Data Set: P:\...\PZ-337 Br RAL.aqt

Date: 04/12/17

Time: 09:14:33

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03 Location: Saranac Lake, NY

Test Well: PZ-337 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

## WELL DATA (PZ-337)

Initial Displacement: 0.765 ft

Total Well Penetration Depth: 6.49 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 6.49 ft

Screen Length: 6.49 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

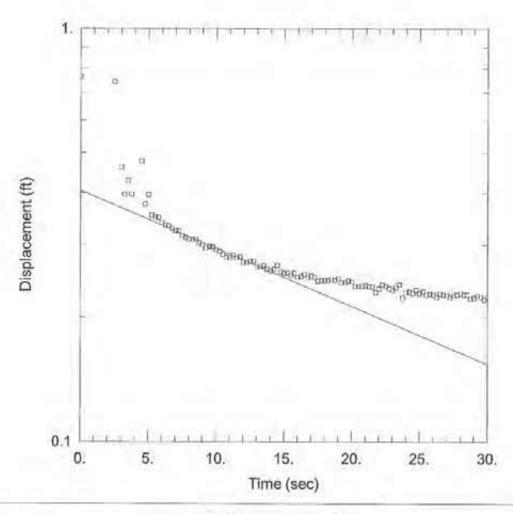
#### SOLUTION

Aquifer Model: Unconfined

K = 2.321 ft/day

Solution Method: Bouwer-Rice

y0 = 0.4093 ft



Data Set: P:\...\PZ-337 Hv RAL.aqt

Date: 04/12/17

Time: 09:14:52

#### PROJECT INFORMATION

Company: Amec FW Client: NYSDEC

Project: 3611161193.03

Location: Saranac Lake, NY

Test Well: PZ-337 Test Date: 04/04/2017

#### AQUIFER DATA

Saturated Thickness: 50. ft

Anisotropy Ratio (Kz/Kr): 1.

#### WELL DATA (PZ-337)

Initial Displacement: 0.765 ft

Total Well Penetration Depth: 6.49 ft

Casing Radius: 0.04167 ft

Static Water Column Height: 6.49 ft

Screen Length: 6.49 ft Well Radius: 0.09375 ft Gravel Pack Porosity: 0.3

#### SOLUTION

Aquifer Model: Unconfined

K = 3.505 ft/day

Solution Method: Hvorslev

y0 = 0.4056 ft

#### <u>Field Descriptions of Samples for</u> Former Manufactured Gas Plant (MGP) Sites

#### SOIL SAMPLE DESCRIPTIONS

It is important that descriptive qualifiers are consistently used to characterize degree and nature of contaminant impacts and visual-manual soil classification. The following presents some examples of descriptive qualifiers.

#### SOIL LOGGING

- All soils are to be logged using the **Unified Soil Classification** (ASTM D 2488 field descriptions)
- **PID or FID** used to screen all soil samples (Jar Headspace method) maximum readings should be recorded and included on the logs. The PID/FID should be calibrated daily at a minimum
- Moisture terms are: Dry, Moist, and Wet
- **Color terms** use geotechnical color charts colors may be combined: e.g. red-brown. Color terms should be used to describe the "natural color" of the sample as opposed to staining caused by contamination (see below)
- Log of each sample interval should be prepared as follows:

[Coarse Grained Example] NARROWLY GRADED SAND (SP); mostly fine sand; <5% fines; red-brown, moist, environmental/depositional/geologic descriptions.

[Fine Grained Example] SANDY SILT (ML); heterogeneous till structure, nonplastic, ~30% fine to coarse, subangular sand; ~10% subangular fine gravel, max. size ~ 10 mm; brown; environmental/depositional/geologic descriptions.

- **Representativeness** Soil logs should include particular notes if the field representative believes that there is a possibility that the soil sample being described is not representative of the interval sampled.
- Intervals for Description if using a 2' (split spoon) or 4' (Macro-core) long sampler the field description should not necessarily be for the entire sample interval. It is important to look for, identify, and describe small-scale units and changes within each sample interval.

#### **DESCRIPTION OF CONTAMINANTS**

#### **Visible Contamination Descriptors**

- **Sheen** iridescent petroleum-like sheen. Not to be used to describe a "bacterial sheen", which can be distinguished by its tendency to break up on the water surface at angles, whereas a petroleum sheen will be continuous and will not break up. A field test for sheen is to put a soil sample in a jar of water and shake the sample (jar shake test), then observe the presence/absence of sheen on the surface of the water in the jar.
- **Stained** used w/ color (i.e. black or brown stained) to indicate that the soil matrix is stained a color other than the natural (unimpacted) color of the soil.
- **Coated** soil grains are coated with tar/free product there is not sufficient free-phase material present to saturate the pore spaces. The degree of coating should be described as light, moderate, or heavy.
- **Blebs** observed discrete sphericals of tar/free product but for the most part the soil matrix was not visibly contaminated or saturated. Typically this is residual product. The estimated size and number of blebs should be reported.
- **Saturated** the entirety of the pore space for a sample is saturated with the tar/free product. Care should be taken to ensure that you're not observing water saturating the pore spaces if you use this term. Depending on viscosity, tar/free-phase saturated materials may freely drain from a soil sample.
- Oil Used to characterize free and/or residual product that exhibits a distinct fuel oil or diesel fuel like odor; distinctly different from MGP-related odors/impacts.
- **Tar** Used to describe free and/or residual product that exhibits a distinct "coal tar" type odor (e.g. naphthalene-like odor). Colors of product can be brown, black, reddish-brown, or gold.
- **Solid Tar** Used to describe product that is solid or semi-solid phase. The magnitude of the observed solid tar should be described (e.g. discrete granules or a solid layer).
- **Purifier Material** Purifier material is commonly brown/rust or blue/green wood chips or granular material. It is typically associated with a distinctive sulfur-like odor. Other colors may be present.

# **Olfactory Descriptors**

- Use terms such as "tar-like odor" or "naphthalene-like odor" or "fuel oil-like odor" that provide a qualitative description (opinion) as to the possible source of the odor.
- Use modifiers such as strong, moderate, faint to indicate intensity of the observed odor.

#### DNAPL/LNAPL

• A jar shake test should be performed to identify and determine whether observed tar/free phase product is either denser or lighter than water. In addition, MGP residues can include both light and dense phases - this test can help determine if both light and dense phase materials are present at a particular location.

**Viscosity of Free-Phase Product** – If free-phase product/tar is present a qualitative description of viscosity should be made. Use descriptors such as:

- Highly viscous (e.g. taffy-like)
- Viscous (e.g. No. 6 fuel oil or bunker crude like)
- Low viscosity (e.g. No. 2 fuel oil like)

#### GROUNDWATER SAMPLING OBSERVATIONS

• Any observations of sheen, blebs, free-phase product/tar, staining or coating of the sampling equipment, odor, etc. that made during sampling of groundwater are to be included in the groundwater sample collection log.

# Standard Colors for Reporting MGP Impacts

|                                       | RGB Color   | Auto Cad Index |
|---------------------------------------|-------------|----------------|
| TAR SATURATED                         | 255,0,0     | 10             |
| COATED MATERIAL, LENSES               | 255,0,255   | 210            |
| HARDENED TAR                          | 129,64,0    | 34             |
| BLEBS, GLOBS, SHEEN                   | 255,191,0   | 40             |
| STAINING, ODOR                        | 255,255,0   | 50             |
| PETROLEUM IMPACTS SATURATION & SHEENS | 0,191,255   | 140            |
| PETROLEUM IMPACTS STAINING & ODORS    | 170,234,255 | 141            |
| PURIFIER WASTE AND ODOR               | 0,0,255     | 170            |
| NO OBSERVED IMPACTS                   | 0,165,0     | 92             |

#### **APPENDIX E**

DATA USABILITY SUMMARY REPORT

# DATA USABILITY SUMMARY REPORT MARCH-APRIL 2017 SOIL SAMPLING EVENT SARANAC LAKE REMEDIAL DESIGN (RD) SARANAC LAKE SITE SARANAC LAKE, NEW YORK

#### 1.0 INTRODUCTION

Soil samples were collected at the Saranac Lake site in March and April 2017 and submitted to TestAmerica Laboratories, Inc., located in Amherst, New York (TestAmerica Buffalo) for analysis. Samples were analyzed by one or more of the following methods:

- Volatile Organic Compounds (VOC) by EPA Method 8260C
- Semivolatile Organic Compounds (SVOC) by EPA Method 8270D
- Petroleum Hydrocarbons by New York State Analytical Services Protocols (ASP) Method 310.13
- Percent Total Solids and Percent Moisture by Method ASTM Method D2216

Results were reported in the following sample delivery group (SDG):

• 480-115393-1

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following Tables:

- Table 1 Summary of Samples and Analytical Methods
- Table 2 Summary of Analytical Results
- Table 3 Summary of Qualification Actions

Laboratory deliverables included:

 Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations as applicable. A table of the project control limits is presented in Attachment A. Applicable laboratory QC summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes (if applicable)
- Target Analyte Identification and Quantitation

- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2008) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit
 J = concentration is estimated
 UJ = target analyte is not detected and value is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

#### 2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review the majority of data meet the data quality objectives; however, the following potential limitations were identified:

- Naphthalene (41 µg/kg) was reported in the method blank associated with a subset of samples. The detection of naphthalene in sample 516008SB60704 was qualified estimated (J) based on professional judgment.
- Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved chromatographically in samples 516008SB60110 and 516008SB60606. The laboratory reported results as benzo(b)fluoranthene for both samples. Based on professional judgment the positive results for benzo(b)fluoranthene and nondetect results for benzo(k)fluoranthene were qualified estimated (J/UJ) in samples 516008SB60110 and 516008SB60606.
- The reporting limit for bromomethane in sample 516008SB61105 was qualified estimated (UJ) based on a low recovery in the associated LCS.
- Elevated reporting limits are reported for non-detect analytes in all samples due to high concentrations of target analytes.

#### 3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

There were no additional observations or quality control exceedances not specifically addressed above (Section 2.0) or included in Table 3. Unless presented in Table 3, sample results are interpreted to be usable as reported by the laboratory.

#### Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; June 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

U.S. Environmental Protection Agency (USEPA), 2008. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; USEPA Region II; HW-22; Revision 4; October 2008.

Data Validator: Julie Ricardi

May 10, 2017

Senior Review: Chris Ricardi, NRCC-EAC

May 11, 2017

# TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS DATA USABILITY SUMMARY REPORT MARCH-APRIL 2017 SOIL SAMPLING EVENT SARANAC LAKE REMEDIAL DESIGN (RD) SARANAC LAKE SITE SARANAC LAKE, NEW YORK

| SDG          | Location | Sample ID     | Sample Date |      | ethod Class<br>sis Method<br>Fraction<br>Qc Code |              | SVOCs<br>SW8270D<br>N<br>Param Count | Hydrocarbon FP<br>NY310.13<br>N | Solids<br>D2216<br>N |
|--------------|----------|---------------|-------------|------|--|--------------|--------------------------------------|---------------------------------|----------------------|
| 480-115393-1 | SB-601   | 516008SB60110 | 3/29/2017   | SOIL | FS   | rarani_count | 16                                   | Param_Count                     | Param_Count          |
| 480-115393-1 | SB-601   | 516008SB60115 | 3/29/2017   | SOIL | FS   |              | 16                                   |                                 | 2                    |
| 480-115393-1 | SB-602   | 516008SB60210 | 3/29/2017   | SOIL | FS   |              | 16                                   |                                 | 2                    |
| 480-115393-1 | SB-606   | 516008SB60606 | 3/29/2017   | SOIL | FS   |              | 16                                   |                                 | 2                    |
| 480-115393-1 | SB-607   | 516008SB60704 | 3/29/2017   | SOIL | FS   |              | 16                                   | 7                               | 2                    |
| 480-115393-1 | SB-611   | 516008SB61105 | 4/4/2017    | SOIL | FS   | 58           | 66                                   | 7                               | 2                    |

Notes:

FS = Field Sample

SED = Sediment

FP = Fingerprint

Count = Number of target analytes reported